API Reference

AWS Clean Rooms



API Version 2022-02-17

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AWS Clean Rooms: API Reference

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Table of Contents

Welcome **1**
Actions **2**
BatchGetCollaborationAnalysisTemplate 6
Request Syntax 6
URI Request Parameters 6
Request Body 6
Response Syntax 7
Response Elements 8
Errors 9
See Also 10
BatchGetSchema 11
Request Syntax 11
URI Request Parameters 11
Request Body 11
Response Syntax 12
Response Elements 13
Errors 14
See Also 15
BatchGetSchemaAnalysisRule 16
Request Syntax 16
URI Request Parameters 16
Request Body 16
Response Syntax 17
Response Elements 17
Errors 18
See Also 19
CreateAnalysisTemplate 20
Request Syntax 20
URI Request Parameters 20
Request Body 21
Response Syntax 23
Response Elements 24
Errors 24
See Also 26

CreateCollaboration ... 28
Request Syntax ... 28
URI Request Parameters ... 29
Request Body ... 30
Response Syntax ... 34
Response Elements ... 34
Errors ... 35
See Also ... 36
CreateCollaborationChangeRequest ... 37
Request Syntax ... 37
URI Request Parameters ... 37
Request Body ... 37
Response Syntax ... 38
Response Elements ... 38
Errors ... 39
See Also ... 40
CreateConfiguredAudienceModelAssociation ... 42
Request Syntax ... 42
URI Request Parameters ... 42
Request Body ... 42
Response Syntax ... 44
Response Elements ... 45
Errors ... 45
See Also ... 47
CreateConfiguredTable ... 48
Request Syntax ... 48
URI Request Parameters ... 48
Request Body ... 48
Response Syntax ... 50
Response Elements ... 51
Errors ... 51
See Also ... 53
CreateConfiguredTableAnalysisRule ... 54
Request Syntax ... 54
URI Request Parameters ... 54
Request Body ... 54

Response Syntax ... 55
Response Elements ... 55
Errors ... 56
See Also ... 57
CreateConfiguredTableAssociation ... 59
Request Syntax ... 59
URI Request Parameters ... 59
Request Body ... 59
Response Syntax ... 61
Response Elements ... 62
Errors ... 62
See Also ... 64
CreateConfiguredTableAssociationAnalysisRule ... 65
Request Syntax ... 65
URI Request Parameters ... 65
Request Body ... 66
Response Syntax ... 66
Response Elements ... 67
Errors ... 67
See Also ... 68
CreateIdMappingTable ... 70
Request Syntax ... 70
URI Request Parameters ... 70
Request Body ... 70
Response Syntax ... 72
Response Elements ... 73
Errors ... 73
See Also ... 75
CreateIdNamespaceAssociation ... 76
Request Syntax ... 76
URI Request Parameters ... 76
Request Body ... 76
Response Syntax ... 78
Response Elements ... 78
Errors ... 79
See Also ... 81

CreateIntermediateTable ... 82
Request Syntax ... 82
URI Request Parameters ... 82
Request Body ... 82
Response Syntax ... 84
Response Elements ... 87
Errors ... 87
See Also ... 89
CreateIntermediateTableAnalysisRule ... 90
Request Syntax ... 90
URI Request Parameters ... 90
Request Body ... 90
Response Syntax ... 91
Response Elements ... 91
Errors ... 92
See Also ... 93
CreateMembership ... 95
Request Syntax ... 95
URI Request Parameters ... 96
Request Body ... 96
Response Syntax ... 98
Response Elements ... 99
Errors ... 100
See Also ... 101
CreatePrivacyBudgetTemplate ... 103
Request Syntax ... 103
URI Request Parameters ... 103
Request Body ... 103
Response Syntax ... 105
Response Elements ... 105
Errors ... 106
See Also ... 107
DeleteAnalysisTemplate ... 109
Request Syntax ... 109
URI Request Parameters ... 109
Request Body ... 109

Response Syntax ... 109
Response Elements ... 110
Errors ... 110
See Also ... 111
DeleteCollaboration ... 112
Request Syntax ... 112
URI Request Parameters ... 112
Request Body ... 112
Response Syntax ... 112
Response Elements ... 112
Errors ... 112
See Also ... 113
DeleteConfiguredAudienceModelAssociation ... 115
Request Syntax ... 115
URI Request Parameters ... 115
Request Body ... 115
Response Syntax ... 115
Response Elements ... 116
Errors ... 116
See Also ... 117
DeleteConfiguredTable ... 118
Request Syntax ... 118
URI Request Parameters ... 118
Request Body ... 118
Response Syntax ... 118
Response Elements ... 118
Errors ... 118
See Also ... 120
DeleteConfiguredTableAnalysisRule ... 121
Request Syntax ... 121
URI Request Parameters ... 121
Request Body ... 121
Response Syntax ... 121
Response Elements ... 122
Errors ... 122
See Also ... 123

DeleteConfiguredTableAssociation ... 125
Request Syntax ... 125
URI Request Parameters ... 125
Request Body ... 125
Response Syntax ... 125
Response Elements ... 126
Errors ... 126
See Also ... 127
DeleteConfiguredTableAssociationAnalysisRule ... 129
Request Syntax ... 129
URI Request Parameters ... 129
Request Body ... 130
Response Syntax ... 130
Response Elements ... 130
Errors ... 130
See Also ... 131
DeleteIdMappingTable ... 133
Request Syntax ... 133
URI Request Parameters ... 133
Request Body ... 133
Response Syntax ... 133
Response Elements ... 134
Errors ... 134
See Also ... 135
DeleteIdNamespaceAssociation ... 136
Request Syntax ... 136
URI Request Parameters ... 136
Request Body ... 136
Response Syntax ... 136
Response Elements ... 137
Errors ... 137
See Also ... 138
DeleteIntermediateTable ... 139
Request Syntax ... 139
URI Request Parameters ... 139
Request Body ... 139

Response Syntax ... 139
Response Elements ... 140
Errors ... 140
See Also ... 141
DeleteIntermediateTableAnalysisRule ... 143
Request Syntax ... 143
URI Request Parameters ... 143
Request Body ... 144
Response Syntax ... 144
Response Elements ... 144
Errors ... 144
See Also ... 145
DeleteMember ... 147
Request Syntax ... 147
URI Request Parameters ... 147
Request Body ... 147
Response Syntax ... 147
Response Elements ... 148
Errors ... 148
See Also ... 149
DeleteMembership ... 151
Request Syntax ... 151
URI Request Parameters ... 151
Request Body ... 151
Response Syntax ... 151
Response Elements ... 151
Errors ... 151
See Also ... 153
DeletePrivacyBudgetTemplate ... 154
Request Syntax ... 154
URI Request Parameters ... 154
Request Body ... 154
Response Syntax ... 154
Response Elements ... 155
Errors ... 155
See Also ... 156

DisallowIntermediateTable ... 157
Request Syntax ... 157
URI Request Parameters ... 157
Request Body ... 157
Response Syntax ... 158
Response Elements ... 158
Errors ... 158
See Also ... 160
GetAnalysisLogExport ... 161
Request Syntax ... 161
URI Request Parameters ... 161
Request Body ... 161
Response Syntax ... 162
Response Elements ... 162
Errors ... 163
See Also ... 164
GetAnalysisTemplate ... 165
Request Syntax ... 165
URI Request Parameters ... 165
Request Body ... 165
Response Syntax ... 165
Response Elements ... 167
Errors ... 167
See Also ... 168
GetCollaboration ... 169
Request Syntax ... 169
URI Request Parameters ... 169
Request Body ... 169
Response Syntax ... 169
Response Elements ... 170
Errors ... 170
See Also ... 171
GetCollaborationAnalysisTemplate ... 173
Request Syntax ... 173
URI Request Parameters ... 173
Request Body ... 173

Response Syntax ... 173
Response Elements ... 175
Errors ... 175
See Also ... 176
GetCollaborationChangeRequest ... 177
Request Syntax ... 177
URI Request Parameters ... 177
Request Body ... 177
Response Syntax ... 177
Response Elements ... 178
Errors ... 178
See Also ... 180
GetCollaborationConfiguredAudienceModelAssociation ... 181
Request Syntax ... 181
URI Request Parameters ... 181
Request Body ... 181
Response Syntax ... 181
Response Elements ... 182
Errors ... 182
See Also ... 183
GetCollaborationIdNamespaceAssociation ... 185
Request Syntax ... 185
URI Request Parameters ... 185
Request Body ... 185
Response Syntax ... 185
Response Elements ... 186
Errors ... 186
See Also ... 188
GetCollaborationPrivacyBudgetTemplate ... 189
Request Syntax ... 189
URI Request Parameters ... 189
Request Body ... 189
Response Syntax ... 189
Response Elements ... 190
Errors ... 190
See Also ... 191

GetConfiguredAudienceModelAssociation ... 193
Request Syntax ... 193
URI Request Parameters ... 193
Request Body ... 193
Response Syntax ... 193
Response Elements ... 194
Errors ... 194
See Also ... 195
GetConfiguredTable ... 197
Request Syntax ... 197
URI Request Parameters ... 197
Request Body ... 197
Response Syntax ... 197
Response Elements ... 198
Errors ... 198
See Also ... 199
GetConfiguredTableAnalysisRule ... 201
Request Syntax ... 201
URI Request Parameters ... 201
Request Body ... 201
Response Syntax ... 201
Response Elements ... 202
Errors ... 202
See Also ... 203
GetConfiguredTableAssociation ... 205
Request Syntax ... 205
URI Request Parameters ... 205
Request Body ... 205
Response Syntax ... 205
Response Elements ... 206
Errors ... 206
See Also ... 208
GetConfiguredTableAssociationAnalysisRule ... 209
Request Syntax ... 209
URI Request Parameters ... 209
Request Body ... 210

Response Syntax ... 210
Response Elements ... 210
Errors ... 210
See Also ... 212
GetIdMappingTable ... 213
Request Syntax ... 213
URI Request Parameters ... 213
Request Body ... 213
Response Syntax ... 213
Response Elements ... 214
Errors ... 215
See Also ... 216
GetIdNamespaceAssociation ... 217
Request Syntax ... 217
URI Request Parameters ... 217
Request Body ... 217
Response Syntax ... 217
Response Elements ... 218
Errors ... 218
See Also ... 220
GetIntermediateTable ... 221
Request Syntax ... 221
URI Request Parameters ... 221
Request Body ... 221
Response Syntax ... 221
Response Elements ... 224
Errors ... 224
See Also ... 226
GetIntermediateTableAnalysisRule ... 227
Request Syntax ... 227
URI Request Parameters ... 227
Request Body ... 227
Response Syntax ... 228
Response Elements ... 228
Errors ... 228
See Also ... 229

GetMembership ... 231
Request Syntax ... 231
URI Request Parameters ... 231
Request Body ... 231
Response Syntax ... 231
Response Elements ... 232
Errors ... 233
See Also ... 234
GetPrivacyBudgetTemplate ... 235
Request Syntax ... 235
URI Request Parameters ... 235
Request Body ... 235
Response Syntax ... 235
Response Elements ... 236
Errors ... 236
See Also ... 237
GetProtectedJob ... 239
Request Syntax ... 239
URI Request Parameters ... 239
Request Body ... 239
Response Syntax ... 239
Response Elements ... 240
Errors ... 241
See Also ... 242
GetProtectedQuery ... 243
Request Syntax ... 243
URI Request Parameters ... 243
Request Body ... 243
Response Syntax ... 243
Response Elements ... 245
Errors ... 245
See Also ... 246
GetSchema ... 247
Request Syntax ... 247
URI Request Parameters ... 247
Request Body ... 247

Response Syntax ... 247
Response Elements ... 249
Errors ... 249
See Also ... 250
GetSchemaAnalysisRule ... 251
Request Syntax ... 251
URI Request Parameters ... 251
Request Body ... 252
Response Syntax ... 252
Response Elements ... 252
Errors ... 252
See Also ... 254
ListAnalysisLogExports ... 255
Request Syntax ... 255
URI Request Parameters ... 255
Request Body ... 256
Response Syntax ... 256
Response Elements ... 256
Errors ... 257
See Also ... 258
ListAnalysisTemplates ... 259
Request Syntax ... 259
URI Request Parameters ... 259
Request Body ... 259
Response Syntax ... 260
Response Elements ... 260
Errors ... 261
See Also ... 262
ListCollaborationAnalysisTemplates ... 263
Request Syntax ... 263
URI Request Parameters ... 263
Request Body ... 263
Response Syntax ... 264
Response Elements ... 264
Errors ... 265
See Also ... 266

ListCollaborationChangeRequests ... 267
Request Syntax ... 267
URI Request Parameters ... 267
Request Body ... 268
Response Syntax ... 268
Response Elements ... 268
Errors ... 269
See Also ... 270
ListCollaborationConfiguredAudienceModelAssociations ... 271
Request Syntax ... 271
URI Request Parameters ... 271
Request Body ... 271
Response Syntax ... 272
Response Elements ... 272
Errors ... 273
See Also ... 274
ListCollaborationIdNamespaceAssociations ... 275
Request Syntax ... 275
URI Request Parameters ... 275
Request Body ... 275
Response Syntax ... 276
Response Elements ... 276
Errors ... 277
See Also ... 278
ListCollaborationPrivacyBudgets ... 279
Request Syntax ... 279
URI Request Parameters ... 279
Request Body ... 280
Response Syntax ... 280
Response Elements ... 281
Errors ... 281
See Also ... 282
ListCollaborationPrivacyBudgetTemplates ... 284
Request Syntax ... 284
URI Request Parameters ... 284
Request Body ... 284

Response Syntax ... 285
Response Elements ... 285
Errors ... 286
See Also ... 287
ListCollaborations ... 288
Request Syntax ... 288
URI Request Parameters ... 288
Request Body ... 288
Response Syntax ... 288
Response Elements ... 289
Errors ... 289
See Also ... 290
ListConfiguredAudienceModelAssociations ... 292
Request Syntax ... 292
URI Request Parameters ... 292
Request Body ... 292
Response Syntax ... 293
Response Elements ... 293
Errors ... 294
See Also ... 295
ListConfiguredTableAssociations ... 296
Request Syntax ... 296
URI Request Parameters ... 296
Request Body ... 296
Response Syntax ... 297
Response Elements ... 297
Errors ... 298
See Also ... 299
ListConfiguredTables ... 300
Request Syntax ... 300
URI Request Parameters ... 300
Request Body ... 300
Response Syntax ... 300
Response Elements ... 301
Errors ... 301
See Also ... 302

ListIdMappingTables ... 304
Request Syntax ... 304
URI Request Parameters ... 304
Request Body ... 304
Response Syntax ... 305
Response Elements ... 305
Errors ... 306
See Also ... 307
ListIdNamespaceAssociations ... 308
Request Syntax ... 308
URI Request Parameters ... 308
Request Body ... 308
Response Syntax ... 309
Response Elements ... 309
Errors ... 310
See Also ... 311
ListIntermediateTables ... 312
Request Syntax ... 312
URI Request Parameters ... 312
Request Body ... 312
Response Syntax ... 313
Response Elements ... 313
Errors ... 314
See Also ... 315
ListIntermediateTableVersions ... 316
Request Syntax ... 316
URI Request Parameters ... 316
Request Body ... 317
Response Syntax ... 317
Response Elements ... 317
Errors ... 318
See Also ... 319
ListMembers ... 320
Request Syntax ... 320
URI Request Parameters ... 320
Request Body ... 320

Response Syntax ... 321
Response Elements ... 322
Errors ... 322
See Also ... 323
ListMemberships ... 325
Request Syntax ... 325
URI Request Parameters ... 325
Request Body ... 325
Response Syntax ... 325
Response Elements ... 326
Errors ... 327
See Also ... 328
ListPrivacyBudgets ... 329
Request Syntax ... 329
URI Request Parameters ... 329
Request Body ... 330
Response Syntax ... 330
Response Elements ... 330
Errors ... 331
See Also ... 332
ListPrivacyBudgetTemplates ... 334
Request Syntax ... 334
URI Request Parameters ... 334
Request Body ... 334
Response Syntax ... 335
Response Elements ... 335
Errors ... 336
See Also ... 337
ListProtectedJobs ... 338
Request Syntax ... 338
URI Request Parameters ... 338
Request Body ... 339
Response Syntax ... 339
Response Elements ... 339
Errors ... 340
See Also ... 341

ListProtectedQueries ... 342
Request Syntax ... 342
URI Request Parameters ... 342
Request Body ... 343
Response Syntax ... 343
Response Elements ... 343
Errors ... 344
See Also ... 345
ListSchemas ... 346
Request Syntax ... 346
URI Request Parameters ... 346
Request Body ... 347
Response Syntax ... 347
Response Elements ... 347
Errors ... 348
See Also ... 349
ListTagsForResource ... 350
Request Syntax ... 350
URI Request Parameters ... 350
Request Body ... 350
Response Syntax ... 350
Response Elements ... 350
Errors ... 351
See Also ... 352
PopulateIdMappingTable ... 353
Request Syntax ... 353
URI Request Parameters ... 353
Request Body ... 353
Response Syntax ... 354
Response Elements ... 354
Errors ... 355
See Also ... 356
PopulateIntermediateTable ... 358
Request Syntax ... 358
URI Request Parameters ... 358
Request Body ... 359

Response Syntax ... 359
Response Elements ... 360
Errors ... 360
See Also ... 362
PreviewPrivacyImpact ... 364
Request Syntax ... 364
URI Request Parameters ... 364
Request Body ... 364
Response Syntax ... 365
Response Elements ... 365
Errors ... 365
See Also ... 366
StartAnalysisLogExport ... 368
Request Syntax ... 368
URI Request Parameters ... 369
Request Body ... 369
Response Syntax ... 370
Response Elements ... 371
Errors ... 371
See Also ... 372
StartProtectedJob ... 374
Request Syntax ... 374
URI Request Parameters ... 374
Request Body ... 374
Response Syntax ... 376
Response Elements ... 376
Errors ... 377
See Also ... 378
StartProtectedQuery ... 380
Request Syntax ... 380
URI Request Parameters ... 380
Request Body ... 381
Response Syntax ... 382
Response Elements ... 383
Errors ... 383
See Also ... 385

TagResource ... 386
Request Syntax ... 386
URI Request Parameters ... 386
Request Body ... 386
Response Syntax ... 387
Response Elements ... 387
Errors ... 387
See Also ... 388
UntagResource ... 389
Request Syntax ... 389
URI Request Parameters ... 389
Request Body ... 389
Response Syntax ... 389
Response Elements ... 390
Errors ... 390
See Also ... 390
UpdateAnalysisTemplate ... 392
Request Syntax ... 392
URI Request Parameters ... 392
Request Body ... 392
Response Syntax ... 393
Response Elements ... 394
Errors ... 394
See Also ... 395
UpdateCollaboration ... 397
Request Syntax ... 397
URI Request Parameters ... 397
Request Body ... 397
Response Syntax ... 398
Response Elements ... 399
Errors ... 399
See Also ... 400
UpdateCollaborationChangeRequest ... 402
Request Syntax ... 402
URI Request Parameters ... 402
Request Body ... 403

Response Syntax ... 403
Response Elements ... 404
Errors ... 404
See Also ... 406
UpdateConfiguredAudienceModelAssociation ... 407
Request Syntax ... 407
URI Request Parameters ... 407
Request Body ... 408
Response Syntax ... 408
Response Elements ... 409
Errors ... 409
See Also ... 410
UpdateConfiguredTable ... 412
Request Syntax ... 412
URI Request Parameters ... 412
Request Body ... 412
Response Syntax ... 414
Response Elements ... 415
Errors ... 415
See Also ... 417
UpdateConfiguredTableAnalysisRule ... 418
Request Syntax ... 418
URI Request Parameters ... 418
Request Body ... 418
Response Syntax ... 419
Response Elements ... 419
Errors ... 419
See Also ... 421
UpdateConfiguredTableAssociation ... 423
Request Syntax ... 423
URI Request Parameters ... 423
Request Body ... 423
Response Syntax ... 424
Response Elements ... 425
Errors ... 425
See Also ... 427

UpdateConfiguredTableAssociationAnalysisRule 428
Request Syntax 428
URI Request Parameters 428
Request Body 429
Response Syntax 429
Response Elements 429
Errors 430
See Also 431
UpdateIdMappingTable 433
Request Syntax 433
URI Request Parameters 433
Request Body 433
Response Syntax 434
Response Elements 435
Errors 435
See Also 436
UpdateIdNamespaceAssociation 438
Request Syntax 438
URI Request Parameters 438
Request Body 439
Response Syntax 439
Response Elements 440
Errors 440
See Also 442
UpdateIntermediateTable 443
Request Syntax 443
URI Request Parameters 443
Request Body 444
Response Syntax 445
Response Elements 447
Errors 447
See Also 449
UpdateIntermediateTableAnalysisRule 450
Request Syntax 450
URI Request Parameters 450
Request Body 451

Response Syntax ... 451
Response Elements ... 451
Errors ... 452
See Also ... 453
UpdateMembership ... 455
Request Syntax ... 455
URI Request Parameters ... 456
Request Body ... 456
Response Syntax ... 457
Response Elements ... 458
Errors ... 459
See Also ... 460
UpdatePrivacyBudgetTemplate ... 462
Request Syntax ... 462
URI Request Parameters ... 462
Request Body ... 463
Response Syntax ... 463
Response Elements ... 464
Errors ... 464
See Also ... 465
UpdateProtectedJob ... 467
Request Syntax ... 467
URI Request Parameters ... 467
Request Body ... 467
Response Syntax ... 468
Response Elements ... 469
Errors ... 469
See Also ... 471
UpdateProtectedQuery ... 472
Request Syntax ... 472
URI Request Parameters ... 472
Request Body ... 472
Response Syntax ... 473
Response Elements ... 474
Errors ... 474
See Also ... 476

Data Types 477
AccessBudget 486
Contents 486
See Also 487
AccessBudgetDetails 488
Contents 488
See Also 489
AccessBudgetsPrivacyTemplateParametersInput 491
Contents 491
See Also 491
AccessBudgetsPrivacyTemplateParametersOutput 493
Contents 493
See Also 493
AccessBudgetsPrivacyTemplateUpdateParameters 494
Contents 494
See Also 494
AggregateColumn 495
Contents 495
See Also 495
AggregationConstraint 496
Contents 496
See Also 497
AggregationThreshold 498
Contents 498
See Also 499
AnalysisLogExport 500
Contents 500
See Also 502
AnalysisLogExportError 503
Contents 503
See Also 503
AnalysisLogExportOutputConfiguration 504
Contents 504
See Also 504
AnalysisLogExportResultConfiguration 505
Contents 505

See Also ... 505
AnalysisLogExportS3OutputConfiguration ... 506
Contents ... 506
See Also ... 507
AnalysisLogExportSummary ... 508
Contents ... 508
See Also ... 509
AnalysisParameter ... 510
Contents ... 510
See Also ... 511
AnalysisRule ... 512
Contents ... 512
See Also ... 513
AnalysisRuleAggregation ... 515
Contents ... 515
See Also ... 517
AnalysisRuleCustom ... 518
Contents ... 518
See Also ... 520
AnalysisRuleIdMappingTable ... 521
Contents ... 521
See Also ... 522
AnalysisRuleList ... 523
Contents ... 523
See Also ... 524
AnalysisRulePolicy ... 525
Contents ... 525
See Also ... 525
AnalysisRulePolicyV1 ... 526
Contents ... 526
See Also ... 527
AnalysisSchema ... 528
Contents ... 528
See Also ... 528
AnalysisSource ... 529
Contents ... 529

See Also ... 529
AnalysisSourceMetadata ... 530
Contents ... 530
See Also ... 530
AnalysisTemplate ... 531
Contents ... 531
See Also ... 535
AnalysisTemplateArtifact ... 536
Contents ... 536
See Also ... 536
AnalysisTemplateArtifactMetadata ... 537
Contents ... 537
See Also ... 537
AnalysisTemplateArtifacts ... 538
Contents ... 538
See Also ... 538
AnalysisTemplateSummary ... 540
Contents ... 540
See Also ... 542
AnalysisTemplateValidationStatusDetail ... 544
Contents ... 544
See Also ... 545
AnalysisTemplateValidationStatusReason ... 546
Contents ... 546
See Also ... 546
ApprovalStatusDetails ... 547
Contents ... 547
See Also ... 547
AthenaTableReference ... 548
Contents ... 548
See Also ... 549
BatchGetCollaborationAnalysisTemplateError ... 551
Contents ... 551
See Also ... 551
BatchGetSchemaAnalysisRuleError ... 553
Contents ... 553

See Also ... 554
BatchGetSchemaError ... 555
Contents ... 555
See Also ... 555
BilledJobResourceUtilization ... 557
Contents ... 557
See Also ... 557
BilledResourceUtilization ... 558
Contents ... 558
See Also ... 558
BudgetParameter ... 559
Contents ... 559
See Also ... 559
Change ... 561
Contents ... 561
See Also ... 562
ChangeInput ... 563
Contents ... 563
See Also ... 563
ChangeSpecification ... 564
Contents ... 564
See Also ... 564
ChildResource ... 565
Contents ... 565
See Also ... 566
Collaboration ... 567
Contents ... 567
See Also ... 571
CollaborationAnalysisTemplate ... 573
Contents ... 573
See Also ... 577
CollaborationAnalysisTemplateSummary ... 578
Contents ... 578
See Also ... 580
CollaborationChangeRequest ... 581
Contents ... 581

See Also ... 583
CollaborationChangeRequestSummary ... 584
Contents ... 584
See Also ... 585
CollaborationChangeSpecification ... 587
Contents ... 587
See Also ... 587
CollaborationConfiguredAudienceModelAssociation ... 588
Contents ... 588
See Also ... 590
CollaborationConfiguredAudienceModelAssociationSummary ... 591
Contents ... 591
See Also ... 593
CollaborationIdNamespaceAssociation ... 594
Contents ... 594
See Also ... 596
CollaborationIdNamespaceAssociationSummary ... 598
Contents ... 598
See Also ... 600
CollaborationPrivacyBudgetSummary ... 602
Contents ... 602
See Also ... 604
CollaborationPrivacyBudgetTemplate ... 605
Contents ... 605
See Also ... 607
CollaborationPrivacyBudgetTemplateSummary ... 608
Contents ... 608
See Also ... 610
CollaborationSummary ... 611
Contents ... 611
See Also ... 613
Column ... 615
Contents ... 615
See Also ... 615
ColumnClassificationDetails ... 616
Contents ... 616

See Also ... 616
ColumnLineageEntry ... 617
Contents ... 617
See Also ... 618
ComparisonControls ... 619
Contents ... 619
See Also ... 619
ComputeConfiguration ... 621
Contents ... 621
See Also ... 621
ConfigurationDetails ... 622
Contents ... 622
See Also ... 622
ConfiguredAudienceModelAssociation ... 623
Contents ... 623
See Also ... 626
ConfiguredAudienceModelAssociationSummary ... 627
Contents ... 627
See Also ... 630
ConfiguredTable ... 631
Contents ... 631
See Also ... 633
ConfiguredTableAnalysisRule ... 635
Contents ... 635
See Also ... 636
ConfiguredTableAnalysisRulePolicy ... 637
Contents ... 637
See Also ... 637
ConfiguredTableAnalysisRulePolicyV1 ... 638
Contents ... 638
See Also ... 638
ConfiguredTableAssociation ... 640
Contents ... 640
See Also ... 643
ConfiguredTableAssociationAnalysisRule ... 644
Contents ... 644

See Also ... 645
ConfiguredTableAssociationAnalysisRuleAggregation ... 647
Contents ... 647
See Also ... 648
ConfiguredTableAssociationAnalysisRuleCustom ... 649
Contents ... 649
See Also ... 649
ConfiguredTableAssociationAnalysisRuleList ... 651
Contents ... 651
See Also ... 651
ConfiguredTableAssociationAnalysisRulePolicy ... 653
Contents ... 653
See Also ... 653
ConfiguredTableAssociationAnalysisRulePolicyV1 ... 654
Contents ... 654
See Also ... 654
ConfiguredTableAssociationSchemaTypeProperties ... 656
Contents ... 656
See Also ... 656
ConfiguredTableAssociationSummary ... 657
Contents ... 657
See Also ... 659
ConfiguredTableSummary ... 660
Contents ... 660
See Also ... 662
ConsolidatedPolicy ... 663
Contents ... 663
See Also ... 663
ConsolidatedPolicyAggregation ... 664
Contents ... 664
See Also ... 666
ConsolidatedPolicyCustom ... 667
Contents ... 667
See Also ... 669
ConsolidatedPolicyList ... 670
Contents ... 670

See Also ... 671
ConsolidatedPolicyV1 ... 673
Contents ... 673
See Also ... 673
DataEncryptionMetadata ... 675
Contents ... 675
See Also ... 676
DifferentialPrivacyColumn ... 677
Contents ... 677
See Also ... 677
DifferentialPrivacyConfiguration ... 678
Contents ... 678
See Also ... 678
DifferentialPrivacyParameters ... 679
Contents ... 679
See Also ... 679
DifferentialPrivacyPreviewAggregation ... 680
Contents ... 680
See Also ... 680
DifferentialPrivacyPreviewParametersInput ... 681
Contents ... 681
See Also ... 681
DifferentialPrivacyPrivacyBudget ... 682
Contents ... 682
See Also ... 682
DifferentialPrivacyPrivacyBudgetAggregation ... 683
Contents ... 683
See Also ... 683
DifferentialPrivacyPrivacyImpact ... 685
Contents ... 685
See Also ... 685
DifferentialPrivacySensitivityParameters ... 686
Contents ... 686
See Also ... 687
DifferentialPrivacyTemplateParametersInput ... 688
Contents ... 688

See Also ... 688
DifferentialPrivacyTemplateParametersOutput ... 689
Contents ... 689
See Also ... 689
DifferentialPrivacyTemplateUpdateParameters ... 690
Contents ... 690
See Also ... 690
DirectAnalysisConfigurationDetails ... 691
Contents ... 691
See Also ... 691
ErrorMessageConfiguration ... 692
Contents ... 692
See Also ... 692
GlueTableReference ... 693
Contents ... 693
See Also ... 694
Hash ... 695
Contents ... 695
See Also ... 695
IdMappingConfig ... 696
Contents ... 696
See Also ... 696
IdMappingTable ... 697
Contents ... 697
See Also ... 700
IdMappingTableInputReferenceConfig ... 701
Contents ... 701
See Also ... 701
IdMappingTableInputReferenceProperties ... 702
Contents ... 702
See Also ... 702
IdMappingTableInputSource ... 703
Contents ... 703
See Also ... 703
IdMappingTableSchemaTypeProperties ... 704
Contents ... 704

See Also ... 704
IdMappingTableSummary ... 705
Contents ... 705
See Also ... 707
IdNamespaceAssociation ... 709
Contents ... 709
See Also ... 712
IdNamespaceAssociationInputReferenceConfig ... 713
Contents ... 713
See Also ... 713
IdNamespaceAssociationInputReferenceProperties ... 715
Contents ... 715
See Also ... 715
IdNamespaceAssociationInputReferencePropertiesSummary ... 716
Contents ... 716
See Also ... 716
IdNamespaceAssociationSummary ... 717
Contents ... 717
See Also ... 720
InheritedAdditionalAnalyses ... 721
Contents ... 721
See Also ... 721
InheritedAdditionalAnalysesSource ... 722
Contents ... 722
See Also ... 723
InheritedAllowedAdditionalAnalyses ... 724
Contents ... 724
See Also ... 724
InheritedAllowedAdditionalAnalysesSource ... 725
Contents ... 725
See Also ... 726
InheritedAllowedResultReceivers ... 727
Contents ... 727
See Also ... 727
InheritedAllowedResultReceiversSource ... 728
Contents ... 728

See Also ... 729
InheritedDisallowedOutputColumns ... 730
Contents ... 730
See Also ... 730
IntermediateTable ... 731
Contents ... 731
See Also ... 735
IntermediateTableActiveVersion ... 736
Contents ... 736
See Also ... 737
IntermediateTableAnalysisRule ... 739
Contents ... 739
See Also ... 740
IntermediateTableAnalysisRuleCustom ... 741
Contents ... 741
See Also ... 743
IntermediateTableAnalysisRulePolicy ... 744
Contents ... 744
See Also ... 744
IntermediateTableAnalysisRulePolicyV1 ... 745
Contents ... 745
See Also ... 745
IntermediateTableColumn ... 746
Contents ... 746
See Also ... 746
IntermediateTableComputeConfiguration ... 747
Contents ... 747
See Also ... 747
IntermediateTableDependency ... 748
Contents ... 748
See Also ... 749
IntermediateTableInheritedConstraints ... 750
Contents ... 750
See Also ... 750
IntermediateTableOutputConfiguration ... 752
Contents ... 752

See Also ... 753
IntermediateTableSchema ... 754
Contents ... 754
See Also ... 754
IntermediateTableSchemaTypeProperties ... 755
Contents ... 755
See Also ... 755
IntermediateTableSummary ... 756
Contents ... 756
See Also ... 759
IntermediateTableVersionSummary ... 760
Contents ... 760
See Also ... 762
JobComputePaymentConfig ... 763
Contents ... 763
See Also ... 763
MemberChangeSpecification ... 764
Contents ... 764
See Also ... 765
Membership ... 766
Contents ... 766
See Also ... 770
MembershipJobComputePaymentConfig ... 771
Contents ... 771
See Also ... 771
MembershipMLPaymentConfig ... 772
Contents ... 772
See Also ... 772
MembershipModelInferencePaymentConfig ... 773
Contents ... 773
See Also ... 773
MembershipModelTrainingPaymentConfig ... 774
Contents ... 774
See Also ... 774
MembershipPaymentConfiguration ... 775
Contents ... 775

See Also ... 775
MembershipProtectedJobOutputConfiguration ... 776
Contents ... 776
See Also ... 776
MembershipProtectedJobResultConfiguration ... 777
Contents ... 777
See Also ... 777
MembershipProtectedQueryOutputConfiguration ... 778
Contents ... 778
See Also ... 778
MembershipProtectedQueryResultConfiguration ... 779
Contents ... 779
See Also ... 779
MembershipQueryComputePaymentConfig ... 780
Contents ... 780
See Also ... 780
MembershipSummary ... 781
Contents ... 781
See Also ... 784
MembershipSyntheticDataGenerationPaymentConfig ... 785
Contents ... 785
See Also ... 785
MemberSpecification ... 786
Contents ... 786
See Also ... 787
MemberSummary ... 788
Contents ... 788
See Also ... 790
MLMemberAbilities ... 791
Contents ... 791
See Also ... 791
MLPaymentConfig ... 792
Contents ... 792
See Also ... 792
MLSyntheticDataParameters ... 793
Contents ... 793

See Also ... 793
ModelInferencePaymentConfig ... 795
Contents ... 795
See Also ... 795
ModelTrainingPaymentConfig ... 796
Contents ... 796
See Also ... 796
OutputColumnThreshold ... 797
Contents ... 797
See Also ... 797
PaymentConfiguration ... 799
Contents ... 799
See Also ... 799
PopulationAnalysisConfiguration ... 801
Contents ... 801
See Also ... 801
PopulationAnalysisSqlParameters ... 802
Contents ... 802
See Also ... 802
PreviewPrivacyImpactParametersInput ... 803
Contents ... 803
See Also ... 803
PrivacyBudget ... 804
Contents ... 804
See Also ... 804
PrivacyBudgetSummary ... 805
Contents ... 805
See Also ... 807
PrivacyBudgetTemplate ... 809
Contents ... 809
See Also ... 812
PrivacyBudgetTemplateParametersInput ... 813
Contents ... 813
See Also ... 813
PrivacyBudgetTemplateParametersOutput ... 814
Contents ... 814

See Also ... 814
PrivacyBudgetTemplateSummary ... 815
Contents ... 815
See Also ... 817
PrivacyBudgetTemplateUpdateParameters ... 818
Contents ... 818
See Also ... 818
PrivacyImpact ... 819
Contents ... 819
See Also ... 819
ProtectedJob ... 820
Contents ... 820
See Also ... 822
ProtectedJobComputeConfiguration ... 823
Contents ... 823
See Also ... 823
ProtectedJobConfigurationDetails ... 824
Contents ... 824
See Also ... 824
ProtectedJobDirectAnalysisConfigurationDetails ... 825
Contents ... 825
See Also ... 825
ProtectedJobError ... 826
Contents ... 826
See Also ... 826
ProtectedJobMemberOutputConfigurationInput ... 827
Contents ... 827
See Also ... 827
ProtectedJobMemberOutputConfigurationOutput ... 828
Contents ... 828
See Also ... 828
ProtectedJobOutput ... 829
Contents ... 829
See Also ... 829
ProtectedJobOutputConfigurationInput ... 830
Contents ... 830

See Also ... 830
ProtectedJobOutputConfigurationOutput ... 831
Contents ... 831
See Also ... 831
ProtectedJobParameters ... 832
Contents ... 832
See Also ... 832
ProtectedJobReceiverConfiguration ... 834
Contents ... 834
See Also ... 834
ProtectedJobResult ... 835
Contents ... 835
See Also ... 835
ProtectedJobResultConfigurationInput ... 836
Contents ... 836
See Also ... 836
ProtectedJobResultConfigurationOutput ... 837
Contents ... 837
See Also ... 837
ProtectedJobS3Output ... 838
Contents ... 838
See Also ... 838
ProtectedJobS3OutputConfigurationInput ... 839
Contents ... 839
See Also ... 839
ProtectedJobS3OutputConfigurationOutput ... 840
Contents ... 840
See Also ... 840
ProtectedJobSingleMemberOutput ... 841
Contents ... 841
See Also ... 841
ProtectedJobStatistics ... 842
Contents ... 842
See Also ... 842
ProtectedJobSummary ... 843
Contents ... 843

See Also ... 844
ProtectedJobWorkerComputeConfiguration ... 846
Contents ... 846
See Also ... 846
ProtectedQuery ... 848
Contents ... 848
See Also ... 850
ProtectedQueryDistributeOutput ... 852
Contents ... 852
See Also ... 852
ProtectedQueryDistributeOutputConfiguration ... 853
Contents ... 853
See Also ... 853
ProtectedQueryDistributeOutputConfigurationLocation ... 854
Contents ... 854
See Also ... 854
ProtectedQueryError ... 855
Contents ... 855
See Also ... 855
ProtectedQueryMemberOutputConfiguration ... 856
Contents ... 856
See Also ... 856
ProtectedQueryOutput ... 857
Contents ... 857
See Also ... 858
ProtectedQueryOutputConfiguration ... 859
Contents ... 859
See Also ... 860
ProtectedQueryResult ... 861
Contents ... 861
See Also ... 861
ProtectedQueryResultConfiguration ... 862
Contents ... 862
See Also ... 862
ProtectedQueryS3Output ... 863
Contents ... 863

See Also ... 863
ProtectedQueryS3OutputConfiguration ... 864
Contents ... 864
See Also ... 865
ProtectedQuerySingleMemberOutput ... 866
Contents ... 866
See Also ... 866
ProtectedQuerySQLParameters ... 867
Contents ... 867
See Also ... 868
ProtectedQueryStatistics ... 869
Contents ... 869
See Also ... 869
ProtectedQuerySummary ... 870
Contents ... 870
See Also ... 872
QueryComputePaymentConfig ... 873
Contents ... 873
See Also ... 873
QueryConstraint ... 874
Contents ... 874
See Also ... 874
QueryConstraintRequireOverlap ... 875
Contents ... 875
See Also ... 875
ReceiverConfiguration ... 876
Contents ... 876
See Also ... 876
S3Location ... 877
Contents ... 877
See Also ... 877
Schema ... 878
Contents ... 878
See Also ... 881
SchemaAnalysisRuleRequest ... 883
Contents ... 883

See Also ... 883
SchemaStatusDetail ... 884
Contents ... 884
See Also ... 885
SchemaStatusReason ... 886
Contents ... 886
See Also ... 886
SchemaSummary ... 888
Contents ... 888
See Also ... 890
SchemaTypeProperties ... 892
Contents ... 892
See Also ... 892
SnowflakeTableReference ... 894
Contents ... 894
See Also ... 895
SnowflakeTableSchema ... 896
Contents ... 896
See Also ... 896
SnowflakeTableSchemaV1 ... 897
Contents ... 897
See Also ... 897
SyntheticDataColumnProperties ... 899
Contents ... 899
See Also ... 899
SyntheticDataGenerationPaymentConfig ... 901
Contents ... 901
See Also ... 901
SyntheticDataParameters ... 902
Contents ... 902
See Also ... 902
TableReference ... 903
Contents ... 903
See Also ... 903
UpdateMembershipPaymentConfiguration ... 905
Contents ... 905

See Also 905
ValidationExceptionField 907
Contents 907
See Also 907
WorkerComputeConfiguration 908
Contents 908
See Also 909
WorkerComputeConfigurationProperties 910
Contents 910
See Also 910
Common Parameters 912
Common Error Types 915

Welcome

Welcome to the *AWS Clean Rooms API Reference*.

AWS Clean Rooms is an AWS service that helps multiple parties to join their data together in a secure collaboration workspace. In the collaboration, members who can run queries and jobs and receive results can get insights into the collective datasets without either party getting access to the other party's raw data.

To learn more about AWS Clean Rooms concepts, procedures, and best practices, see the AWS Clean Rooms User Guide.

To learn more about SQL commands, functions, and conditions supported in AWS Clean Rooms, see the AWS Clean Rooms SQL Reference.

This document was last published on October 2, 2026.

Actions

The following actions are supported:

- BatchGetCollaborationAnalysisTemplate
- BatchGetSchema
- BatchGetSchemaAnalysisRule
- CreateAnalysisTemplate
- CreateCollaboration
- CreateCollaborationChangeRequest
- CreateConfiguredAudienceModelAssociation
- CreateConfiguredTable
- CreateConfiguredTableAnalysisRule
- CreateConfiguredTableAssociation
- CreateConfiguredTableAssociationAnalysisRule
- CreateIdMappingTable
- CreateIdNamespaceAssociation
- CreateIntermediateTable
- CreateIntermediateTableAnalysisRule
- CreateMembership
- CreatePrivacyBudgetTemplate
- DeleteAnalysisTemplate
- DeleteCollaboration
- DeleteConfiguredAudienceModelAssociation
- DeleteConfiguredTable
- DeleteConfiguredTableAnalysisRule
- DeleteConfiguredTableAssociation
- DeleteConfiguredTableAssociationAnalysisRule
- DeleteIdMappingTable
- DeleteIdNamespaceAssociation
- DeleteIntermediateTable

- DeleteIntermediateTableAnalysisRule
- DeleteMember
- DeleteMembership
- DeletePrivacyBudgetTemplate
- DisallowIntermediateTable
- GetAnalysisLogExport
- GetAnalysisTemplate
- GetCollaboration
- GetCollaborationAnalysisTemplate
- GetCollaborationChangeRequest
- GetCollaborationConfiguredAudienceModelAssociation
- GetCollaborationIdNamespaceAssociation
- GetCollaborationPrivacyBudgetTemplate
- GetConfiguredAudienceModelAssociation
- GetConfiguredTable
- GetConfiguredTableAnalysisRule
- GetConfiguredTableAssociation
- GetConfiguredTableAssociationAnalysisRule
- GetIdMappingTable
- GetIdNamespaceAssociation
- GetIntermediateTable
- GetIntermediateTableAnalysisRule
- GetMembership
- GetPrivacyBudgetTemplate
- GetProtectedJob
- GetProtectedQuery
- GetSchema
- GetSchemaAnalysisRule
- ListAnalysisLogExports
- ListAnalysisTemplates

- ListCollaborationAnalysisTemplates
- ListCollaborationChangeRequests
- ListCollaborationConfiguredAudienceModelAssociations
- ListCollaborationIdNamespaceAssociations
- ListCollaborationPrivacyBudgets
- ListCollaborationPrivacyBudgetTemplates
- ListCollaborations
- ListConfiguredAudienceModelAssociations
- ListConfiguredTableAssociations
- ListConfiguredTables
- ListIdMappingTables
- ListIdNamespaceAssociations
- ListIntermediateTables
- ListIntermediateTableVersions
- ListMembers
- ListMemberships
- ListPrivacyBudgets
- ListPrivacyBudgetTemplates
- ListProtectedJobs
- ListProtectedQueries
- ListSchemas
- ListTagsForResource
- PopulateIdMappingTable
- PopulateIntermediateTable
- PreviewPrivacyImpact
- StartAnalysisLogExport
- StartProtectedJob
- StartProtectedQuery
- TagResource
- UntagResource

- UpdateAnalysisTemplate
- UpdateCollaboration
- UpdateCollaborationChangeRequest
- UpdateConfiguredAudienceModelAssociation
- UpdateConfiguredTable
- UpdateConfiguredTableAnalysisRule
- UpdateConfiguredTableAssociation
- UpdateConfiguredTableAssociationAnalysisRule
- UpdateIdMappingTable
- UpdateIdNamespaceAssociation
- UpdateIntermediateTable
- UpdateIntermediateTableAnalysisRule
- UpdateMembership
- UpdatePrivacyBudgetTemplate
- UpdateProtectedJob
- UpdateProtectedQuery

BatchGetCollaborationAnalysisTemplate

Retrieves multiple analysis templates within a collaboration by their Amazon Resource Names (ARNs).

Request Syntax

```
POST /collaborations/collaborationIdentifier/batch-analysistemplates HTTP/1.1
Content-type: application/json

{
   "analysisTemplateArns": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analysisTemplateArns

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationAnalysisTemplates": [
      {
         "analysisParameters": [
            {
               "defaultValue": "string",
               "name": "string",
               "type": "string"
            }
         ],
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "creatorAccountId": "string",
         "description": "string",
         "errorMessageConfiguration": {
            "type": "string"
         },
         "format": "string",
         "id": "string",
         "name": "string",
         "schema": {
            "referencedTables": [ "string" ]
         },
         "source": { ... },
         "sourceMetadata": { ... },
         "syntheticDataParameters": { ... },
         "updateTime": number,
         "validations": [
```

```
            {
               "reasons": [
                  {
                     "message": "string"
                  }
               ],
               "status": "string",
               "type": "string"
            }
         ]
      }
   ],
   "errors": [
      {
         "arn": "string",
         "code": "string",
         "message": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationAnalysisTemplates

The retrieved list of analysis templates within a collaboration.

Type: Array of CollaborationAnalysisTemplate objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

errors

Error reasons for collaboration analysis templates that could not be retrieved. One error is returned for every collaboration analysis template that could not be retrieved.

Type: Array of BatchGetCollaborationAnalysisTemplateError objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

BatchGetSchema

Retrieves multiple schemas by their identifiers.

Request Syntax

```
POST /collaborations/collaborationIdentifier/batch-schema HTTP/1.1
Content-type: application/json

{
   "names": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

A unique identifier for the collaboration that the schemas belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

names

The names for the schema objects to retrieve.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "errors": [
      {
         "code": "string",
         "message": "string",
         "name": "string"
      }
   ],
   "schemas": [
      {
         "analysisMethod": "string",
         "analysisRuleTypes": [ "string" ],
         "collaborationArn": "string",
         "collaborationId": "string",
         "columns": [
            {
               "name": "string",
               "type": "string"
            }
         ],
         "createTime": number,
         "creatorAccountId": "string",
         "description": "string",
         "name": "string",
         "partitionKeys": [
            {
               "name": "string",
               "type": "string"
            }
         ],
         "resourceArn": "string",
         "schemaStatusDetails": [
```

```
            {
               "analysisRuleType": "string",
               "analysisType": "string",
               "configurations": [ "string" ],
               "reasons": [
                  {
                     "code": "string",
                     "message": "string"
                  }
               ],
               "status": "string"
            }
         ],
         "schemaTypeProperties": { ... },
         "selectedAnalysisMethods": [ "string" ],
         "type": "string",
         "updateTime": number
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

errors

Error reasons for schemas that could not be retrieved. One error is returned for every schema that could not be retrieved.

Type: Array of BatchGetSchemaError objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

schemas

The retrieved list of schemas.

Type: Array of Schema objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

BatchGetSchemaAnalysisRule

Retrieves multiple analysis rule schemas.

Request Syntax

```
POST /collaborations/collaborationIdentifier/batch-schema-analysis-rule HTTP/1.1
Content-type: application/json

{
   "schemaAnalysisRuleRequests": [
      {
         "name": "string",
         "type": "string"
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The unique identifier of the collaboration that contains the schema analysis rule.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

schemaAnalysisRuleRequests

The information that's necessary to retrieve a schema analysis rule.

Type: Array of SchemaAnalysisRuleRequest objects

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisRules": [
      {
         "collaborationId": "string",
         "collaborationPolicy": { ... },
         "consolidatedPolicy": { ... },
         "createTime": number,
         "name": "string",
         "policy": { ... },
         "type": "string",
         "updateTime": number
      }
   ],
   "errors": [
      {
         "code": "string",
         "message": "string",
         "name": "string",
         "type": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRules

The retrieved list of analysis rules.

Type: Array of AnalysisRule objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

errors

Error reasons for schemas that could not be retrieved. One error is returned for every schema that could not be retrieved.

Type: Array of BatchGetSchemaAnalysisRuleError objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateAnalysisTemplate

Creates a new analysis template.

Request Syntax

```
POST /memberships/membershipIdentifier/analysistemplates HTTP/1.1
Content-type: application/json

{
   "analysisParameters": [
      {
         "defaultValue": "string",
         "name": "string",
         "type": "string"
      }
   ],
   "description": "string",
   "errorMessageConfiguration": {
      "type": "string"
   },
   "format": "string",
   "name": "string",
   "schema": {
      "referencedTables": [ "string" ]
   },
   "source": { ... },
   "syntheticDataParameters": { ... },
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analysisParameters

The parameters of the analysis template.

Type: Array of AnalysisParameter objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

errorMessageConfiguration

The configuration that specifies the level of detail in error messages returned by analyses using this template. When set to `DETAILED`, error messages include more information to help troubleshoot issues with PySpark jobs. Detailed error messages may expose underlying data, including sensitive information. Recommended for faster troubleshooting in development and testing environments.

Type: ErrorMessageConfiguration object

Required: No

format

The format of the analysis template.

Type: String

Valid Values: `SQL | PYSPARK_1_0`

Required: Yes

name

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

schema

A relation within an analysis.

Type: AnalysisSchema object

Required: No

source

The information in the analysis template.

Type: AnalysisSource object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

syntheticDataParameters

The parameters for generating synthetic data when running the analysis template.

Type: SyntheticDataParameters object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisTemplate": {
      "analysisParameters": [
         {
            "defaultValue": "string",
            "name": "string",
            "type": "string"
         }
      ],
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "errorMessageConfiguration": {
         "type": "string"
      },
      "format": "string",
      "id": "string",
      "membershipArn": "string",
```

```
      "membershipId": "string",
      "name": "string",
      "schema": {
         "referencedTables": [ "string" ]
      },
      "source": { ... },
      "sourceMetadata": { ... },
      "syntheticDataParameters": { ... },
      "updateTime": number,
      "validations": [
         {
            "reasons": [
               {
                  "message": "string"
               }
            ],
            "status": "string",
            "type": "string"
         }
      ]
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisTemplate

The analysis template.

Type: AnalysisTemplate object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateCollaboration

Creates a new collaboration.

Request Syntax

```
POST /collaborations HTTP/1.1
Content-type: application/json

{
   "allowedResultRegions": [ "string" ],
   "analyticsEngine": "string",
   "autoApprovedChangeRequestTypes": [ "string" ],
   "creatorDisplayName": "string",
   "creatorMemberAbilities": [ "string" ],
   "creatorMLMemberAbilities": {
      "customMLMemberAbilities": [ "string" ]
   },
   "creatorPaymentConfiguration": {
      "jobCompute": {
         "isResponsible": boolean
      },
      "machineLearning": {
         "modelInference": {
            "isResponsible": boolean
         },
         "modelTraining": {
            "isResponsible": boolean
         },
         "syntheticDataGeneration": {
            "isResponsible": boolean
         }
      },
      "queryCompute": {
         "isResponsible": boolean
      }
   },
   "dataEncryptionMetadata": {
      "allowCleartext": boolean,
      "allowDuplicates": boolean,
      "allowJoinsOnColumnsWithDifferentNames": boolean,
      "preserveNulls": boolean
   },
```

```
   "description": "string",
   "isMetricsEnabled": boolean,
   "jobLogStatus": "string",
   "members": [
      {
         "accountId": "string",
         "displayName": "string",
         "memberAbilities": [ "string" ],
         "mlMemberAbilities": {
            "customMLMemberAbilities": [ "string" ]
         },
         "paymentConfiguration": {
            "jobCompute": {
               "isResponsible": boolean
            },
            "machineLearning": {
               "modelInference": {
                  "isResponsible": boolean
               },
               "modelTraining": {
                  "isResponsible": boolean
               },
               "syntheticDataGeneration": {
                  "isResponsible": boolean
               }
            },
            "queryCompute": {
               "isResponsible": boolean
            }
         }
      }
   ],
   "name": "string",
   "queryLogStatus": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

allowedResultRegions

The AWS Regions where collaboration query results can be stored. When specified, results can only be written to these Regions. This parameter enables you to meet your compliance and data governance requirements, and implement regional data governance policies.

Type: Array of strings

Valid Values: `us-west-1 | us-west-2 | us-east-1 | us-east-2 | af-south-1 | ap-east-1 | ap-east-2 | ap-south-2 | ap-southeast-1 | ap-southeast-2 | ap-southeast-3 | ap-southeast-5 | ap-southeast-4 | ap-southeast-7 | ap-south-1 | ap-northeast-3 | ap-northeast-1 | ap-northeast-2 | ca-central-1 | ca-west-1 | eu-south-1 | eu-west-3 | eu-south-2 | eu-central-2 | eu-central-1 | eu-north-1 | eu-west-1 | eu-west-2 | me-south-1 | me-central-1 | il-central-1 | sa-east-1 | mx-central-1`

Required: No

analyticsEngine

The analytics engine.

> **Note**
>
> After July 16, 2025, the `CLEAN_ROOMS_SQL` parameter will no longer be available.

Type: String

Valid Values: `SPARK | CLEAN_ROOMS_SQL`

Required: No

autoApprovedChangeRequestTypes

The types of change requests that are automatically approved for this collaboration.

Type: Array of strings

Valid Values: `ADD_MEMBER | GRANT_RECEIVE_RESULTS_ABILITY | REVOKE_RECEIVE_RESULTS_ABILITY | GRANT_EXPORT_QUERY_ANALYSIS_LOG_ABILITY | REVOKE_EXPORT_QUERY_ANALYSIS_LOG_ABILITY`

Required: No

creatorDisplayName

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

creatorMemberAbilities

The abilities granted to the collaboration creator.

Type: Array of strings

Valid Values: `CAN_QUERY | CAN_RECEIVE_RESULTS | CAN_RUN_JOB | CAN_EXPORT_QUERY_ANALYSIS_LOG`

Required: Yes

creatorMLMemberAbilities

The ML abilities granted to the collaboration creator.

Type: MLMemberAbilities object

Required: No

creatorPaymentConfiguration

The collaboration creator's payment responsibilities set by the collaboration creator.

If the collaboration creator hasn't specified anyone as the member paying for query compute costs, then the member who can query is the default payer.

Type: PaymentConfiguration object

Required: No

dataEncryptionMetadata

The settings for client-side encryption with Cryptographic Computing for Clean Rooms.

Type: DataEncryptionMetadata object

Required: No

description

A description of the collaboration provided by the collaboration owner.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `(?!\s+$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

isMetricsEnabled

An indicator as to whether metrics have been enabled or disabled for the collaboration.

When `true`, collaboration members can opt in to Amazon CloudWatch metrics for their membership queries. The default value is `false`.

Type: Boolean

Required: No

jobLogStatus

Specifies whether job logs are enabled for this collaboration.

When `ENABLED`, AWS Clean Rooms logs details about jobs run within this collaboration; those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

members

A list of initial members, not including the creator. This list is immutable.

Type: Array of MemberSpecification objects

Array Members: Minimum number of 0 items.

Required: Yes

name

The display name for a collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

queryLogStatus

An indicator as to whether query logging has been enabled or disabled for the collaboration.

When `ENABLED`, AWS Clean Rooms logs details about queries run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: Yes

tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaboration": {
      "allowedResultRegions": [ "string" ],
      "analyticsEngine": "string",
      "arn": "string",
      "autoApprovedChangeTypes": [ "string" ],
      "createTime": number,
      "creatorAccountId": "string",
      "creatorDisplayName": "string",
      "dataEncryptionMetadata": {
         "allowCleartext": boolean,
         "allowDuplicates": boolean,
         "allowJoinsOnColumnsWithDifferentNames": boolean,
         "preserveNulls": boolean
      },
      "description": "string",
      "id": "string",
      "isMetricsEnabled": boolean,
      "jobLogStatus": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "memberStatus": "string",
      "name": "string",
      "queryLogStatus": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaboration

The collaboration.

Type: Collaboration object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateCollaborationChangeRequest

Creates a new change request to modify an existing collaboration. This enables post-creation modifications to collaborations through a structured API-driven approach.

Request Syntax

```
POST /collaborations/collaborationIdentifier/changeRequests HTTP/1.1
Content-type: application/json

{
   "changes": [
      {
         "specification": { ... },
         "specificationType": "string"
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The identifier of the collaboration that the change request is made against.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

changes

The list of changes to apply to the collaboration. Each change specifies the type of modification and the details of what should be changed.

Type: Array of ChangeInput objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationChangeRequest": {
      "approvals": {
         "string" : {
            "status": "string"
         }
      },
      "changes": [
         {
            "specification": { ... },
            "specificationType": "string",
            "types": [ "string" ]
         }
      ],
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "isAutoApproved": boolean,
      "status": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationChangeRequest

Represents a request to modify a collaboration. Change requests enable structured modifications to collaborations after they have been created.

Type: CollaborationChangeRequest object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateConfiguredAudienceModelAssociation

Provides the details necessary to create a configured audience model association.

Request Syntax

```
POST /memberships/membershipIdentifier/configuredaudiencemodelassociations HTTP/1.1
Content-type: application/json

{
   "configuredAudienceModelArn": "string",
   "configuredAudienceModelAssociationName": "string",
   "description": "string",
   "manageResourcePolicies": boolean,
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The configured audience model is associated to the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

configuredAudienceModelArn

A unique identifier for the configured audience model that you want to associate.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

configuredAudienceModelAssociationName

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

description

A description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

manageResourcePolicies

When TRUE, indicates that the resource policy for the configured audience model resource being associated is configured for AWS Clean Rooms to manage permissions related to the given collaboration. When FALSE, indicates that the configured audience model resource owner will manage permissions related to the given collaboration.

Setting this to TRUE requires you to have permissions to create, update, and delete the resource policy for the `cleanrooms-ml` resource when you call the DeleteConfiguredAudienceModelAssociation resource. In addition, if you are the collaboration

creator and specify TRUE, you must have the same permissions when you call the DeleteMember and DeleteCollaboration APIs.

Type: Boolean

Required: Yes

tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredAudienceModelAssociation": {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "configuredAudienceModelArn": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "manageResourcePolicies": boolean,
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
```

```
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredAudienceModelAssociation

Information about the configured audience model association.

Type: ConfiguredAudienceModelAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateConfiguredTable

Creates a new configured table resource.

Request Syntax

```
POST /configuredTables HTTP/1.1
Content-type: application/json

{
   "allowedColumns": [ "string" ],
   "analysisMethod": "string",
   "description": "string",
   "name": "string",
   "selectedAnalysisMethods": [ "string" ],
   "tableReference": { ... },
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

allowedColumns

The columns of the underlying table that can be used by collaborations or analysis rules.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

analysisMethod

The analysis method allowed for the configured tables.

`DIRECT_QUERY` allows SQL queries to be run directly on this table.

`DIRECT_JOB` allows PySpark jobs to be run directly on this table.

`MULTIPLE` allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: `DIRECT_QUERY | DIRECT_JOB | MULTIPLE`

Required: Yes

description

A description for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

name

The name of the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

selectedAnalysisMethods

The analysis methods to enable for the configured table. When configured, you must specify at least two analysis methods.

Type: Array of strings

Valid Values: `DIRECT_QUERY | DIRECT_JOB`

Required: No

tableReference

A reference to the table being configured.

Type: TableReference object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredTable": {
      "allowedColumns": [ "string" ],
      "analysisMethod": "string",
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
```

```
      "name": "string",
      "selectedAnalysisMethods": [ "string" ],
      "tableReference": { ... },
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredTable

The created configured table.

Type: ConfiguredTable object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateConfiguredTableAnalysisRule

Creates a new analysis rule for a configured table. Currently, only one analysis rule can be created for a given configured table.

Request Syntax

```
POST /configuredTables/configuredTableIdentifier/analysisRule HTTP/1.1
Content-type: application/json

{
   "analysisRulePolicy": { ... },
   "analysisRuleType": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

configuredTableIdentifier

The identifier for the configured table to create the analysis rule for. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analysisRulePolicy

The analysis rule policy that was created for the configured table.

Type: ConfiguredTableAnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

analysisRuleType

The type of analysis rule.

Type: String

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisRule": {
      "configuredTableArn": "string",
      "configuredTableId": "string",
      "createTime": number,
      "policy": { ... },
      "type": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRule

The analysis rule that was created for the configured table.

Type: ConfiguredTableAnalysisRule object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateConfiguredTableAssociation

Creates a configured table association. A configured table association links a configured table with a collaboration.

Request Syntax

```
POST /memberships/membershipIdentifier/configuredTableAssociations HTTP/1.1
Content-type: application/json

{
   "configuredTableIdentifier": "string",
   "description": "string",
   "name": "string",
   "roleArn": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The configured table is associated to the collaboration that this membership belongs to. Currently accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

configuredTableIdentifier

A unique identifier for the configured table to be associated to. Currently accepts a configured table ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

description

A description for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

name

The name of the configured table association. This name is used to query the underlying configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

roleArn

The service will assume this role to access catalog metadata and query the table.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@-]+`

Required: Yes

tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredTableAssociation": {
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "childResources": [
         {
            "ownerAccountId": "string",
            "resourceId": "string",
            "resourceName": "string",
            "resourceStatus": "string",
            "resourceType": "string"
         }
      ],
      "configuredTableArn": "string",
      "configuredTableId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
```

```
        "membershipArn": "string",
        "membershipId": "string",
        "name": "string",
        "roleArn": "string",
        "updateTime": number
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredTableAssociation

The configured table association.

Type: ConfiguredTableAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateConfiguredTableAssociationAnalysisRule

Creates a new analysis rule for an associated configured table.

Request Syntax

```
POST /memberships/membershipIdentifier/
configuredTableAssociations/configuredTableAssociationIdentifier/analysisRule HTTP/1.1
Content-type: application/json

{
   "analysisRulePolicy": { ... },
   "analysisRuleType": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

configuredTableAssociationIdentifier

The unique ID for the configured table association. Currently accepts the configured table association ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analysisRulePolicy

The analysis rule policy that was created for the configured table association.

Type: ConfiguredTableAssociationAnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

analysisRuleType

The type of analysis rule.

Type: String

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisRule": {
      "configuredTableAssociationArn": "string",
      "configuredTableAssociationId": "string",
      "createTime": number,
      "membershipIdentifier": "string",
      "policy": { ... },
      "type": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRule

The analysis rule for the configured table association. In the console, the `ConfiguredTableAssociationAnalysisRule` is referred to as the *collaboration analysis rule*.

Type: ConfiguredTableAssociationAnalysisRule object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateIdMappingTable

Creates an ID mapping table.

Request Syntax

```
POST /memberships/membershipIdentifier/idmappingtables HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "inputReferenceConfig": {
      "inputReferenceArn": "string",
      "manageResourcePolicies": boolean
   },
   "kmsKeyArn": "string",
   "name": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The unique identifier of the membership that contains the ID mapping table.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A description of the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

inputReferenceConfig

The input reference configuration needed to create the ID mapping table.

Type: IdMappingTableInputReferenceConfig object

Required: Yes

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This value is used to encrypt the mapping table data that is stored by AWS Clean Rooms.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws:kms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:key/[a-zA-Z0-9-]+`

Required: No

name

A name for the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "idMappingTable": {
      "arn": "string",
      "childResources": [
         {
            "ownerAccountId": "string",
            "resourceId": "string",
            "resourceName": "string",
            "resourceStatus": "string",
            "resourceType": "string"
         }
      ],
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "inputReferenceConfig": {
         "inputReferenceArn": "string",
         "manageResourcePolicies": boolean
      },
      "inputReferenceProperties": {
```

```
         "idMappingTableInputSource": [
            {
               "idNamespaceAssociationId": "string",
               "type": "string"
            }
         ]
      },
      "kmsKeyArn": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

idMappingTable

The ID mapping table that was created.

Type: IdMappingTable object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateIdNamespaceAssociation

Creates an ID namespace association.

Request Syntax

```
POST /memberships/membershipIdentifier/idnamespaceassociations HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "idMappingConfig": {
      "allowUseAsDimensionColumn": boolean
   },
   "inputReferenceConfig": {
      "inputReferenceArn": "string",
      "manageResourcePolicies": boolean
   },
   "name": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The unique identifier of the membership that contains the ID namespace association.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description of the ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

idMappingConfig

The configuration settings for the ID mapping table.

Type: IdMappingConfig object

Required: No

inputReferenceConfig

The input reference configuration needed to create the ID namespace association.

Type: IdNamespaceAssociationInputReferenceConfig object

Required: Yes

name

The name for the ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "idNamespaceAssociation": {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "idMappingConfig": {
         "allowUseAsDimensionColumn": boolean
      },
      "inputReferenceConfig": {
         "inputReferenceArn": "string",
         "manageResourcePolicies": boolean
      },
      "inputReferenceProperties": {
         "idMappingWorkflowsSupported": [ JSON value ],
         "idNamespaceType": "string"
      },
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

idNamespaceAssociation

The ID namespace association that was created.

Type: IdNamespaceAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateIntermediateTable

Creates an intermediate table in a membership. The intermediate table is owned by the member with the CAN_QUERY ability. To populate the table with results, use `PopulateIntermediateTable`.

Request Syntax

```
POST /memberships/membershipIdentifier/intermediateTables HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "kmsKeyArn": "string",
   "name": "string",
   "populationAnalysisConfiguration": { ... },
   "retentionInDays": number,
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The unique identifier of the membership where the intermediate table is created.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A description of the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the customer-managed KMS key used to encrypt the intermediate table data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws:kms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:key/[a-zA-Z0-9-]+`

Required: No

name

The display name for the intermediate table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

populationAnalysisConfiguration

The configuration that defines the analysis used to populate the intermediate table.

Type: PopulationAnalysisConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

retentionInDays

The number of days to retain populated data versions.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 365.

Required: No

tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "intermediateTable": {
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "childResources": [
         {
            "ownerAccountId": "string",
            "resourceId": "string",
            "resourceName": "string",
            "resourceStatus": "string",
            "resourceType": "string"
         }
      ],
```

```
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "intermediateTableVersion": {
         "analysisId": "string",
         "analysisType": "string",
         "expirationTime": number,
         "inheritedConstraints": {
            "additionalAnalyses": {
               "sources": [
                  {
                     "id": "string",
                     "name": "string",
                     "sourceAccountId": "string",
                     "type": "string",
                     "value": "string"
                  }
               ],
               "value": "string"
            },
            "allowedAdditionalAnalyses": {
               "sources": [
                  {
                     "id": "string",
                     "name": "string",
                     "sourceAccountId": "string",
                     "type": "string",
                     "value": [ "string" ]
                  }
               ],
               "value": [ "string" ]
            },
            "allowedResultReceivers": {
               "sources": [
                  {
                     "id": "string",
                     "name": "string",
                     "sourceAccountId": "string",
                     "type": "string",
                     "value": [ "string" ]
                  }
               ],
```

```
            "value": [ "string" ]
         },
         "disallowedOutputColumns": {
            "columnLineage": [
               {
                  "column": "string",
                  "sourceAccountId": "string",
                  "sourceColumn": "string",
                  "sourceId": "string",
                  "sourceName": "string",
                  "sourceType": "string"
               }
            ],
            "value": [ "string" ]
         }
      },
      "kmsKeyArn": "string",
      "parameters": {
         "string" : "string"
      },
      "versionId": "string"
   },
   "kmsKeyArn": "string",
   "membershipArn": "string",
   "membershipId": "string",
   "name": "string",
   "populationAnalysisConfiguration": { ... },
   "retentionInDays": number,
   "schema": {
      "columns": [
         {
            "name": "string",
            "type": "string"
         }
      ]
   },
   "status": "string",
   "statusReason": "string",
   "tableDependencies": [
      {
         "creatorAccountId": "string",
         "id": "string",
         "name": "string",
         "parentType": "string",
```

```
            "type": "string"
         }
      ],
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

intermediateTable

The intermediate table that was created.

Type: IntermediateTable object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateIntermediateTableAnalysisRule

Creates an analysis rule for an intermediate table. Only the CUSTOM analysis rule type is supported. Only the intermediate table owner can call this operation.

Request Syntax

```
POST /memberships/membershipIdentifier/intermediateTables/intermediateTableIdentifier/
analysisRule HTTP/1.1
Content-type: application/json

{
   "analysisRulePolicy": { ... },
   "analysisRuleType": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

intermediateTableIdentifier

The unique identifier of the intermediate table for which to create the analysis rule.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the intermediate table.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analysisRulePolicy

The analysis rule policy to apply to the intermediate table.

Type: IntermediateTableAnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

analysisRuleType

The type of analysis rule to create. Currently, only CUSTOM is supported.

Type: String

Valid Values: CUSTOM

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisRule": {
      "analysisRulePolicy": { ... },
      "analysisRuleType": "string",
      "createTime": number,
      "intermediateTableArn": "string",
      "intermediateTableIdentifier": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRule

The analysis rule that was created for the intermediate table.

Type: IntermediateTableAnalysisRule object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateMembership

Creates a membership for a specific collaboration identifier and joins the collaboration.

Request Syntax

```
POST /memberships HTTP/1.1
Content-type: application/json

{
   "collaborationIdentifier": "string",
   "defaultJobResultConfiguration": {
      "outputConfiguration": { ... },
      "roleArn": "string"
   },
   "defaultResultConfiguration": {
      "outputConfiguration": { ... },
      "roleArn": "string"
   },
   "isMetricsEnabled": boolean,
   "jobLogStatus": "string",
   "paymentConfiguration": {
      "jobCompute": {
         "isResponsible": boolean
      },
      "machineLearning": {
         "modelInference": {
            "isResponsible": boolean
         },
         "modelTraining": {
            "isResponsible": boolean
         },
         "syntheticDataGeneration": {
            "isResponsible": boolean
         }
      },
      "queryCompute": {
         "isResponsible": boolean
      }
   },
   "queryLogStatus": "string",
   "tags": {
      "string" : "string"
```

```
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

collaborationIdentifier

The unique ID for the associated collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

defaultJobResultConfiguration

The default job result configuration that determines how job results are protected and managed within this membership. This configuration applies to all jobs.

Type: MembershipProtectedJobResultConfiguration object

Required: No

defaultResultConfiguration

The default protected query result configuration as specified by the member who can receive results.

Type: MembershipProtectedQueryResultConfiguration object

Required: No

isMetricsEnabled

An indicator as to whether Amazon CloudWatch metrics have been enabled or disabled for the membership.

Amazon CloudWatch metrics are only available when the collaboration has metrics enabled. This option can be set by collaboration members who have the ability to run queries (analysis runners) or by members who are configured as payers.

When `true`, metrics about query execution are collected in Amazon CloudWatch. The default value is `false`.

Type: Boolean

Required: No

jobLogStatus

An indicator as to whether job logging has been enabled or disabled for the collaboration.

When `ENABLED`, AWS Clean Rooms logs details about jobs run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

paymentConfiguration

The payment responsibilities accepted by the collaboration member.

Not required if the collaboration member has the member ability to run queries.

Required if the collaboration member doesn't have the member ability to run queries but is configured as a payer by the collaboration creator.

Type: MembershipPaymentConfiguration object

Required: No

queryLogStatus

An indicator as to whether query logging has been enabled or disabled for the membership.

When `ENABLED`, AWS Clean Rooms logs details about queries run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: Yes

tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "membership": {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationCreatorAccountId": "string",
      "collaborationCreatorDisplayName": "string",
      "collaborationId": "string",
      "collaborationName": "string",
      "createTime": number,
      "defaultJobResultConfiguration": {
         "outputConfiguration": { ... },
         "roleArn": "string"
      },
      "defaultResultConfiguration": {
         "outputConfiguration": { ... },
         "roleArn": "string"
      },
```

```
      "id": "string",
      "isMetricsEnabled": boolean,
      "jobLogStatus": "string",
      "memberAbilities": [ "string" ],
      "mlMemberAbilities": {
         "customMLMemberAbilities": [ "string" ]
      },
      "paymentConfiguration": {
         "jobCompute": {
            "isResponsible": boolean
         },
         "machineLearning": {
            "modelInference": {
               "isResponsible": boolean
            },
            "modelTraining": {
               "isResponsible": boolean
            },
            "syntheticDataGeneration": {
               "isResponsible": boolean
            }
         },
         "queryCompute": {
            "isResponsible": boolean
         }
      },
      "queryLogStatus": "string",
      "status": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

membership

The membership that was created.

Type: Membership object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreatePrivacyBudgetTemplate

Creates a privacy budget template for a specified collaboration. Each collaboration can have only one privacy budget template. If you need to change the privacy budget template, use the UpdatePrivacyBudgetTemplate operation.

Request Syntax

```
POST /memberships/membershipIdentifier/privacybudgettemplates HTTP/1.1
Content-type: application/json

{
   "autoRefresh": "string",
   "parameters": { ... },
   "privacyBudgetType": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget template is created in the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

autoRefresh

How often the privacy budget refreshes.

> **Important**
>
> If you plan to regularly bring new data into the collaboration, you can use `CALENDAR_MONTH` to automatically get a new privacy budget for the collaboration every calendar month. Choosing this option allows arbitrary amounts of information to be revealed about rows of the data when repeatedly queries across refreshes. Avoid choosing this if the same rows will be repeatedly queried between privacy budget refreshes.

Type: String

Valid Values: `CALENDAR_MONTH | NONE`

Required: No

parameters

Specifies your parameters for the privacy budget template.

Type: PrivacyBudgetTemplateParametersInput object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

privacyBudgetType

Specifies the type of the privacy budget template.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY | ACCESS_BUDGET`

Required: Yes

tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "privacyBudgetTemplate": {
      "arn": "string",
      "autoRefresh": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "parameters": { ... },
      "privacyBudgetType": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

privacyBudgetTemplate

A summary of the elements in the privacy budget template.

Type: PrivacyBudgetTemplate object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteAnalysisTemplate

Deletes an analysis template.

Request Syntax

```
DELETE /memberships/membershipIdentifier/analysistemplates/analysisTemplateIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisTemplateIdentifier

The identifier for the analysis template resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteCollaboration

Deletes a collaboration. It can only be called by the collaboration owner.

Request Syntax

```
DELETE /collaborations/collaborationIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The identifier for the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteConfiguredAudienceModelAssociation

Provides the information necessary to delete a configured audience model association.

Request Syntax

```
DELETE /memberships/membershipIdentifier/
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredAudienceModelAssociationIdentifier

A unique identifier of the configured audience model association that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

A unique identifier of the membership that contains the audience model association that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteConfiguredTable

Deletes a configured table.

Request Syntax

```
DELETE /configuredTables/configuredTableIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredTableIdentifier

The unique ID for the configured table to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteConfiguredTableAnalysisRule

Deletes a configured table analysis rule.

Request Syntax

```
DELETE /configuredTables/configuredTableIdentifier/analysisRule/analysisRuleType
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisRuleType

The analysis rule type to be deleted. Configured table analysis rules are uniquely identified by their configured table identifier and analysis rule type.

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

configuredTableIdentifier

The unique identifier for the configured table that the analysis rule applies to. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteConfiguredTableAssociation

Deletes a configured table association.

Request Syntax

```
DELETE /memberships/membershipIdentifier/
configuredTableAssociations/configuredTableAssociationIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredTableAssociationIdentifier

The unique ID for the configured table association to be deleted. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteConfiguredTableAssociationAnalysisRule

Deletes an analysis rule for a configured table association.

Request Syntax

```
DELETE /memberships/membershipIdentifier/
configuredTableAssociations/configuredTableAssociationIdentifier/
analysisRule/analysisRuleType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisRuleType

The type of the analysis rule that you want to delete.

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

configuredTableAssociationIdentifier

The identifier for the configured table association that's related to the analysis rule that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteIdMappingTable

Deletes an ID mapping table.

Request Syntax

```
DELETE /memberships/membershipIdentifier/idmappingtables/idMappingTableIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

idMappingTableIdentifier

The unique identifier of the ID mapping table that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the ID mapping table that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteIdNamespaceAssociation

Deletes an ID namespace association.

Request Syntax

```
DELETE /memberships/membershipIdentifier/
idnamespaceassociations/idNamespaceAssociationIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

idNamespaceAssociationIdentifier

The unique identifier of the ID namespace association that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the ID namespace association that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteIntermediateTable

Deletes an intermediate table. The delete is idempotent. Only the intermediate table owner can call this operation.

Request Syntax

```
DELETE /memberships/membershipIdentifier/intermediateTables/intermediateTableIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

intermediateTableIdentifier

The unique identifier of the intermediate table to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the intermediate table.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteIntermediateTableAnalysisRule

Deletes an analysis rule from an intermediate table. After the analysis rule is deleted, the intermediate table becomes unqueryable until a new analysis rule is attached. Only the intermediate table owner can call this operation.

Request Syntax

```
DELETE /memberships/membershipIdentifier/
intermediateTables/intermediateTableIdentifier/analysisRule/analysisRuleType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisRuleType

The type of analysis rule to delete. Currently, only CUSTOM is supported.

Valid Values: CUSTOM

Required: Yes

intermediateTableIdentifier

The unique identifier of the intermediate table from which to delete the analysis rule.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the intermediate table.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteMember

Removes the specified member from a collaboration. The removed member is placed in the Removed status and can't interact with the collaboration. The removed member's data is inaccessible to active members of the collaboration.

Request Syntax

```
DELETE /collaborations/collaborationIdentifier/member/accountId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

accountId

The account ID of the member to remove.

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

collaborationIdentifier

The unique identifier for the associated collaboration.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteMembership

Deletes a specified membership. All resources under a membership must be deleted.

Request Syntax

```
DELETE /memberships/membershipIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeletePrivacyBudgetTemplate

Deletes a privacy budget template for a specified collaboration.

Request Syntax

```
DELETE /memberships/membershipIdentifier/
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget template is deleted from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

privacyBudgetTemplateIdentifier

A unique identifier for your privacy budget template.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DisallowIntermediateTable

Marks an intermediate table as invalid when it references the caller's base table. The data provider (base table owner) calls this operation, not the intermediate table owner. By default, the operation also marks all descendant intermediate tables as invalid.

Request Syntax

```
POST /memberships/membershipIdentifier/disallowIntermediateTable HTTP/1.1
Content-type: application/json

{
   "includeDescendants": boolean,
   "intermediateTableName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The unique identifier of the membership that contains the intermediate table to disallow.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

includeDescendants

Specifies whether to cascade the disallow action to descendant intermediate tables. Default is `true`.

Type: Boolean

Required: No

intermediateTableName

The name of the intermediate table to disallow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetAnalysisLogExport

Returns information about an analysis log export, including its current status and, if the export failed, the reason for the failure.

Poll this operation until the `status` is SUCCESS or `FAILED`. An export can't be canceled after it starts.

Request Syntax

```
GET /memberships/membershipIdentifier/analysislogexports/analysisLogExportIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisLogExportIdentifier

The unique identifier of the analysis log export to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

A unique identifier for the membership that the analysis log export belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisLogExport": {
      "analysisId": "string",
      "analysisLogExportId": "string",
      "analysisType": "string",
      "createTime": number,
      "error": {
         "code": "string",
         "message": "string"
      },
      "membershipId": "string",
      "resultConfiguration": {
         "outputConfiguration": {
            "s3": {
               "bucket": "string",
               "keyPrefix": "string"
            }
         }
      },
      "status": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisLogExport

The analysis log export processing metadata.

Type: AnalysisLogExport object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetAnalysisTemplate

Retrieves an analysis template.

Request Syntax

```
GET /memberships/membershipIdentifier/analysistemplates/analysisTemplateIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisTemplateIdentifier

The identifier for the analysis template resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
   "analysisTemplate": {
      "analysisParameters": [
         {
            "defaultValue": "string",
            "name": "string",
            "type": "string"
         }
      ],
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "errorMessageConfiguration": {
         "type": "string"
      },
      "format": "string",
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "schema": {
         "referencedTables": [ "string" ]
      },
      "source": { ... },
      "sourceMetadata": { ... },
      "syntheticDataParameters": { ... },
      "updateTime": number,
      "validations": [
         {
            "reasons": [
               {
                  "message": "string"
               }
            ],
            "status": "string",
            "type": "string"
         }
      ]
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisTemplate

The analysis template.

Type: AnalysisTemplate object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetCollaboration

Returns metadata about a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The identifier for the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaboration": {
      "allowedResultRegions": [ "string" ],
      "analyticsEngine": "string",
      "arn": "string",
      "autoApprovedChangeTypes": [ "string" ],
      "createTime": number,
      "creatorAccountId": "string",
      "creatorDisplayName": "string",
      "dataEncryptionMetadata": {
```

```
            "allowCleartext": boolean,
            "allowDuplicates": boolean,
            "allowJoinsOnColumnsWithDifferentNames": boolean,
            "preserveNulls": boolean
        },
        "description": "string",
        "id": "string",
        "isMetricsEnabled": boolean,
        "jobLogStatus": "string",
        "membershipArn": "string",
        "membershipId": "string",
        "memberStatus": "string",
        "name": "string",
        "queryLogStatus": "string",
        "updateTime": number
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaboration

The entire collaboration for this identifier.

Type: Collaboration object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetCollaborationAnalysisTemplate

Retrieves an analysis template within a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/analysistemplates/analysisTemplateArn
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisTemplateArn

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

collaborationIdentifier

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "collaborationAnalysisTemplate": {
      "analysisParameters": [
         {
            "defaultValue": "string",
            "name": "string",
            "type": "string"
         }
      ],
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "errorMessageConfiguration": {
         "type": "string"
      },
      "format": "string",
      "id": "string",
      "name": "string",
      "schema": {
         "referencedTables": [ "string" ]
      },
      "source": { ... },
      "sourceMetadata": { ... },
      "syntheticDataParameters": { ... },
      "updateTime": number,
      "validations": [
         {
            "reasons": [
               {
                  "message": "string"
               }
            ],
            "status": "string",
            "type": "string"
         }
      ]
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationAnalysisTemplate

The analysis template within a collaboration.

Type: CollaborationAnalysisTemplate object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetCollaborationChangeRequest

Retrieves detailed information about a specific collaboration change request.

Request Syntax

```
GET /collaborations/collaborationIdentifier/changeRequests/changeRequestIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

changeRequestIdentifier

A unique identifier for the change request to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

collaborationIdentifier

The identifier of the collaboration that the change request is made against.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "collaborationChangeRequest": {
      "approvals": {
         "string" : {
            "status": "string"
         }
      },
      "changes": [
         {
            "specification": { ... },
            "specificationType": "string",
            "types": [ "string" ]
         }
      ],
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "isAutoApproved": boolean,
      "status": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationChangeRequest

The collaboration change request that was requested.

Type: CollaborationChangeRequest object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetCollaborationConfiguredAudienceModelAssociation

Retrieves a configured audience model association within a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

A unique identifier for the collaboration that the configured audience model association belongs to. Accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredAudienceModelAssociationIdentifier

A unique identifier for the configured audience model association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "collaborationConfiguredAudienceModelAssociation": {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "configuredAudienceModelArn": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "id": "string",
      "name": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationConfiguredAudienceModelAssociation

The metadata of the configured audience model association.

Type: CollaborationConfiguredAudienceModelAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetCollaborationIdNamespaceAssociation

Retrieves an ID namespace association from a specific collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/
idnamespaceassociations/idNamespaceAssociationIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The unique identifier of the collaboration that contains the ID namespace association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

idNamespaceAssociationIdentifier

The unique identifier of the ID namespace association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "collaborationIdNamespaceAssociation": {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "id": "string",
      "idMappingConfig": {
         "allowUseAsDimensionColumn": boolean
      },
      "inputReferenceConfig": {
         "inputReferenceArn": "string",
         "manageResourcePolicies": boolean
      },
      "inputReferenceProperties": {
         "idMappingWorkflowsSupported": [ JSON value ],
         "idNamespaceType": "string"
      },
      "name": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationIdNamespaceAssociation

The ID namespace association that you requested.

Type: CollaborationIdNamespaceAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetCollaborationPrivacyBudgetTemplate

Returns details about a specified privacy budget template.

Request Syntax

```
GET /collaborations/collaborationIdentifier/
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

A unique identifier for one of your collaborations.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

privacyBudgetTemplateIdentifier

A unique identifier for one of your privacy budget templates.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "collaborationPrivacyBudgetTemplate": {
      "arn": "string",
      "autoRefresh": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "id": "string",
      "parameters": { ... },
      "privacyBudgetType": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationPrivacyBudgetTemplate

Returns the details of the privacy budget template that you requested.

Type: CollaborationPrivacyBudgetTemplate object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetConfiguredAudienceModelAssociation

Returns information about a configured audience model association.

Request Syntax

```
GET /memberships/membershipIdentifier/
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredAudienceModelAssociationIdentifier

A unique identifier for the configured audience model association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

A unique identifier for the membership that contains the configured audience model association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "configuredAudienceModelAssociation": {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "configuredAudienceModelArn": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "manageResourcePolicies": boolean,
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredAudienceModelAssociation

Information about the configured audience model association that you requested.

Type: ConfiguredAudienceModelAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetConfiguredTable

Retrieves a configured table.

Request Syntax

```
GET /configuredTables/configuredTableIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredTableIdentifier

The unique ID for the configured table to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredTable": {
      "allowedColumns": [ "string" ],
      "analysisMethod": "string",
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "name": "string",
```

```
      "selectedAnalysisMethods": [ "string" ],
      "tableReference": { ... },
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredTable

The retrieved configured table.

Type: ConfiguredTable object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetConfiguredTableAnalysisRule

Retrieves a configured table analysis rule.

Request Syntax

```
GET /configuredTables/configuredTableIdentifier/analysisRule/analysisRuleType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisRuleType

The analysis rule to be retrieved. Configured table analysis rules are uniquely identified by their configured table identifier and analysis rule type.

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

configuredTableIdentifier

The unique identifier for the configured table to retrieve. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "analysisRule": {
      "configuredTableArn": "string",
      "configuredTableId": "string",
      "createTime": number,
      "policy": { ... },
      "type": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRule

The entire analysis rule output.

Type: ConfiguredTableAnalysisRule object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetConfiguredTableAssociation

Retrieves a configured table association.

Request Syntax

```
GET /memberships/membershipIdentifier/
configuredTableAssociations/configuredTableAssociationIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configuredTableAssociationIdentifier

The unique ID for the configured table association to retrieve. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "configuredTableAssociation": {
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "childResources": [
         {
            "ownerAccountId": "string",
            "resourceId": "string",
            "resourceName": "string",
            "resourceStatus": "string",
            "resourceType": "string"
         }
      ],
      "configuredTableArn": "string",
      "configuredTableId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "roleArn": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredTableAssociation

The entire configured table association object.

Type: ConfiguredTableAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetConfiguredTableAssociationAnalysisRule

Retrieves the analysis rule for a configured table association.

Request Syntax

```
GET /memberships/membershipIdentifier/
configuredTableAssociations/configuredTableAssociationIdentifier/
analysisRule/analysisRuleType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisRuleType

The type of analysis rule that you want to retrieve.

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

configuredTableAssociationIdentifier

The identifier for the configured table association that's related to the analysis rule.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisRule": {
      "configuredTableAssociationArn": "string",
      "configuredTableAssociationId": "string",
      "createTime": number,
      "membershipIdentifier": "string",
      "policy": { ... },
      "type": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRule

The analysis rule for the configured table association. In the console, the `ConfiguredTableAssociationAnalysisRule` is referred to as the *collaboration analysis rule*.

Type: ConfiguredTableAssociationAnalysisRule object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetIdMappingTable

Retrieves an ID mapping table.

Request Syntax

```
GET /memberships/membershipIdentifier/idmappingtables/idMappingTableIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

idMappingTableIdentifier

The unique identifier of the ID mapping table identifier that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the ID mapping table that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "idMappingTable": {
      "arn": "string",
      "childResources": [
         {
            "ownerAccountId": "string",
            "resourceId": "string",
            "resourceName": "string",
            "resourceStatus": "string",
            "resourceType": "string"
         }
      ],
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "inputReferenceConfig": {
         "inputReferenceArn": "string",
         "manageResourcePolicies": boolean
      },
      "inputReferenceProperties": {
         "idMappingTableInputSource": [
            {
               "idNamespaceAssociationId": "string",
               "type": "string"
            }
         ]
      },
      "kmsKeyArn": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

idMappingTable

The ID mapping table that you requested.

Type: IdMappingTable object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetIdNamespaceAssociation

Retrieves an ID namespace association.

Request Syntax

```
GET /memberships/membershipIdentifier/
idnamespaceassociations/idNamespaceAssociationIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

idNamespaceAssociationIdentifier

The unique identifier of the ID namespace association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the ID namespace association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "idNamespaceAssociation": {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "idMappingConfig": {
         "allowUseAsDimensionColumn": boolean
      },
      "inputReferenceConfig": {
         "inputReferenceArn": "string",
         "manageResourcePolicies": boolean
      },
      "inputReferenceProperties": {
         "idMappingWorkflowsSupported": [ JSON value ],
         "idNamespaceType": "string"
      },
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

idNamespaceAssociation

The ID namespace association that you requested.

Type: IdNamespaceAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetIntermediateTable

Retrieves an intermediate table. Returns the full details of the intermediate table, including schema, table dependencies, inherited constraints, child resources, and status. Only the intermediate table owner can call this operation.

Request Syntax

```
GET /memberships/membershipIdentifier/intermediateTables/intermediateTableIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

intermediateTableIdentifier

The unique identifier of the intermediate table to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the intermediate table.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "intermediateTable": {
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "childResources": [
         {
            "ownerAccountId": "string",
            "resourceId": "string",
            "resourceName": "string",
            "resourceStatus": "string",
            "resourceType": "string"
         }
      ],
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "intermediateTableVersion": {
         "analysisId": "string",
         "analysisType": "string",
         "expirationTime": number,
         "inheritedConstraints": {
            "additionalAnalyses": {
               "sources": [
                  {
                     "id": "string",
                     "name": "string",
                     "sourceAccountId": "string",
                     "type": "string",
                     "value": "string"
                  }
               ],
               "value": "string"
            },
            "allowedAdditionalAnalyses": {
               "sources": [
                  {
                     "id": "string",
                     "name": "string",
                     "sourceAccountId": "string",
                     "type": "string",
```

```
                    "value": [ "string" ]
                 }
              ],
              "value": [ "string" ]
           },
           "allowedResultReceivers": {
              "sources": [
                 {
                    "id": "string",
                    "name": "string",
                    "sourceAccountId": "string",
                    "type": "string",
                    "value": [ "string" ]
                 }
              ],
              "value": [ "string" ]
           },
           "disallowedOutputColumns": {
              "columnLineage": [
                 {
                    "column": "string",
                    "sourceAccountId": "string",
                    "sourceColumn": "string",
                    "sourceId": "string",
                    "sourceName": "string",
                    "sourceType": "string"
                 }
              ],
              "value": [ "string" ]
           }
        },
        "kmsKeyArn": "string",
        "parameters": {
           "string" : "string"
        },
        "versionId": "string"
     },
     "kmsKeyArn": "string",
     "membershipArn": "string",
     "membershipId": "string",
     "name": "string",
     "populationAnalysisConfiguration": { ... },
     "retentionInDays": number,
     "schema": {
```

```
            "columns": [
               {
                  "name": "string",
                  "type": "string"
               }
            ]
         },
         "status": "string",
         "statusReason": "string",
         "tableDependencies": [
            {
               "creatorAccountId": "string",
               "id": "string",
               "name": "string",
               "parentType": "string",
               "type": "string"
            }
         ],
         "updateTime": number
      }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

intermediateTable

The intermediate table retrieved.

Type: IntermediateTable object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetIntermediateTableAnalysisRule

Retrieves the analysis rule for an intermediate table.

Request Syntax

```
GET /memberships/membershipIdentifier/intermediateTables/intermediateTableIdentifier/
analysisRule/analysisRuleType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisRuleType

The type of analysis rule to retrieve. Currently, only CUSTOM is supported.

Valid Values: CUSTOM

Required: Yes

intermediateTableIdentifier

The unique identifier of the intermediate table for which to retrieve the analysis rule.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the intermediate table.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisRule": {
      "analysisRulePolicy": { ... },
      "analysisRuleType": "string",
      "createTime": number,
      "intermediateTableArn": "string",
      "intermediateTableIdentifier": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRule

The analysis rule for the intermediate table.

Type: IntermediateTableAnalysisRule object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetMembership

Retrieves a specified membership for an identifier.

Request Syntax

```
GET /memberships/membershipIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "membership": {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationCreatorAccountId": "string",
      "collaborationCreatorDisplayName": "string",
      "collaborationId": "string",
      "collaborationName": "string",
      "createTime": number,
      "defaultJobResultConfiguration": {
         "outputConfiguration": { ... },
```

```
            "roleArn": "string"
         },
         "defaultResultConfiguration": {
            "outputConfiguration": { ... },
            "roleArn": "string"
         },
         "id": "string",
         "isMetricsEnabled": boolean,
         "jobLogStatus": "string",
         "memberAbilities": [ "string" ],
         "mlMemberAbilities": {
            "customMLMemberAbilities": [ "string" ]
         },
         "paymentConfiguration": {
            "jobCompute": {
               "isResponsible": boolean
            },
            "machineLearning": {
               "modelInference": {
                  "isResponsible": boolean
               },
               "modelTraining": {
                  "isResponsible": boolean
               },
               "syntheticDataGeneration": {
                  "isResponsible": boolean
               }
            },
            "queryCompute": {
               "isResponsible": boolean
            }
         },
         "queryLogStatus": "string",
         "status": "string",
         "updateTime": number
      }
   }
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

membership

The membership retrieved for the provided identifier.

Type: Membership object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetPrivacyBudgetTemplate

Returns details for a specified privacy budget template.

Request Syntax

```
GET /memberships/membershipIdentifier/
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget template is retrieved from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

privacyBudgetTemplateIdentifier

A unique identifier for your privacy budget template.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "privacyBudgetTemplate": {
      "arn": "string",
      "autoRefresh": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "parameters": { ... },
      "privacyBudgetType": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

privacyBudgetTemplate

Returns the details of the privacy budget template that you requested.

Type: PrivacyBudgetTemplate object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetProtectedJob

Returns job processing metadata.

Request Syntax

```
GET /memberships/membershipIdentifier/protectedJobs/protectedJobIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The identifier for a membership in a protected job instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

protectedJobIdentifier

The identifier for the protected job instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "protectedJob": {
      "computeConfiguration": { ... },
      "createTime": number,
      "error": {
         "code": "string",
         "message": "string"
      },
      "id": "string",
      "jobComputePayerAccountId": "string",
      "jobParameters": {
         "analysisTemplateArn": "string",
         "parameters": {
            "string" : "string"
         }
      },
      "membershipArn": "string",
      "membershipId": "string",
      "result": {
         "output": { ... }
      },
      "resultConfiguration": {
         "outputConfiguration": { ... }
      },
      "statistics": {
         "billedResourceUtilization": {
            "units": number
         },
         "totalDurationInMillis": number
      },
      "status": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

protectedJob

The protected job metadata.

Type: ProtectedJob object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetProtectedQuery

Returns query processing metadata.

Request Syntax

```
GET /memberships/membershipIdentifier/protectedQueries/protectedQueryIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The identifier for a membership in a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

protectedQueryIdentifier

The identifier for a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
   "protectedQuery": {
      "computeConfiguration": { ... },
      "createTime": number,
      "differentialPrivacy": {
         "sensitivityParameters": [
            {
               "aggregationExpression": "string",
               "aggregationType": "string",
               "maxColumnValue": number,
               "minColumnValue": number,
               "userContributionLimit": number
            }
         ]
      },
      "error": {
         "code": "string",
         "message": "string"
      },
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "queryComputePayerAccountId": "string",
      "result": {
         "output": { ... }
      },
      "resultConfiguration": {
         "outputConfiguration": { ... }
      },
      "sqlParameters": {
         "analysisTemplateArn": "string",
         "parameters": {
            "string" : "string"
         },
         "queryString": "string"
      },
      "statistics": {
         "billedResourceUtilization": {
            "units": number
         },
         "totalDurationInMillis": number
      },
      "status": "string"
   }
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

protectedQuery

The query processing metadata.

Type: ProtectedQuery object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetSchema

Retrieves the schema for a relation within a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/schemas/name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

A unique identifier for the collaboration that the schema belongs to. Currently accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the relation to retrieve the schema for.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
   "schema": {
      "analysisMethod": "string",
      "analysisRuleTypes": [ "string" ],
      "collaborationArn": "string",
      "collaborationId": "string",
      "columns": [
         {
            "name": "string",
            "type": "string"
         }
      ],
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "name": "string",
      "partitionKeys": [
         {
            "name": "string",
            "type": "string"
         }
      ],
      "resourceArn": "string",
      "schemaStatusDetails": [
         {
            "analysisRuleType": "string",
            "analysisType": "string",
            "configurations": [ "string" ],
            "reasons": [
               {
                  "code": "string",
                  "message": "string"
               }
            ],
            "status": "string"
         }
      ],
      "schemaTypeProperties": { ... },
      "selectedAnalysisMethods": [ "string" ],
      "type": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

schema

The entire schema object.

Type: Schema object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetSchemaAnalysisRule

Retrieves a schema analysis rule.

Request Syntax

```
GET /collaborations/collaborationIdentifier/schemas/name/analysisRule/type HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

A unique identifier for the collaboration that the schema belongs to. Currently accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the schema to retrieve the analysis rule for.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

type

The type of the schema analysis rule to retrieve. Schema analysis rules are uniquely identified by a combination of the collaboration, the schema name, and their type.

Valid Values: `AGGREGATION | LIST | CUSTOM | ID_MAPPING_TABLE`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisRule": {
      "collaborationId": "string",
      "collaborationPolicy": { ... },
      "consolidatedPolicy": { ... },
      "createTime": number,
      "name": "string",
      "policy": { ... },
      "type": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRule

A specification about how data from the configured table can be used.

Type: AnalysisRule object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListAnalysisLogExports

Lists analysis log exports, sorted by the most recent export. Results are paginated. Use the `nextToken` parameter to retrieve additional results.

Request Syntax

```
GET /memberships/membershipIdentifier/analysislogexports?
analysisIdentifier=analysisIdentifier&maxResults=maxResults&nextToken=nextToken&status=status
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

analysisIdentifier

A filter on the unique identifier of the protected query that the analysis logs were exported for.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

A unique identifier for the membership to list analysis log exports for. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

status

A filter on the status of the analysis log export.

Valid Values: `IN_PROGRESS | SUCCESS | FAILED`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisLogExports": [
      {
         "analysisId": "string",
         "analysisLogExportId": "string",
         "analysisType": "string",
         "createTime": number,
         "status": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisLogExports

A list of analysis log exports.

Type: Array of AnalysisLogExportSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListAnalysisTemplates

Lists analysis templates that the caller owns.

Request Syntax

```
GET /memberships/membershipIdentifier/analysistemplates?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisTemplateSummaries": [
      {
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "description": "string",
         "id": "string",
         "isSyntheticData": boolean,
         "membershipArn": "string",
         "membershipId": "string",
         "name": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisTemplateSummaries

Lists analysis template metadata.

Type: Array of AnalysisTemplateSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListCollaborationAnalysisTemplates

Lists analysis templates within a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/analysistemplates?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationAnalysisTemplateSummaries": [
      {
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "creatorAccountId": "string",
         "description": "string",
         "id": "string",
         "isSyntheticData": boolean,
         "name": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationAnalysisTemplateSummaries

The metadata of the analysis template within a collaboration.

Type: Array of CollaborationAnalysisTemplateSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListCollaborationChangeRequests

Lists all change requests for a collaboration with pagination support. Returns change requests sorted by creation time.

Request Syntax

```
GET /collaborations/collaborationIdentifier/changeRequests?
maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The identifier of the collaboration that the change request is made against.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum number of results that are returned for an API request call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

status

A filter to only return change requests with the specified status.

Valid Values: `PENDING | APPROVED | CANCELLED | DENIED | COMMITTED`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationChangeRequestSummaries": [
      {
         "approvals": {
            "string" : {
               "status": "string"
            }
         },
         "changes": [
            {
               "specification": { ... },
               "specificationType": "string",
               "types": [ "string" ]
            }
         ],
         "collaborationId": "string",
         "createTime": number,
         "id": "string",
         "isAutoApproved": boolean,
         "status": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationChangeRequestSummaries

The list of collaboration change request summaries.

Type: Array of CollaborationChangeRequestSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListCollaborationConfiguredAudienceModelAssociations

Lists configured audience model associations within a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/configuredaudiencemodelassociations?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

A unique identifier for the collaboration that the configured audience model association belongs to. Accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationConfiguredAudienceModelAssociationSummaries": [
      {
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "creatorAccountId": "string",
         "description": "string",
         "id": "string",
         "name": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationConfiguredAudienceModelAssociationSummaries

The metadata of the configured audience model association within a collaboration.

Type: Array of CollaborationConfiguredAudienceModelAssociationSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListCollaborationIdNamespaceAssociations

Returns a list of the ID namespace associations in a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/idnamespaceassociations?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The unique identifier of the collaboration that contains the ID namespace associations that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a nextToken even if the maximum results has not been met.>

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationIdNamespaceAssociationSummaries": [
      {
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "creatorAccountId": "string",
         "description": "string",
         "id": "string",
         "inputReferenceConfig": {
            "inputReferenceArn": "string",
            "manageResourcePolicies": boolean
         },
         "inputReferenceProperties": {
            "idNamespaceType": "string"
         },
         "name": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationIdNamespaceAssociationSummaries

The summary information of the collaboration ID namespace associations that you requested.

Type: Array of CollaborationIdNamespaceAssociationSummary objects

nextToken

The token value provided to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListCollaborationPrivacyBudgets

Returns an array that summarizes each privacy budget in a specified collaboration. The summary includes the collaboration ARN, creation time, creating account, and privacy budget details.

Request Syntax

```
GET /collaborations/collaborationIdentifier/privacybudgets?
accessBudgetResourceArn=accessBudgetResourceArn&maxResults=maxResults&nextToken=nextToken&priva
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

accessBudgetResourceArn

The Amazon Resource Name (ARN) of the Configured Table Association (ConfiguredTableAssociation) used to filter privacy budgets.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/(configuredtableassociation|intermediatetable)/[\d\w-]+`

collaborationIdentifier

A unique identifier for one of your collaborations.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

privacyBudgetType

Specifies the type of the privacy budget.

Valid Values: `DIFFERENTIAL_PRIVACY | ACCESS_BUDGET`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationPrivacyBudgetSummaries": [
      {
         "budget": { ... },
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "creatorAccountId": "string",
         "id": "string",
         "privacyBudgetTemplateArn": "string",
         "privacyBudgetTemplateId": "string",
         "type": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationPrivacyBudgetSummaries

Summaries of the collaboration privacy budgets.

Type: Array of CollaborationPrivacyBudgetSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListCollaborationPrivacyBudgetTemplates

Returns an array that summarizes each privacy budget template in a specified collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/privacybudgettemplates?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

A unique identifier for one of your collaborations.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationPrivacyBudgetTemplateSummaries": [
      {
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "creatorAccountId": "string",
         "id": "string",
         "privacyBudgetType": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationPrivacyBudgetTemplateSummaries

An array that summarizes the collaboration privacy budget templates. The summary includes collaboration information, creation information, the privacy budget type.

Type: Array of CollaborationPrivacyBudgetTemplateSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListCollaborations

Lists collaborations the caller owns, is active in, or has been invited to.

Request Syntax

```
GET /collaborations?maxResults=maxResults&memberStatus=memberStatus&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

memberStatus

The caller's status in a collaboration.

Valid Values: `INVITED | ACTIVE`

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "collaborationList": [
      {
         "analyticsEngine": "string",
         "arn": "string",
         "createTime": number,
         "creatorAccountId": "string",
         "creatorDisplayName": "string",
         "id": "string",
         "membershipArn": "string",
         "membershipId": "string",
         "memberStatus": "string",
         "name": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationList

The list of collaborations.

Type: Array of CollaborationSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListConfiguredAudienceModelAssociations

Lists information about requested configured audience model associations.

Request Syntax

```
GET /memberships/membershipIdentifier/configuredaudiencemodelassociations?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

A unique identifier for a membership that contains the configured audience model associations that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredAudienceModelAssociationSummaries": [
      {
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "configuredAudienceModelArn": "string",
         "createTime": number,
         "description": "string",
         "id": "string",
         "membershipArn": "string",
         "membershipId": "string",
         "name": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredAudienceModelAssociationSummaries

Summaries of the configured audience model associations that you requested.

Type: Array of ConfiguredAudienceModelAssociationSummary objects

nextToken

The token value provided to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListConfiguredTableAssociations

Lists configured table associations for a membership.

Request Syntax

```
GET /memberships/membershipIdentifier/configuredTableAssociations?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

A unique identifier for the membership to list configured table associations for. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredTableAssociationSummaries": [
      {
         "analysisRuleTypes": [ "string" ],
         "arn": "string",
         "configuredTableId": "string",
         "createTime": number,
         "id": "string",
         "membershipArn": "string",
         "membershipId": "string",
         "name": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredTableAssociationSummaries

The retrieved list of configured table associations.

Type: Array of ConfiguredTableAssociationSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListConfiguredTables

Lists configured tables.

Request Syntax

```
GET /configuredTables?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredTableSummaries": [
      {
         "analysisMethod": "string",
         "analysisRuleTypes": [ "string" ],
```

```
            "arn": "string",
            "createTime": number,
            "id": "string",
            "name": "string",
            "selectedAnalysisMethods": [ "string" ],
            "updateTime": number
        }
    ],
    "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredTableSummaries

The configured tables listed by the request.

Type: Array of ConfiguredTableSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListIdMappingTables

Returns a list of ID mapping tables.

Request Syntax

```
GET /memberships/membershipIdentifier/idmappingtables?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a nextToken even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The unique identifier of the membership that contains the ID mapping tables that you want to view.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "idMappingTableSummaries": [
      {
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "description": "string",
         "id": "string",
         "inputReferenceConfig": {
            "inputReferenceArn": "string",
            "manageResourcePolicies": boolean
         },
         "membershipArn": "string",
         "membershipId": "string",
         "name": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

idMappingTableSummaries

The summary information of the ID mapping tables that you requested.

Type: Array of IdMappingTableSummary objects

nextToken

The token value provided to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListIdNamespaceAssociations

Returns a list of ID namespace associations.

Request Syntax

```
GET /memberships/membershipIdentifier/idnamespaceassociations?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a nextToken even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The unique identifier of the membership that contains the ID namespace association that you want to view.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "idNamespaceAssociationSummaries": [
      {
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "description": "string",
         "id": "string",
         "inputReferenceConfig": {
            "inputReferenceArn": "string",
            "manageResourcePolicies": boolean
         },
         "inputReferenceProperties": {
            "idNamespaceType": "string"
         },
         "membershipArn": "string",
         "membershipId": "string",
         "name": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

idNamespaceAssociationSummaries

The summary information of the ID namespace associations that you requested.

Type: Array of IdNamespaceAssociationSummary objects

nextToken

The token value provided to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListIntermediateTables

Lists intermediate tables owned by the caller in a membership. We recommend using pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
GET /memberships/membershipIdentifier/intermediateTables?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The unique identifier of the membership for which to list intermediate tables.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "intermediateTableSummaries": [
      {
         "analysisRuleTypes": [ "string" ],
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "description": "string",
         "id": "string",
         "membershipArn": "string",
         "membershipId": "string",
         "name": "string",
         "retentionInDays": number,
         "status": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

intermediateTableSummaries

The list of intermediate table summaries.

Type: Array of IntermediateTableSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListIntermediateTableVersions

Lists the version history of an intermediate table. Each call to `PopulateIntermediateTable` creates a new version. We recommend using pagination to ensure that the operation returns quickly and successfully.

Request Syntax

```
GET /memberships/membershipIdentifier/intermediateTables/intermediateTableIdentifier/
versions?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

intermediateTableIdentifier

The unique identifier of the intermediate table for which to list versions.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The unique identifier of the membership that contains the intermediate table.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "intermediateTableVersionSummaries": [
      {
         "analysisId": "string",
         "analysisType": "string",
         "createTime": number,
         "expirationTime": number,
         "kmsKeyArn": "string",
         "status": "string",
         "tableId": "string",
         "versionId": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

intermediateTableVersionSummaries

The list of intermediate table version summaries.

Type: Array of IntermediateTableVersionSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListMembers

Lists all members within a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/members?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The identifier of the collaboration in which the members are listed.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "memberSummaries": [
      {
         "abilities": [ "string" ],
         "accountId": "string",
         "createTime": number,
         "displayName": "string",
         "membershipArn": "string",
         "membershipId": "string",
         "mlAbilities": {
            "customMLMemberAbilities": [ "string" ]
         },
         "paymentConfiguration": {
            "jobCompute": {
               "isResponsible": boolean
            },
            "machineLearning": {
               "modelInference": {
                  "isResponsible": boolean
               },
               "modelTraining": {
                  "isResponsible": boolean
               },
               "syntheticDataGeneration": {
                  "isResponsible": boolean
               }
            },
            "queryCompute": {
               "isResponsible": boolean
            }
         },
         "status": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

memberSummaries

The list of members returned by the ListMembers operation.

Type: Array of MemberSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListMemberships

Lists all memberships resources within the caller's account.

Request Syntax

```
GET /memberships?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

status

A filter which will return only memberships in the specified status.

Valid Values: `ACTIVE | REMOVED | COLLABORATION_DELETED`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
   "membershipSummaries": [
      {
         "arn": "string",
         "collaborationArn": "string",
         "collaborationCreatorAccountId": "string",
         "collaborationCreatorDisplayName": "string",
         "collaborationId": "string",
         "collaborationName": "string",
         "createTime": number,
         "id": "string",
         "memberAbilities": [ "string" ],
         "mlMemberAbilities": {
            "customMLMemberAbilities": [ "string" ]
         },
         "paymentConfiguration": {
            "jobCompute": {
               "isResponsible": boolean
            },
            "machineLearning": {
               "modelInference": {
                  "isResponsible": boolean
               },
               "modelTraining": {
                  "isResponsible": boolean
               },
               "syntheticDataGeneration": {
                  "isResponsible": boolean
               }
            },
            "queryCompute": {
               "isResponsible": boolean
            }
         },
         "status": "string",
         "updateTime": number
      }
   ],
   "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

membershipSummaries

The list of memberships returned from the ListMemberships operation.

Type: Array of MembershipSummary objects

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListPrivacyBudgets

Returns detailed information about the privacy budgets in a specified membership.

Request Syntax

```
GET /memberships/membershipIdentifier/privacybudgets?
accessBudgetResourceArn=accessBudgetResourceArn&maxResults=maxResults&nextToken=nextToken&priva
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

accessBudgetResourceArn

The Amazon Resource Name (ARN) of the access budget resource to filter privacy budgets by.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/(configuredtableassociation|intermediatetable)/[\d\w-]+`

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget is retrieved from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

privacyBudgetType

The privacy budget type.

Valid Values: `DIFFERENTIAL_PRIVACY | ACCESS_BUDGET`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "privacyBudgetSummaries": [
      {
         "budget": { ... },
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "id": "string",
         "membershipArn": "string",
         "membershipId": "string",
         "privacyBudgetTemplateArn": "string",
         "privacyBudgetTemplateId": "string",
         "type": "string",
         "updateTime": number
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

privacyBudgetSummaries

An array that summarizes the privacy budgets. The summary includes collaboration information, membership information, privacy budget template information, and privacy budget details.

Type: Array of PrivacyBudgetSummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListPrivacyBudgetTemplates

Returns detailed information about the privacy budget templates in a specified membership.

Request Syntax

```
GET /memberships/membershipIdentifier/privacybudgettemplates?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget templates are retrieved from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "privacyBudgetTemplateSummaries": [
      {
         "arn": "string",
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "id": "string",
         "membershipArn": "string",
         "membershipId": "string",
         "privacyBudgetType": "string",
         "updateTime": number
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

privacyBudgetTemplateSummaries

An array that summarizes the privacy budget templates. The summary includes collaboration information, creation information, and privacy budget type.

Type: Array of PrivacyBudgetTemplateSummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListProtectedJobs

Lists protected jobs, sorted by most recent job.

Request Syntax

```
GET /memberships/membershipIdentifier/protectedJobs?
maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The identifier for the membership in the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

status

A filter on the status of the protected job.

Valid Values: `SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "protectedJobs": [
      {
         "createTime": number,
         "id": "string",
         "jobComputePayerAccountId": "string",
         "membershipArn": "string",
         "membershipId": "string",
         "receiverConfigurations": [
            {
               "analysisType": "string",
               "configurationDetails": { ... }
            }
         ],
         "status": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

protectedJobs

A list of protected job summaries.

Type: Array of ProtectedJobSummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListProtectedQueries

Lists protected queries, sorted by the most recent query.

Request Syntax

```
GET /memberships/membershipIdentifier/protectedQueries?
maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

membershipIdentifier

The identifier for the membership in the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

status

A filter on the status of the protected query.

Valid Values: `SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS | TIMED_OUT`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "protectedQueries": [
      {
         "createTime": number,
         "id": "string",
         "intermediateTableConfiguration": {
            "arn": "string",
            "id": "string",
            "name": "string"
         },
         "membershipArn": "string",
         "membershipId": "string",
         "queryComputePayerAccountId": "string",
         "receiverConfigurations": [
            {
               "analysisType": "string",
               "configurationDetails": { ... }
            }
         ],
         "status": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

protectedQueries

A list of protected queries.

Type: Array of ProtectedQuerySummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListSchemas

Lists the schemas for relations within a collaboration.

Request Syntax

```
GET /collaborations/collaborationIdentifier/schemas?
maxResults=maxResults&nextToken=nextToken&schemaType=schemaType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

A unique identifier for the collaboration that the schema belongs to. Currently accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

maxResults

The maximum number of results that are returned for an API request call. The service chooses a default number if you don't set one. The service might return a `nextToken` even if the `maxResults` value has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The pagination token that's used to fetch the next set of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

schemaType

If present, filter schemas by schema type.

Valid Values: `TABLE | ID_MAPPING_TABLE | INTERMEDIATE_TABLE`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "schemaSummaries": [
      {
         "analysisMethod": "string",
         "analysisRuleTypes": [ "string" ],
         "collaborationArn": "string",
         "collaborationId": "string",
         "createTime": number,
         "creatorAccountId": "string",
         "name": "string",
         "resourceArn": "string",
         "selectedAnalysisMethods": [ "string" ],
         "type": "string",
         "updateTime": number
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The pagination token that's used to fetch the next set of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

schemaSummaries

The retrieved list of schemas.

Type: Array of SchemaSummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListTagsForResource

Lists all of the tags that have been added to a resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) associated with the resource you want to list tags on.

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:[\d\w/-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tags

A map of objects specifying each key name and value.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

PopulateIdMappingTable

Defines the information that's necessary to populate an ID mapping table.

Request Syntax

```
POST /memberships/membershipIdentifier/idmappingtables/idMappingTableIdentifier/
populate HTTP/1.1
Content-type: application/json

{
   "jobType": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

idMappingTableIdentifier

The unique identifier of the ID mapping table that you want to populate.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the ID mapping table that you want to populate.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

jobType

The job type of the rule-based ID mapping job. Valid values include:

`INCREMENTAL`: Processes only new or changed data since the last job run. This is the default job type if the ID mapping workflow was created in AWS Entity Resolution with `incrementalRunConfig` specified.

`BATCH`: Processes all data from the input source, regardless of previous job runs. This is the default job type if the ID mapping workflow was created in AWS Entity Resolution but `incrementalRunConfig` wasn't specified.

`DELETE_ONLY`: Processes only deletion requests from `BatchDeleteUniqueId`, which is set in AWS Entity Resolution.

For more information about `incrementalRunConfig` and `BatchDeleteUniqueId`, see the AWS Entity Resolution API Reference.

Type: String

Valid Values: `BATCH | INCREMENTAL | DELETE_ONLY`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "idMappingJobId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

idMappingJobId

The unique identifier of the mapping job that will populate the ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

PopulateIntermediateTable

Runs the stored query of an intermediate table and makes the results available for querying. Each call creates a new version. Use `GetProtectedQuery` with the returned analysis ID to track progress. Only the intermediate table owner can call this operation.

Request Syntax

```
POST /memberships/membershipIdentifier/intermediateTables/intermediateTableIdentifier/
populate HTTP/1.1
Content-type: application/json

{
   "analysisPayerAccountId": "string",
   "computeConfiguration": { ... },
   "parameters": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

intermediateTableIdentifier

The unique identifier of the intermediate table to populate.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the intermediate table.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analysisPayerAccountId

The account ID of the member that pays for the analysis compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

computeConfiguration

The compute configuration for the population query execution.

Type: IntermediateTableComputeConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

parameters

The runtime parameter values that override the defaults in the stored query.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: [0-9a-zA-Z_]+

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "analysisId": "string",
   "analysisType": "string",
   "versionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisId

The identifier for the protected query execution that populated the intermediate table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

analysisType

The type of analysis performed to populate the intermediate table.

Type: String

Valid Values: QUERY

versionId

The unique identifier of the version created by this population operation.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

PreviewPrivacyImpact

An estimate of the number of aggregation functions that the member who can query can run given epsilon and noise parameters.

Request Syntax

```
POST /memberships/membershipIdentifier/previewprivacyimpact HTTP/1.1
Content-type: application/json

{
   "parameters": { ... }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

A unique identifier for one of your memberships for a collaboration. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

parameters

Specifies the desired epsilon and noise parameters to preview.

Type: PreviewPrivacyImpactParametersInput object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "privacyImpact": { ... }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

privacyImpact

An estimate of the number of aggregation functions that the member who can query can run given the epsilon and noise parameters. This does not change the privacy budget.

Type: PrivacyImpact object

Note: This object is a Union. Only one member of this object can be specified or returned.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

StartAnalysisLogExport

Starts an export of the Apache Spark logs for a protected query to an Amazon S3 bucket that you own. Use the exported logs to diagnose a query that failed or that ran more slowly than you expected.

AWS Clean Rooms exports a redacted copy of the Spark logs instead of the raw logs. Analyze the exported logs with the tooling of your choice, such as Spark History Server. For details about what the exported logs contain, see https://docs.aws.amazon.com/clean-rooms/latest/userguide/export-analysis-logs-contents.html.

The export runs asynchronously and returns with a `status` of `IN_PROGRESS`. Call `GetAnalysisLogExport` to poll for the final status.

> **Important**
>
> To use this operation, you must have the `CAN_EXPORT_QUERY_ANALYSIS_LOG` ability for your membership. You must also be the query runner or the query payer. Having the ability alone is not sufficient.
> The query must have reached a terminal state, and it must have reached the execution stage. A query that failed validation or that was canceled before it started produces no Spark logs.
> Log export isn't supported for queries that use differential privacy, and isn't supported for PySpark jobs.
> The destination bucket must be in the same AWS Region as the collaboration. Cross-Region export isn't supported.

For more information, see https://docs.aws.amazon.com/clean-rooms/latest/userguide/export-analysis-logs.html.

Request Syntax

```
POST /memberships/membershipIdentifier/analysislogexports HTTP/1.1
Content-type: application/json

{
   "analysisId": "string",
```

```
   "analysisType": "string",
   "resultConfiguration": {
      "outputConfiguration": {
         "s3": {
            "bucket": "string",
            "keyPrefix": "string"
         }
      }
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

A unique identifier for the membership to export the analysis logs for. Currently accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analysisId

The unique identifier of the protected query that you want to export the analysis logs for.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

analysisType

The type of analysis that the logs are exported for. Currently, only PROTECTED_QUERY is supported.

Type: String

Valid Values: PROTECTED_QUERY

Required: Yes

resultConfiguration

The details needed to write the exported analysis logs.

You don't need to create an IAM role for log export. AWS Clean Rooms writes the exported logs using your own identity, so AWS Clean Rooms writes the exported logs only where your existing permissions allow.

Type: AnalysisLogExportResultConfiguration object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisLogExport": {
      "analysisId": "string",
      "analysisLogExportId": "string",
      "analysisType": "string",
      "createTime": number,
      "error": {
         "code": "string",
         "message": "string"
      },
      "membershipId": "string",
      "resultConfiguration": {
         "outputConfiguration": {
            "s3": {
               "bucket": "string",
```

```
                "keyPrefix": "string"
            }
         }
      },
      "status": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisLogExport

The analysis log export that was started. The `status` is `IN_PROGRESS`.

Type: AnalysisLogExport object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

StartProtectedJob

Creates a protected job that is started by AWS Clean Rooms.

Request Syntax

```
POST /memberships/membershipIdentifier/protectedJobs HTTP/1.1
Content-type: application/json

{
   "computeConfiguration": { ... },
   "jobComputePayerAccountId": "string",
   "jobParameters": {
      "analysisTemplateArn": "string",
      "parameters": {
         "string" : "string"
      }
   },
   "resultConfiguration": {
      "outputConfiguration": { ... }
   },
   "type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

A unique identifier for the membership to run this job against. Currently accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

computeConfiguration

The compute configuration for the protected job.

Type: ProtectedJobComputeConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

jobComputePayerAccountId

The account ID of the member that pays for the job compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

jobParameters

The job parameters.

Type: ProtectedJobParameters object

Required: Yes

resultConfiguration

The details needed to write the job results.

Type: ProtectedJobResultConfigurationInput object

Required: No

type

The type of protected job to start.

Type: String

Valid Values: PYSPARK

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "protectedJob": {
      "computeConfiguration": { ... },
      "createTime": number,
      "error": {
         "code": "string",
         "message": "string"
      },
      "id": "string",
      "jobComputePayerAccountId": "string",
      "jobParameters": {
         "analysisTemplateArn": "string",
         "parameters": {
            "string" : "string"
         }
      },
      "membershipArn": "string",
      "membershipId": "string",
      "result": {
         "output": { ... }
      },
      "resultConfiguration": {
         "outputConfiguration": { ... }
      },
      "statistics": {
         "billedResourceUtilization": {
            "units": number
         },
         "totalDurationInMillis": number
      },
      "status": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

protectedJob

The protected job.

Type: ProtectedJob object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

StartProtectedQuery

Creates a protected query that is started by AWS Clean Rooms.

Request Syntax

```
POST /memberships/membershipIdentifier/protectedQueries HTTP/1.1
Content-type: application/json

{
   "computeConfiguration": { ... },
   "queryComputePayerAccountId": "string",
   "resultConfiguration": {
      "outputConfiguration": { ... }
   },
   "sqlParameters": {
      "analysisTemplateArn": "string",
      "parameters": {
         "string" : "string"
      },
      "queryString": "string"
   },
   "type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

A unique identifier for the membership to run this query against. Currently accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

computeConfiguration

The compute configuration for the protected query.

Type: ComputeConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

queryComputePayerAccountId

The account ID of the member that pays for the query compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

resultConfiguration

The details needed to write the query results.

Type: ProtectedQueryResultConfiguration object

Required: No

sqlParameters

The protected SQL query parameters.

Type: ProtectedQuerySQLParameters object

Required: Yes

type

The type of the protected query to be started.

Type: String

Valid Values: SQL

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "protectedQuery": {
      "computeConfiguration": { ... },
      "createTime": number,
      "differentialPrivacy": {
         "sensitivityParameters": [
            {
               "aggregationExpression": "string",
               "aggregationType": "string",
               "maxColumnValue": number,
               "minColumnValue": number,
               "userContributionLimit": number
            }
         ]
      },
      "error": {
         "code": "string",
         "message": "string"
      },
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "queryComputePayerAccountId": "string",
      "result": {
         "output": { ... }
      },
      "resultConfiguration": {
         "outputConfiguration": { ... }
      },
      "sqlParameters": {
         "analysisTemplateArn": "string",
         "parameters": {
```

```
            "string" : "string"
         },
         "queryString": "string"
      },
      "statistics": {
         "billedResourceUtilization": {
            "units": number
         },
         "totalDurationInMillis": number
      },
      "status": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

protectedQuery

The protected query.

Type: ProtectedQuery object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

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- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

TagResource

Tags a resource.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) associated with the resource you want to tag.

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:[\d\w/-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

A map of objects specifying each key name and value.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UntagResource

Removes a tag or list of tags from a resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) associated with the resource you want to remove the tag from.

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:[\d\w/-]+`

Required: Yes

tagKeys

A list of key names of tags to be removed.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateAnalysisTemplate

Updates the analysis template metadata.

Request Syntax

```
PATCH /memberships/membershipIdentifier/analysistemplates/analysisTemplateIdentifier
 HTTP/1.1
Content-type: application/json

{
   "description": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

analysisTemplateIdentifier

The identifier for the analysis template resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A new description for the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisTemplate": {
      "analysisParameters": [
         {
            "defaultValue": "string",
            "name": "string",
            "type": "string"
         }
      ],
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "errorMessageConfiguration": {
         "type": "string"
      },
      "format": "string",
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "schema": {
         "referencedTables": [ "string" ]
      },
      "source": { ... },
```

```
      "sourceMetadata": { ... },
      "syntheticDataParameters": { ... },
      "updateTime": number,
      "validations": [
         {
            "reasons": [
               {
                  "message": "string"
               }
            ],
            "status": "string",
            "type": "string"
         }
      ]
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisTemplate

The analysis template.

Type: AnalysisTemplate object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateCollaboration

Updates collaboration metadata and can only be called by the collaboration owner.

Request Syntax

```
PATCH /collaborations/collaborationIdentifier HTTP/1.1
Content-type: application/json

{
   "analyticsEngine": "string",
   "description": "string",
   "name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

collaborationIdentifier

The identifier for the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analyticsEngine

The analytics engine.

> **Note**
>
> After July 16, 2025, the `CLEAN_ROOMS_SQL` parameter will no longer be available.

Type: String

Valid Values: SPARK | CLEAN_ROOMS_SQL

Required: No

description

A description of the collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `(?!\s+$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

name

A human-readable identifier provided by the collaboration owner. Display names are not unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaboration": {
      "allowedResultRegions": [ "string" ],
      "analyticsEngine": "string",
      "arn": "string",
```

```
      "autoApprovedChangeTypes": [ "string" ],
      "createTime": number,
      "creatorAccountId": "string",
      "creatorDisplayName": "string",
      "dataEncryptionMetadata": {
         "allowCleartext": boolean,
         "allowDuplicates": boolean,
         "allowJoinsOnColumnsWithDifferentNames": boolean,
         "preserveNulls": boolean
      },
      "description": "string",
      "id": "string",
      "isMetricsEnabled": boolean,
      "jobLogStatus": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "memberStatus": "string",
      "name": "string",
      "queryLogStatus": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaboration

The entire collaboration that has been updated.

Type: Collaboration object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateCollaborationChangeRequest

Updates an existing collaboration change request. This operation allows approval actions for pending change requests in collaborations (APPROVE, DENY, CANCEL, COMMIT).

For change requests without automatic approval, a member in the collaboration can manually APPROVE or DENY a change request. The collaboration owner can manually CANCEL or COMMIT a change request.

Request Syntax

```
PATCH /collaborations/collaborationIdentifier/changeRequests/changeRequestIdentifier
 HTTP/1.1
Content-type: application/json

{
   "action": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

changeRequestIdentifier

The unique identifier of the specific change request to be updated within the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

collaborationIdentifier

The unique identifier of the collaboration that contains the change request to be updated.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

action

The action to perform on the change request. Valid values include APPROVE (approve the change), DENY (reject the change), CANCEL (cancel the request), and COMMIT (commit after the request is approved).

For change requests without automatic approval, a member in the collaboration can manually APPROVE or DENY a change request. The collaboration owner can manually CANCEL or COMMIT a change request.

Type: String

Valid Values: `APPROVE | DENY | CANCEL | COMMIT`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "collaborationChangeRequest": {
      "approvals": {
         "string" : {
            "status": "string"
         }
      },
      "changes": [
         {
            "specification": { ... },
            "specificationType": "string",
            "types": [ "string" ]
         }
      ],
```

```
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "isAutoApproved": boolean,
      "status": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

collaborationChangeRequest

Represents a request to modify a collaboration. Change requests enable structured modifications to collaborations after they have been created.

Type: CollaborationChangeRequest object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateConfiguredAudienceModelAssociation

Provides the details necessary to update a configured audience model association.

Request Syntax

```
PATCH /memberships/membershipIdentifier/
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier
 HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

configuredAudienceModelAssociationIdentifier

A unique identifier for the configured audience model association that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

A unique identifier of the membership that contains the configured audience model association that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A new description for the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

name

A new name for the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredAudienceModelAssociation": {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "configuredAudienceModelArn": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
```

```
        "manageResourcePolicies": boolean,
        "membershipArn": "string",
        "membershipId": "string",
        "name": "string",
        "updateTime": number
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredAudienceModelAssociation

Details about the configured audience model association that you updated.

Type: ConfiguredAudienceModelAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateConfiguredTable

Updates a configured table.

Request Syntax

```
PATCH /configuredTables/configuredTableIdentifier HTTP/1.1
Content-type: application/json

{
   "allowedColumns": [ "string" ],
   "analysisMethod": "string",
   "description": "string",
   "name": "string",
   "selectedAnalysisMethods": [ "string" ],
   "tableReference": { ... }
}
```

URI Request Parameters

The request uses the following URI parameters.

configuredTableIdentifier

The identifier for the configured table to update. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

allowedColumns

The columns of the underlying table that can be used by collaborations or analysis rules.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: No

analysisMethod

The analysis method for the configured table.

`DIRECT_QUERY` allows SQL queries to be run directly on this table.

`DIRECT_JOB` allows PySpark jobs to be run directly on this table.

`MULTIPLE` allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: `DIRECT_QUERY | DIRECT_JOB | MULTIPLE`

Required: No

description

A new description for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

name

A new name for the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: No

selectedAnalysisMethods

The selected analysis methods for the table configuration update.

Type: Array of strings

Valid Values: `DIRECT_QUERY | DIRECT_JOB`

Required: No

tableReference

A pointer to the dataset that underlies this table.

Type: TableReference object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredTable": {
      "allowedColumns": [ "string" ],
      "analysisMethod": "string",
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "name": "string",
      "selectedAnalysisMethods": [ "string" ],
      "tableReference": { ... },
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredTable

The updated configured table.

Type: ConfiguredTable object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateConfiguredTableAnalysisRule

Updates a configured table analysis rule.

Request Syntax

```
PATCH /configuredTables/configuredTableIdentifier/analysisRule/analysisRuleType
 HTTP/1.1
Content-type: application/json

{
   "analysisRulePolicy": { ... }
}
```

URI Request Parameters

The request uses the following URI parameters.

analysisRuleType

The analysis rule type to be updated. Configured table analysis rules are uniquely identified by their configured table identifier and analysis rule type.

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

configuredTableIdentifier

The unique identifier for the configured table that the analysis rule applies to. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analysisRulePolicy

The new analysis rule policy for the configured table analysis rule.

Type: ConfiguredTableAnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisRule": {
      "configuredTableArn": "string",
      "configuredTableId": "string",
      "createTime": number,
      "policy": { ... },
      "type": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRule

The entire updated analysis rule.

Type: ConfiguredTableAnalysisRule object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ServiceQuotaExceededException

Request denied because service quota has been exceeded.

quotaName

The name of the quota.

quotaValue

The value of the quota.

HTTP Status Code: 402

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateConfiguredTableAssociation

Updates a configured table association.

Request Syntax

```
PATCH /memberships/membershipIdentifier/
configuredTableAssociations/configuredTableAssociationIdentifier HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "roleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

configuredTableAssociationIdentifier

The unique identifier for the configured table association to update. Currently accepts the configured table association ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique ID for the membership that the configured table association belongs to.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A new description for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

roleArn

The service will assume this role to access catalog metadata and query the table.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@-]+`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "configuredTableAssociation": {
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "childResources": [
         {
            "ownerAccountId": "string",
            "resourceId": "string",
            "resourceName": "string",
            "resourceStatus": "string",
            "resourceType": "string"
         }
      ],
      "configuredTableArn": "string",
      "configuredTableId": "string",
```

```
        "createTime": number,
        "description": "string",
        "id": "string",
        "membershipArn": "string",
        "membershipId": "string",
        "name": "string",
        "roleArn": "string",
        "updateTime": number
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configuredTableAssociation

The entire updated configured table association.

Type: ConfiguredTableAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateConfiguredTableAssociationAnalysisRule

Updates the analysis rule for a configured table association.

Request Syntax

```
PATCH /memberships/membershipIdentifier/
configuredTableAssociations/configuredTableAssociationIdentifier/
analysisRule/analysisRuleType HTTP/1.1
Content-type: application/json

{
   "analysisRulePolicy": { ... }
}
```

URI Request Parameters

The request uses the following URI parameters.

analysisRuleType

The analysis rule type that you want to update.

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

configuredTableAssociationIdentifier

The identifier for the configured table association to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analysisRulePolicy

The updated analysis rule policy for the configured table association.

Type: ConfiguredTableAssociationAnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisRule": {
      "configuredTableAssociationArn": "string",
      "configuredTableAssociationId": "string",
      "createTime": number,
      "membershipIdentifier": "string",
      "policy": { ... },
      "type": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRule

The updated analysis rule for the configured table association. In the console, the `ConfiguredTableAssociationAnalysisRule` is referred to as the *collaboration analysis rule*.

Type: ConfiguredTableAssociationAnalysisRule object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateIdMappingTable

Provides the details that are necessary to update an ID mapping table.

Request Syntax

```
PATCH /memberships/membershipIdentifier/idmappingtables/idMappingTableIdentifier
 HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "kmsKeyArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

idMappingTableIdentifier

The unique identifier of the ID mapping table that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the ID mapping table that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A new description for the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws:kms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:key/[a-zA-Z0-9-]+`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "idMappingTable": {
      "arn": "string",
      "childResources": [
         {
            "ownerAccountId": "string",
            "resourceId": "string",
            "resourceName": "string",
            "resourceStatus": "string",
            "resourceType": "string"
         }
      ],
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
```

```
      "id": "string",
      "inputReferenceConfig": {
         "inputReferenceArn": "string",
         "manageResourcePolicies": boolean
      },
      "inputReferenceProperties": {
         "idMappingTableInputSource": [
            {
               "idNamespaceAssociationId": "string",
               "type": "string"
            }
         ]
      },
      "kmsKeyArn": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

idMappingTable

The updated ID mapping table.

Type: IdMappingTable object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateIdNamespaceAssociation

Provides the details that are necessary to update an ID namespace association.

Request Syntax

```
PATCH /memberships/membershipIdentifier/
idnamespaceassociations/idNamespaceAssociationIdentifier HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "idMappingConfig": {
      "allowUseAsDimensionColumn": boolean
   },
   "name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

idNamespaceAssociationIdentifier

The unique identifier of the ID namespace association that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the ID namespace association that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A new description for the ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

idMappingConfig

The configuration settings for the ID mapping table.

Type: IdMappingConfig object

Required: No

name

A new name for the ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "idNamespaceAssociation": {
      "arn": "string",
```

```
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "idMappingConfig": {
         "allowUseAsDimensionColumn": boolean
      },
      "inputReferenceConfig": {
         "inputReferenceArn": "string",
         "manageResourcePolicies": boolean
      },
      "inputReferenceProperties": {
         "idMappingWorkflowsSupported": [ JSON value ],
         "idNamespaceType": "string"
      },
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

idNamespaceAssociation

The updated ID namespace association.

Type: IdNamespaceAssociation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateIntermediateTable

Updates an intermediate table. You can update the description, KMS key ARN, and column types of existing columns. Only the intermediate table owner can call this operation.

Request Syntax

```
PATCH /memberships/membershipIdentifier/intermediateTables/intermediateTableIdentifier
 HTTP/1.1
Content-type: application/json

{
   "columns": [
      {
         "name": "string",
         "type": "string"
      }
   ],
   "description": "string",
   "kmsKeyArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

intermediateTableIdentifier

The unique identifier of the intermediate table to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the intermediate table.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

columns

The list of columns with updated type definitions. Only the type of existing columns can be updated.

Type: Array of IntermediateTableColumn objects

Required: No

description

A new description for the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the customer-managed KMS key to use for encrypting future population data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws:kms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:key/[a-zA-Z0-9-]+`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "intermediateTable": {
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "childResources": [
         {
            "ownerAccountId": "string",
            "resourceId": "string",
            "resourceName": "string",
            "resourceStatus": "string",
            "resourceType": "string"
         }
      ],
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "intermediateTableVersion": {
         "analysisId": "string",
         "analysisType": "string",
         "expirationTime": number,
         "inheritedConstraints": {
            "additionalAnalyses": {
               "sources": [
                  {
                     "id": "string",
                     "name": "string",
                     "sourceAccountId": "string",
                     "type": "string",
                     "value": "string"
                  }
               ],
               "value": "string"
            },
            "allowedAdditionalAnalyses": {
               "sources": [
                  {
```

```
                    "id": "string",
                    "name": "string",
                    "sourceAccountId": "string",
                    "type": "string",
                    "value": [ "string" ]
                 }
              ],
              "value": [ "string" ]
           },
           "allowedResultReceivers": {
              "sources": [
                 {
                    "id": "string",
                    "name": "string",
                    "sourceAccountId": "string",
                    "type": "string",
                    "value": [ "string" ]
                 }
              ],
              "value": [ "string" ]
           },
           "disallowedOutputColumns": {
              "columnLineage": [
                 {
                    "column": "string",
                    "sourceAccountId": "string",
                    "sourceColumn": "string",
                    "sourceId": "string",
                    "sourceName": "string",
                    "sourceType": "string"
                 }
              ],
              "value": [ "string" ]
           }
        },
        "kmsKeyArn": "string",
        "parameters": {
           "string" : "string"
        },
        "versionId": "string"
     },
     "kmsKeyArn": "string",
     "membershipArn": "string",
     "membershipId": "string",
```

```
      "name": "string",
      "populationAnalysisConfiguration": { ... },
      "retentionInDays": number,
      "schema": {
         "columns": [
            {
               "name": "string",
               "type": "string"
            }
         ]
      },
      "status": "string",
      "statusReason": "string",
      "tableDependencies": [
         {
            "creatorAccountId": "string",
            "id": "string",
            "name": "string",
            "parentType": "string",
            "type": "string"
         }
      ],
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

intermediateTable

The updated intermediate table.

Type: IntermediateTable object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateIntermediateTableAnalysisRule

Updates the analysis rule policy for an intermediate table. Only the intermediate table owner can call this operation.

Request Syntax

```
PATCH /memberships/membershipIdentifier/intermediateTables/intermediateTableIdentifier/
analysisRule/analysisRuleType HTTP/1.1
Content-type: application/json

{
   "analysisRulePolicy": { ... }
}
```

URI Request Parameters

The request uses the following URI parameters.

analysisRuleType

The type of analysis rule to update. Currently, only `CUSTOM` is supported.

Valid Values: `CUSTOM`

Required: Yes

intermediateTableIdentifier

The unique identifier of the intermediate table for which to update the analysis rule.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipIdentifier

The unique identifier of the membership that contains the intermediate table.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

analysisRulePolicy

The updated analysis rule policy for the intermediate table.

Type: IntermediateTableAnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "analysisRule": {
      "analysisRulePolicy": { ... },
      "analysisRuleType": "string",
      "createTime": number,
      "intermediateTableArn": "string",
      "intermediateTableIdentifier": "string",
      "updateTime": number
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

analysisRule

The updated analysis rule for the intermediate table.

Type: IntermediateTableAnalysisRule object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateMembership

Updates a membership.

Request Syntax

```
PATCH /memberships/membershipIdentifier HTTP/1.1
Content-type: application/json

{
   "defaultJobResultConfiguration": {
      "outputConfiguration": { ... },
      "roleArn": "string"
   },
   "defaultResultConfiguration": {
      "outputConfiguration": { ... },
      "roleArn": "string"
   },
   "jobLogStatus": "string",
   "membershipPaymentConfiguration": {
      "jobCompute": {
         "isResponsible": boolean
      },
      "machineLearning": {
         "modelInference": {
            "isResponsible": boolean
         },
         "modelTraining": {
            "isResponsible": boolean
         },
         "syntheticDataGeneration": {
            "isResponsible": boolean
         }
      },
      "queryCompute": {
         "isResponsible": boolean
      }
   },
   "queryLogStatus": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The unique identifier of the membership.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

defaultJobResultConfiguration

The default job result configuration.

Type: MembershipProtectedJobResultConfiguration object

Required: No

defaultResultConfiguration

The default protected query result configuration as specified by the member who can receive results.

Type: MembershipProtectedQueryResultConfiguration object

Required: No

jobLogStatus

An indicator as to whether job logging has been enabled or disabled for the collaboration.

When `ENABLED`, AWS Clean Rooms logs details about jobs run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

membershipPaymentConfiguration

The payment configuration to update for the membership.

Type: UpdateMembershipPaymentConfiguration object

Required: No

queryLogStatus

An indicator as to whether query logging has been enabled or disabled for the membership.

When ENABLED, AWS Clean Rooms logs details about queries run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "membership": {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationCreatorAccountId": "string",
      "collaborationCreatorDisplayName": "string",
      "collaborationId": "string",
      "collaborationName": "string",
      "createTime": number,
      "defaultJobResultConfiguration": {
         "outputConfiguration": { ... },
         "roleArn": "string"
      },
      "defaultResultConfiguration": {
         "outputConfiguration": { ... },
```

```
            "roleArn": "string"
         },
         "id": "string",
         "isMetricsEnabled": boolean,
         "jobLogStatus": "string",
         "memberAbilities": [ "string" ],
         "mlMemberAbilities": {
            "customMLMemberAbilities": [ "string" ]
         },
         "paymentConfiguration": {
            "jobCompute": {
               "isResponsible": boolean
            },
            "machineLearning": {
               "modelInference": {
                  "isResponsible": boolean
               },
               "modelTraining": {
                  "isResponsible": boolean
               },
               "syntheticDataGeneration": {
                  "isResponsible": boolean
               }
            },
            "queryCompute": {
               "isResponsible": boolean
            }
         },
         "queryLogStatus": "string",
         "status": "string",
         "updateTime": number
      }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

membership

The membership object.

Type: Membership object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdatePrivacyBudgetTemplate

Updates the privacy budget template for the specified collaboration.

Request Syntax

```
PATCH /memberships/membershipIdentifier/
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
Content-type: application/json

{
   "parameters": { ... },
   "privacyBudgetType": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget template is updated in the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

privacyBudgetTemplateIdentifier

A unique identifier for your privacy budget template that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

parameters

Specifies the epsilon and noise parameters for the privacy budget template.

Type: PrivacyBudgetTemplateUpdateParameters object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

privacyBudgetType

Specifies the type of the privacy budget template.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY | ACCESS_BUDGET`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "privacyBudgetTemplate": {
      "arn": "string",
      "autoRefresh": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "parameters": { ... },
      "privacyBudgetType": "string",
      "updateTime": number
   }
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

privacyBudgetTemplate

Summary of the privacy budget template.

Type: PrivacyBudgetTemplate object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateProtectedJob

Updates the processing of a currently running job.

Request Syntax

```
PATCH /memberships/membershipIdentifier/protectedJobs/protectedJobIdentifier HTTP/1.1
Content-type: application/json

{
   "targetStatus": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The identifier for a member of a protected job instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

protectedJobIdentifier

The identifier of the protected job to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

targetStatus

The target status of a protected job. Used to update the execution status of a currently running job.

Type: String

Valid Values: CANCELLED

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "protectedJob": {
      "computeConfiguration": { ... },
      "createTime": number,
      "error": {
         "code": "string",
         "message": "string"
      },
      "id": "string",
      "jobComputePayerAccountId": "string",
      "jobParameters": {
         "analysisTemplateArn": "string",
         "parameters": {
            "string" : "string"
         }
      },
      "membershipArn": "string",
      "membershipId": "string",
      "result": {
         "output": { ... }
      },
      "resultConfiguration": {
         "outputConfiguration": { ... }
      },
      "statistics": {
         "billedResourceUtilization": {
            "units": number
```

```
         },
         "totalDurationInMillis": number
      },
      "status": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

protectedJob

The protected job output.

Type: ProtectedJob object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateProtectedQuery

Updates the processing of a currently running query.

Request Syntax

```
PATCH /memberships/membershipIdentifier/protectedQueries/protectedQueryIdentifier
 HTTP/1.1
Content-type: application/json

{
   "targetStatus": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

membershipIdentifier

The identifier for a member of a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

protectedQueryIdentifier

The identifier for a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

targetStatus

The target status of a query. Used to update the execution status of a currently running query.

Type: String

Valid Values: CANCELLED

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "protectedQuery": {
      "computeConfiguration": { ... },
      "createTime": number,
      "differentialPrivacy": {
         "sensitivityParameters": [
            {
               "aggregationExpression": "string",
               "aggregationType": "string",
               "maxColumnValue": number,
               "minColumnValue": number,
               "userContributionLimit": number
            }
         ]
      },
      "error": {
         "code": "string",
         "message": "string"
      },
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "queryComputePayerAccountId": "string",
      "result": {
         "output": { ... }
      },
      "resultConfiguration": {
         "outputConfiguration": { ... }
```

```
      },
      "sqlParameters": {
         "analysisTemplateArn": "string",
         "parameters": {
            "string" : "string"
         },
         "queryString": "string"
      },
      "statistics": {
         "billedResourceUtilization": {
            "units": number
         },
         "totalDurationInMillis": number
      },
      "status": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

protectedQuery

The protected query output.

Type: ProtectedQuery object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Caller does not have sufficient access to perform this action.

reason

A reason code for the exception.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

reason

A reason code for the exception.

resourceId

The ID of the conflicting resource.

resourceType

The type of the conflicting resource.

HTTP Status Code: 409

InternalServerException

Unexpected error during processing of request.

HTTP Status Code: 500

ResourceNotFoundException

Request references a resource which does not exist.

resourceId

The Id of the missing resource.

resourceType

The type of the missing resource.

HTTP Status Code: 404

ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

Validation errors for specific input parameters.

reason

A reason code for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

Data Types

The AWS Clean Rooms Service API contains several data types that various actions use. This section describes each data type in detail.

> **Note**
>
> The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- AccessBudget
- AccessBudgetDetails
- AccessBudgetsPrivacyTemplateParametersInput
- AccessBudgetsPrivacyTemplateParametersOutput
- AccessBudgetsPrivacyTemplateUpdateParameters
- AggregateColumn
- AggregationConstraint
- AggregationThreshold
- AnalysisLogExport
- AnalysisLogExportError
- AnalysisLogExportOutputConfiguration
- AnalysisLogExportResultConfiguration
- AnalysisLogExportS3OutputConfiguration
- AnalysisLogExportSummary
- AnalysisParameter
- AnalysisRule
- AnalysisRuleAggregation
- AnalysisRuleCustom
- AnalysisRuleIdMappingTable
- AnalysisRuleList

- AnalysisRulePolicy
- AnalysisRulePolicyV1
- AnalysisSchema
- AnalysisSource
- AnalysisSourceMetadata
- AnalysisTemplate
- AnalysisTemplateArtifact
- AnalysisTemplateArtifactMetadata
- AnalysisTemplateArtifacts
- AnalysisTemplateSummary
- AnalysisTemplateValidationStatusDetail
- AnalysisTemplateValidationStatusReason
- ApprovalStatusDetails
- AthenaTableReference
- BatchGetCollaborationAnalysisTemplateError
- BatchGetSchemaAnalysisRuleError
- BatchGetSchemaError
- BilledJobResourceUtilization
- BilledResourceUtilization
- BudgetParameter
- Change
- ChangeInput
- ChangeSpecification
- ChildResource
- Collaboration
- CollaborationAnalysisTemplate
- CollaborationAnalysisTemplateSummary
- CollaborationChangeRequest
- CollaborationChangeRequestSummary
- CollaborationChangeSpecification

- CollaborationConfiguredAudienceModelAssociation
- CollaborationConfiguredAudienceModelAssociationSummary
- CollaborationIdNamespaceAssociation
- CollaborationIdNamespaceAssociationSummary
- CollaborationPrivacyBudgetSummary
- CollaborationPrivacyBudgetTemplate
- CollaborationPrivacyBudgetTemplateSummary
- CollaborationSummary
- Column
- ColumnClassificationDetails
- ColumnLineageEntry
- ComparisonControls
- ComputeConfiguration
- ConfigurationDetails
- ConfiguredAudienceModelAssociation
- ConfiguredAudienceModelAssociationSummary
- ConfiguredTable
- ConfiguredTableAnalysisRule
- ConfiguredTableAnalysisRulePolicy
- ConfiguredTableAnalysisRulePolicyV1
- ConfiguredTableAssociation
- ConfiguredTableAssociationAnalysisRule
- ConfiguredTableAssociationAnalysisRuleAggregation
- ConfiguredTableAssociationAnalysisRuleCustom
- ConfiguredTableAssociationAnalysisRuleList
- ConfiguredTableAssociationAnalysisRulePolicy
- ConfiguredTableAssociationAnalysisRulePolicyV1
- ConfiguredTableAssociationSchemaTypeProperties
- ConfiguredTableAssociationSummary
- ConfiguredTableSummary

- ConsolidatedPolicy
- ConsolidatedPolicyAggregation
- ConsolidatedPolicyCustom
- ConsolidatedPolicyList
- ConsolidatedPolicyV1
- DataEncryptionMetadata
- DifferentialPrivacyColumn
- DifferentialPrivacyConfiguration
- DifferentialPrivacyParameters
- DifferentialPrivacyPreviewAggregation
- DifferentialPrivacyPreviewParametersInput
- DifferentialPrivacyPrivacyBudget
- DifferentialPrivacyPrivacyBudgetAggregation
- DifferentialPrivacyPrivacyImpact
- DifferentialPrivacySensitivityParameters
- DifferentialPrivacyTemplateParametersInput
- DifferentialPrivacyTemplateParametersOutput
- DifferentialPrivacyTemplateUpdateParameters
- DirectAnalysisConfigurationDetails
- ErrorMessageConfiguration
- GlueTableReference
- Hash
- IdMappingConfig
- IdMappingTable
- IdMappingTableInputReferenceConfig
- IdMappingTableInputReferenceProperties
- IdMappingTableInputSource
- IdMappingTableSchemaTypeProperties
- IdMappingTableSummary
- IdNamespaceAssociation

- IdNamespaceAssociationInputReferenceConfig
- IdNamespaceAssociationInputReferenceProperties
- IdNamespaceAssociationInputReferencePropertiesSummary
- IdNamespaceAssociationSummary
- InheritedAdditionalAnalyses
- InheritedAdditionalAnalysesSource
- InheritedAllowedAdditionalAnalyses
- InheritedAllowedAdditionalAnalysesSource
- InheritedAllowedResultReceivers
- InheritedAllowedResultReceiversSource
- InheritedDisallowedOutputColumns
- IntermediateTable
- IntermediateTableActiveVersion
- IntermediateTableAnalysisRule
- IntermediateTableAnalysisRuleCustom
- IntermediateTableAnalysisRulePolicy
- IntermediateTableAnalysisRulePolicyV1
- IntermediateTableColumn
- IntermediateTableComputeConfiguration
- IntermediateTableDependency
- IntermediateTableInheritedConstraints
- IntermediateTableOutputConfiguration
- IntermediateTableSchema
- IntermediateTableSchemaTypeProperties
- IntermediateTableSummary
- IntermediateTableVersionSummary
- JobComputePaymentConfig
- MemberChangeSpecification
- Membership
- MembershipJobComputePaymentConfig

- MembershipMLPaymentConfig
- MembershipModelInferencePaymentConfig
- MembershipModelTrainingPaymentConfig
- MembershipPaymentConfiguration
- MembershipProtectedJobOutputConfiguration
- MembershipProtectedJobResultConfiguration
- MembershipProtectedQueryOutputConfiguration
- MembershipProtectedQueryResultConfiguration
- MembershipQueryComputePaymentConfig
- MembershipSummary
- MembershipSyntheticDataGenerationPaymentConfig
- MemberSpecification
- MemberSummary
- MLMemberAbilities
- MLPaymentConfig
- MLSyntheticDataParameters
- ModelInferencePaymentConfig
- ModelTrainingPaymentConfig
- OutputColumnThreshold
- PaymentConfiguration
- PopulationAnalysisConfiguration
- PopulationAnalysisSqlParameters
- PreviewPrivacyImpactParametersInput
- PrivacyBudget
- PrivacyBudgetSummary
- PrivacyBudgetTemplate
- PrivacyBudgetTemplateParametersInput
- PrivacyBudgetTemplateParametersOutput
- PrivacyBudgetTemplateSummary
- PrivacyBudgetTemplateUpdateParameters

- PrivacyImpact
- ProtectedJob
- ProtectedJobComputeConfiguration
- ProtectedJobConfigurationDetails
- ProtectedJobDirectAnalysisConfigurationDetails
- ProtectedJobError
- ProtectedJobMemberOutputConfigurationInput
- ProtectedJobMemberOutputConfigurationOutput
- ProtectedJobOutput
- ProtectedJobOutputConfigurationInput
- ProtectedJobOutputConfigurationOutput
- ProtectedJobParameters
- ProtectedJobReceiverConfiguration
- ProtectedJobResult
- ProtectedJobResultConfigurationInput
- ProtectedJobResultConfigurationOutput
- ProtectedJobS3Output
- ProtectedJobS3OutputConfigurationInput
- ProtectedJobS3OutputConfigurationOutput
- ProtectedJobSingleMemberOutput
- ProtectedJobStatistics
- ProtectedJobSummary
- ProtectedJobWorkerComputeConfiguration
- ProtectedQuery
- ProtectedQueryDistributeOutput
- ProtectedQueryDistributeOutputConfiguration
- ProtectedQueryDistributeOutputConfigurationLocation
- ProtectedQueryError
- ProtectedQueryMemberOutputConfiguration
- ProtectedQueryOutput

- ProtectedQueryOutputConfiguration
- ProtectedQueryResult
- ProtectedQueryResultConfiguration
- ProtectedQueryS3Output
- ProtectedQueryS3OutputConfiguration
- ProtectedQuerySingleMemberOutput
- ProtectedQuerySQLParameters
- ProtectedQueryStatistics
- ProtectedQuerySummary
- QueryComputePaymentConfig
- QueryConstraint
- QueryConstraintRequireOverlap
- ReceiverConfiguration
- S3Location
- Schema
- SchemaAnalysisRuleRequest
- SchemaStatusDetail
- SchemaStatusReason
- SchemaSummary
- SchemaTypeProperties
- SnowflakeTableReference
- SnowflakeTableSchema
- SnowflakeTableSchemaV1
- SyntheticDataColumnProperties
- SyntheticDataGenerationPaymentConfig
- SyntheticDataParameters
- TableReference
- UpdateMembershipPaymentConfiguration
- ValidationExceptionField
- WorkerComputeConfiguration

- WorkerComputeConfigurationProperties

AccessBudget

Controls and tracks usage limits for associated configured tables within a collaboration across queries and job. Supports both period-based budgets that can renew (daily, weekly, or monthly) and fixed lifetime budgets. Contains the resource ARN, remaining budget information, and up to two budget configurations (period-based and lifetime). By default, table usage is unlimited unless a budget is configured.

Contents

aggregateRemainingBudget

The total remaining budget across all budget parameters, showing the lower value between the per-period budget and lifetime budget for this access budget. For individual parameter budgets, see `remainingBudget`.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

details

Detailed budget information including time bounds, remaining budget, and refresh settings.

Type: Array of AccessBudgetDetails objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

resourceArn

The Amazon Resource Name (ARN) of the access budget resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/(configuredtableassociation|intermediatetable)/[\d\w-]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AccessBudgetDetails

Detailed information about an access budget including time bounds, budget allocation, and configuration settings.

Contents

budget

The total budget allocation amount for this access budget.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1000000.

Required: Yes

budgetType

Specifies the time period for limiting table usage in queries and jobs. For calendar-based periods, the budget can renew if auto refresh is enabled. For lifetime budgets, the limit applies to the total usage throughout the collaboration. Valid values are:

`CALENDAR_DAY` - Limit table usage per day.

`CALENDAR_WEEK` - Limit table usage per week.

`CALENDAR_MONTH` - Limit table usage per month.

`LIFETIME` - Limit total table usage for the collaboration duration.

Type: String

Valid Values: `CALENDAR_DAY | CALENDAR_MONTH | CALENDAR_WEEK | LIFETIME`

Required: Yes

remainingBudget

The remaining budget amount available for use within this access budget.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

startTime

The start time for the access budget period.

Type: Timestamp

Required: Yes

autoRefresh

Indicates whether the budget automatically refreshes for each time period specified in `budgetType`. Valid values are:

`ENABLED` - The budget refreshes automatically at the start of each period.

`DISABLED` - The budget must be refreshed manually.

`NULL` - The value is null when `budgetType` is set to `LIFETIME`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

endTime

The end time for the access budget period.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AccessBudgetsPrivacyTemplateParametersInput

Input parameters for privacy budget templates that support access budgets functionality, enabling enhanced budget management capabilities.

Contents

budgetParameters

An array of budget parameters that define the access budget configuration for the privacy template.

Type: Array of BudgetParameter objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

resourceArn

The Amazon Resource Name (ARN) of the resource associated with this privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/(configuredtableassociation|intermediatetable)/[\d\w-]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AccessBudgetsPrivacyTemplateParametersOutput

Output parameters for privacy budget templates with access budgets support, containing the configured budget information.

Contents

budgetParameters

An array of budget parameters returned from the access budget configuration.

Type: Array of BudgetParameter objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

resourceArn

The Amazon Resource Name (ARN) of the resource associated with this privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/(configuredtableassociation|intermediatetable)/[\d\w-]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AccessBudgetsPrivacyTemplateUpdateParameters

Update parameters for privacy budget templates with access budgets functionality, allowing modification of existing budget configurations.

Contents

budgetParameters

Updated array of budget parameters for the access budget configuration.

Type: Array of BudgetParameter objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AggregateColumn

Column in configured table that can be used in aggregate function in query.

Contents

columnNames

Column names in configured table of aggregate columns.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

function

Aggregation function that can be applied to aggregate column in query.

Type: String

Valid Values: `SUM | SUM_DISTINCT | COUNT | COUNT_DISTINCT | AVG`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AggregationConstraint

Constraint on query output removing output rows that do not meet a minimum number of distinct values of a specified column.

Contents

columnName

Column in aggregation constraint for which there must be a minimum number of distinct values in an output row for it to be in the query output.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

minimum

The minimum number of distinct values that an output row must be an aggregation of. Minimum threshold of distinct values for a specified column that must exist in an output row for it to be in the query output.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 100000.

Required: Yes

type

The type of aggregation the constraint allows. The only valid value is currently `COUNT_DISTINCT`.

Type: String

Valid Values: `COUNT_DISTINCT`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AggregationThreshold

Specifies the minimum number of distinct identities that each query output group must represent.

Contents

allowedAggregateExpressionType

Specifies whether a query can aggregate a transformed column. This applies to the arguments of both aggregate and window functions. Valid values are:

`COLUMNS_ONLY` – A query can aggregate only a direct column reference, such as `SUM(amount)`, or a constant. AWS Clean Rooms rejects a query that transforms a column and then aggregates it, such as `SUM(amount * 2)` or `SUM(ROUND(amount))`.

`ANY_EXPRESSION` – A query can aggregate any expression. This includes arithmetic, such as `SUM(price * quantity)`; a cast, such as `SUM(CAST(amount AS DECIMAL))`; a nested function call, such as `SUM(COALESCE(amount, 0))`; and a conditional, such as `SUM(CASE WHEN region = 'EU' THEN amount ELSE 0 END)`.

Type: String

Valid Values: `COLUMNS_ONLY | ANY_EXPRESSION`

Required: Yes

identityColumns

The identity column, such as `user_id`, whose distinct values AWS Clean Rooms counts to enforce minimum aggregation thresholds. Currently, you can specify only one column, and its data type must be string, varchar, or char.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

minimumIdentityCount

The minimum number of distinct identities that each query output group must represent. This threshold applies to all output columns in the table. To override this threshold for a specific column, use `outputColumnThresholds`.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 100000.

Required: Yes

type

The type of aggregation that the threshold enforces. Currently, the only supported value is `COUNT_DISTINCT`, which counts the distinct values in the identity column.

Type: String

Valid Values: `COUNT_DISTINCT`

Required: Yes

outputColumnThresholds

The per-column overrides of `minimumIdentityCount`. An output column without an override uses `minimumIdentityCount`.

Type: Array of OutputColumnThreshold objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisLogExport

An export of the redacted Apache Spark logs for a protected query.

Contents

analysisId

The unique identifier of the protected query that the analysis logs were exported for.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

analysisLogExportId

The unique identifier of the analysis log export.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

analysisType

The type of analysis that the logs were exported for. Currently, only `PROTECTED_QUERY` is supported.

Type: String

Valid Values: `PROTECTED_QUERY`

Required: Yes

createTime

The time the analysis log export was created.

Type: Timestamp

Required: Yes

membershipId

The unique identifier of the membership that the analysis log export belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

resultConfiguration

Contains the details needed to write the exported analysis logs.

Type: AnalysisLogExportResultConfiguration object

Required: Yes

status

The status of the analysis log export. Possible values are:

- `IN_PROGRESS` – The export is currently running.
- `SUCCESS` – The export completed successfully.
- `FAILED` – The export failed. See the `error` field for details.

Type: String

Valid Values: `IN_PROGRESS | SUCCESS | FAILED`

Required: Yes

updateTime

The time the analysis log export was last updated.

Type: Timestamp

Required: Yes

error

The analysis log export error. This is present only when the export `status` is `FAILED`.

Type: AnalysisLogExportError object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisLogExportError

The analysis log export error.

Contents

code

The error code for the analysis log export.

Type: String

Required: Yes

message

The message for the analysis log export error.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisLogExportOutputConfiguration

Contains configuration details for analysis log export output.

Contents

s3

Required configuration for an analysis log export with an `s3` output type.

Type: AnalysisLogExportS3OutputConfiguration object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisLogExportResultConfiguration

Contains configurations for analysis log export results.

Contents

outputConfiguration

The configuration for analysis log export results.

Type: AnalysisLogExportOutputConfiguration object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisLogExportS3OutputConfiguration

Contains output information for an analysis log export with an S3 output type.

The exported logs are written under the bucket and key prefix that you specify. The path includes the collaboration ID, the protected query ID, and the analysis log export ID. Because the path includes the export ID, exporting the same query more than once doesn't overwrite the logs from an earlier export.

> **Note**
>
> The exported logs are encrypted using the default encryption configuration of the destination bucket. AWS Clean Rooms doesn't accept a KMS key for log export. To encrypt the exported logs with a customer managed key, configure the bucket's default encryption to use that key before you export.

Contents

bucket

The S3 bucket that the exported analysis logs are written to. The bucket must be in the same AWS Region as the collaboration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `.*(?!^(\d+\.)+\d+$)(^(([a-z0-9]|[a-z0-9][a-z0-9\-]*[a-z0-9])\.)*([a-z0-9]|[a-z0-9][a-z0-9\-]*[a-z0-9])$).*`

Required: Yes

keyPrefix

The S3 key prefix under which the exported analysis logs are written.

Only one export can be in progress at a time for a given query and destination. To export the same query twice at once, use a different key prefix for the second export.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `[\w!.=*/-]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisLogExportSummary

A summary of an analysis log export, including its identifier, status, analysis type, and creation time. Returned by `ListAnalysisLogExports`.

Contents

analysisId

The unique identifier of the protected query that the analysis logs were exported for.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

analysisLogExportId

The unique identifier of the analysis log export.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

analysisType

The type of analysis that the logs were exported for. Currently, only `PROTECTED_QUERY` is supported.

Type: String

Valid Values: `PROTECTED_QUERY`

Required: Yes

createTime

The time the analysis log export was created.

Type: Timestamp

Required: Yes

status

The status of the analysis log export. Possible values are:

- `IN_PROGRESS` – The export is currently running.
- `SUCCESS` – The export completed successfully.
- `FAILED` – The export failed.

Type: String

Valid Values: `IN_PROGRESS | SUCCESS | FAILED`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisParameter

Optional. The member who can query can provide this placeholder for a literal data value in an analysis template.

Contents

name

The name of the parameter. The name must use only alphanumeric or underscore (_) characters.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[0-9a-zA-Z_]+`

Required: Yes

type

The type of parameter.

Type: String

Valid Values: `SMALLINT | INTEGER | BIGINT | DECIMAL | REAL | DOUBLE_PRECISION | BOOLEAN | CHAR | VARCHAR | DATE | TIMESTAMP | TIMESTAMPTZ | TIME | TIMETZ | VARBYTE | BINARY | BYTE | CHARACTER | DOUBLE | FLOAT | INT | LONG | NUMERIC | SHORT | STRING | TIMESTAMP_LTZ | TIMESTAMP_NTZ | TINYINT`

Required: Yes

defaultValue

Optional. The default value that is applied in the analysis template. The member who can query can override this value in the query editor.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisRule

A specification about how data from the configured table can be used in a query.

Contents

collaborationId

The unique ID for the associated collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time the analysis rule was created.

Type: Timestamp

Required: Yes

name

The name for the analysis rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

policy

A policy that describes the associated data usage limitations.

Type: AnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

type

The type of analysis rule.

Type: String

Valid Values: `AGGREGATION | LIST | CUSTOM | ID_MAPPING_TABLE`

Required: Yes

updateTime

The time the analysis rule was last updated.

Type: Timestamp

Required: Yes

collaborationPolicy

Controls on the query specifications that can be run on an associated configured table.

Type: ConfiguredTableAssociationAnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

consolidatedPolicy

The consolidated policy for the analysis rule.

Type: ConsolidatedPolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisRuleAggregation

A type of analysis rule that enables query structure and specified queries that produce aggregate statistics.

Contents

aggregateColumns

The columns that query runners are allowed to use in aggregation queries.

Type: Array of AggregateColumn objects

Array Members: Minimum number of 1 item.

Required: Yes

dimensionColumns

The columns that query runners are allowed to select, group by, or filter by.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

joinColumns

Columns in configured table that can be used in join statements and/or as aggregate columns. They can never be outputted directly.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

outputConstraints

Columns that must meet a specific threshold value (after an aggregation function is applied to it) for each output row to be returned.

Type: Array of AggregationConstraint objects

Array Members: Minimum number of 1 item.

Required: Yes

scalarFunctions

Set of scalar functions that are allowed to be used on dimension columns and the output of aggregation of metrics.

Type: Array of strings

Valid Values: `ABS | CAST | CEILING | COALESCE | CONVERT | CURRENT_DATE | DATEADD | EXTRACT | FLOOR | GETDATE | LN | LOG | LOWER | ROUND | RTRIM | SQRT | SUBSTRING | TO_CHAR | TO_DATE | TO_NUMBER | TO_TIMESTAMP | TRIM | TRUNC | UPPER`

Required: Yes

additionalAnalyses

An indicator as to whether additional analyses (such as AWS Clean Rooms ML) can be applied to the output of the direct query.

The `additionalAnalyses` parameter is currently supported for the list analysis rule (`AnalysisRuleList`) and the custom analysis rule (`AnalysisRuleCustom`).

Type: String

Valid Values: `ALLOWED | REQUIRED | NOT_ALLOWED`

Required: No

allowedJoinOperators

Which logical operators (if any) are to be used in an INNER JOIN match condition. Default is `AND`.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: `OR | AND`

Required: No

joinRequired

Control that requires member who runs query to do a join with their configured table and/or other configured table in query.

Type: String

Valid Values: QUERY_RUNNER

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisRuleCustom

A type of analysis rule that enables the table owner to approve custom SQL queries on their configured tables. It supports differential privacy, minimum aggregation thresholds, and comparison controls.

Contents

allowedAnalyses

The ARN of the analysis templates that are allowed by the custom analysis rule.

Type: Array of strings

Array Members: Minimum number of 0 items.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `(ANY_QUERY|ANY_JOB|arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+)`

Required: Yes

additionalAnalyses

An indicator as to whether additional analyses (such as AWS Clean Rooms ML) can be applied to the output of the direct query.

Type: String

Valid Values: `ALLOWED | REQUIRED | NOT_ALLOWED`

Required: No

aggregationThresholds

The aggregation thresholds that each query output group must satisfy. AWS Clean Rooms filters out any group that represents fewer than the specified number of distinct identities. You can specify at most one threshold. You can't use aggregation thresholds with differential privacy, or when `allowedAnalyses` allows only jobs.

Type: Array of AggregationThreshold objects

Array Members: Fixed number of 1 item.

Required: No

allowedAdditionalAnalyses

The list of allowed additional analyses for the custom analysis rule.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\/[\*\d\w-]+\/configuredaudiencemodelassociation\/[\*\d\w-]+$|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\/[\*\d\w-]+\/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+|\*)`

Required: No

allowedAnalysisProviders

The IDs of the AWS accounts that are allowed to query by the custom analysis rule. Required when `allowedAnalyses` is `ANY_QUERY`.

Type: Array of strings

Array Members: Minimum number of 0 items.

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

allowedResultReceivers

The list of AWS account IDs that are allowed to receive results from queries run on the configured table.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

comparisonControls

The controls that restrict how a query can compare the columns in the configured table. You can't use comparison controls with differential privacy, or when `allowedAnalyses` allows only jobs.

Type: ComparisonControls object

Required: No

differentialPrivacy

The differential privacy configuration.

Type: DifferentialPrivacyConfiguration object

Required: No

disallowedOutputColumns

A list of columns that aren't allowed to be shown in the query output.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisRuleIdMappingTable

Defines details for the analysis rule ID mapping table.

Contents

joinColumns

The columns that query runners are allowed to use in an INNER JOIN statement.

Type: Array of strings

Array Members: Fixed number of 2 items.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

queryConstraints

The query constraints of the analysis rule ID mapping table.

Type: Array of QueryConstraint objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Required: Yes

dimensionColumns

The columns that query runners are allowed to select, group by, or filter by.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisRuleList

A type of analysis rule that enables row-level analysis.

Contents

joinColumns

Columns that can be used to join a configured table with the table of the member who can query and other members' configured tables.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

listColumns

Columns that can be listed in the output.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

additionalAnalyses

An indicator as to whether additional analyses (such as AWS Clean Rooms ML) can be applied to the output of the direct query.

Type: String

Valid Values: `ALLOWED | REQUIRED | NOT_ALLOWED`

Required: No

allowedJoinOperators

The logical operators (if any) that are to be used in an INNER JOIN match condition. Default is AND.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: OR | AND

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisRulePolicy

Controls on the query specifications that can be run on configured table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

v1

Controls on the query specifications that can be run on configured table.

Type: AnalysisRulePolicyV1 object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisRulePolicyV1

Controls on the query specifications that can be run on configured table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

aggregation

Analysis rule type that enables only aggregation queries on a configured table.

Type: AnalysisRuleAggregation object

Required: No

custom

Analysis rule type that enables custom SQL queries on a configured table.

Type: AnalysisRuleCustom object

Required: No

idMappingTable

The ID mapping table.

Type: AnalysisRuleIdMappingTable object

Required: No

list

Analysis rule type that enables only list queries on a configured table.

Type: AnalysisRuleList object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisSchema

A relation within an analysis.

Contents

referencedTables

The tables referenced in the analysis schema.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisSource

The structure that defines the body of the analysis template.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

artifacts

The artifacts of the analysis source.

Type: AnalysisTemplateArtifacts object

Required: No

text

The query text.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisSourceMetadata

The analysis source metadata.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

artifacts

The artifacts of the analysis source metadata.

Type: AnalysisTemplateArtifactMetadata object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisTemplate

The analysis template.

Contents

arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

collaborationArn

The unique ARN for the analysis template's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique ID for the associated collaboration of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time that the analysis template was created.

Type: Timestamp

Required: Yes

format

The format of the analysis template.

Type: String

Valid Values: `SQL | PYSPARK_1_0`

Required: Yes

id

The identifier for the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the member who created the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The identifier of a member who created the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

schema

The entire schema object.

Type: AnalysisSchema object

Required: Yes

source

The source of the analysis template.

Type: AnalysisSource object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

updateTime

The time that the analysis template was last updated.

Type: Timestamp

Required: Yes

analysisParameters

The parameters of the analysis template.

Type: Array of AnalysisParameter objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

errorMessageConfiguration

The configuration that specifies the level of detail in error messages returned by analyses using this template. When set to `DETAILED`, error messages include more information to help troubleshoot issues with PySpark jobs. Detailed error messages may expose underlying data, including sensitive information. Recommended for faster troubleshooting in development and testing environments.

Type: ErrorMessageConfiguration object

Required: No

sourceMetadata

The source metadata for the analysis template.

Type: AnalysisSourceMetadata object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

syntheticDataParameters

The parameters used to generate synthetic data for this analysis template.

Type: SyntheticDataParameters object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

validations

Information about the validations performed on the analysis template.

Type: Array of AnalysisTemplateValidationStatusDetail objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisTemplateArtifact

The analysis template artifact.

Contents

location

The artifact location.

Type: S3Location object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisTemplateArtifactMetadata

The analysis template artifact metadata.

Contents

entryPointHash

The hash of the entry point for the analysis template artifact metadata.

Type: Hash object

Required: Yes

additionalArtifactHashes

Additional artifact hashes for the analysis template.

Type: Array of Hash objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisTemplateArtifacts

The analysis template artifacts.

Contents

entryPoint

The entry point for the analysis template artifacts.

Type: AnalysisTemplateArtifact object

Required: Yes

roleArn

The role ARN for the analysis template artifacts.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@-]+`

Required: Yes

additionalArtifacts

Additional artifacts for the analysis template.

Type: Array of AnalysisTemplateArtifact objects

Array Members: Fixed number of 1 item.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AnalysisTemplateSummary

The metadata of the analysis template.

Contents

arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

collaborationArn

The unique ARN for the analysis template summary's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

A unique identifier for the collaboration that the analysis template summary belongs to. Currently accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time that the analysis template summary was created.

Type: Timestamp

Required: Yes

id

The identifier of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the member who created the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

updateTime

The time that the analysis template summary was last updated.

Type: Timestamp

Required: Yes

description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

isSyntheticData

Indicates if this analysis template summary generated synthetic data.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisTemplateValidationStatusDetail

The status details of the analysis template validation. AWS Clean Rooms Differential Privacy uses a general-purpose query structure to support complex SQL queries and validates whether an analysis template fits that general-purpose query structure. Validation is performed when analysis templates are created and fetched. Because analysis templates are immutable by design, we recommend that you create analysis templates after you associate the configured tables with their analysis rule to your collaboration.

For more information, see https://docs.aws.amazon.com/clean-rooms/latest/userguide/analysis-rules-custom.html#custom-diff-privacy.

Contents

status

The status of the validation.

Type: String

Valid Values: `VALID | INVALID | UNABLE_TO_VALIDATE`

Required: Yes

type

The type of validation that was performed.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY`

Required: Yes

reasons

The reasons for the validation results.

Type: Array of AnalysisTemplateValidationStatusReason objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AnalysisTemplateValidationStatusReason

The reasons for the validation results.

Contents

message

The validation message.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ApprovalStatusDetails

Contains detailed information about the approval state of a given member in the collaboration for a given collaboration change request.

Contents

status

The approval status of a member's vote on the change request. Valid values are PENDING (if they haven't voted), APPROVED, or DENIED.

Type: String

Valid Values: `APPROVED | DENIED | PENDING`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AthenaTableReference

A reference to a table within Athena.

Contents

databaseName

The database name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_]+-)*([a-zA-Z0-9_]+))?`

Required: Yes

tableName

The table reference.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_]+)*([a-zA-Z0-9_]+))?`

Required: Yes

workGroup

The workgroup of the Athena table reference.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `([a-zA-Z0-9._-])*`

Required: Yes

catalogName

The catalog name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

outputLocation

The output location for the Athena table.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

Pattern: `s3://[a-z0-9.-]{3,63}(.*)`

Required: No

region

The AWS Region where the Athena table is located. This parameter is required to uniquely identify and access tables across different Regions.

Type: String

Valid Values: `us-west-1 | us-west-2 | us-east-1 | us-east-2 | af-south-1 | ap-east-1 | ap-south-2 | ap-southeast-1 | ap-southeast-2 | ap-southeast-3 | ap-southeast-5 | ap-southeast-4 | ap-southeast-7 | ap-south-1 | ap-northeast-3 | ap-northeast-1 | ap-northeast-2 | ca-central-1 | ca-west-1 | eu-south-1 | eu-west-3 | eu-south-2 | eu-central-2 | eu-central-1 | eu-north-1 | eu-west-1 | eu-west-2 | me-south-1 | me-central-1 | il-central-1 | sa-east-1 | mx-central-1 | ap-east-2`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchGetCollaborationAnalysisTemplateError

Details of errors thrown by the call to retrieve multiple analysis templates within a collaboration by their identifiers.

Contents

arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

code

An error code for the error.

Type: String

Required: Yes

message

A description of why the call failed.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchGetSchemaAnalysisRuleError

An error that describes why a schema could not be fetched.

Contents

code

An error code for the error.

Type: String

Required: Yes

message

A description of why the call failed.

Type: String

Required: Yes

name

An error name for the error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

type

The analysis rule type.

Type: String

Valid Values: `AGGREGATION | LIST | CUSTOM | ID_MAPPING_TABLE`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchGetSchemaError

An error describing why a schema could not be fetched.

Contents

code

An error code for the error.

Type: String

Required: Yes

message

An error message for the error.

Type: String

Required: Yes

name

An error name for the error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BilledJobResourceUtilization

Information related to the utilization of resources that have been billed or charged for in a given context, such as a protected job.

Contents

units

The number of Clean Rooms Processing Unit (CRPU) hours that have been billed.

Type: Double

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BilledResourceUtilization

Information related to the utilization of resources that have been billed or charged for in a given context, such as a protected query.

Contents

units

The number of Clean Rooms Processing Unit (CRPU) hours that have been billed.

Type: Double

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BudgetParameter

Individual budget parameter configuration that defines specific budget allocation settings for access budgets.

Contents

budget

The budget allocation amount for this specific parameter.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1000000.

Required: Yes

type

The type of budget parameter being configured.

Type: String

Valid Values: `CALENDAR_DAY | CALENDAR_MONTH | CALENDAR_WEEK | LIFETIME`

Required: Yes

autoRefresh

Whether this individual budget parameter automatically refreshes when the budget period resets.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Change

Represents a single change within a collaboration change request, containing the change identifier and specification.

Contents

specification

The specification details for this change.

Type: ChangeSpecification object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

specificationType

The type of specification for this change.

Type: String

Valid Values: `MEMBER | COLLABORATION`

Required: Yes

types

The list of change types that were applied.

Type: Array of strings

Array Members: Minimum number of 1 item.

Valid Values: `ADD_MEMBER | GRANT_RECEIVE_RESULTS_ABILITY | REVOKE_RECEIVE_RESULTS_ABILITY | EDIT_AUTO_APPROVED_CHANGE_TYPES | ADD_PAYER_CANDIDATE | REMOVE_PAYER_CANDIDATE | GRANT_CAN_RECEIVE_MODEL_OUTPUT | GRANT_CAN_RECEIVE_INFERENCE_OUTPUT | REVOKE_CAN_RECEIVE_MODEL_OUTPUT | REVOKE_CAN_RECEIVE_INFERENCE_OUTPUT | GRANT_EXPORT_QUERY_ANALYSIS_LOG_ABILITY | REVOKE_EXPORT_QUERY_ANALYSIS_LOG_ABILITY`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ChangeInput

Specifies a change to apply to a collaboration.

Contents

specification

The specification details for the change. The structure depends on the specification type.

Type: ChangeSpecification object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

specificationType

The type of specification for the change. Currently supports `MEMBER` for member-related changes.

Type: String

Valid Values: `MEMBER | COLLABORATION`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ChangeSpecification

A union that contains the specification details for different types of changes.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

collaboration

The collaboration configuration changes being requested. Currently, this only supports modifying which change types are auto-approved for the collaboration.

Type: CollaborationChangeSpecification object

Required: No

member

The member change specification when the change type is `MEMBER`.

Type: MemberChangeSpecification object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ChildResource

Contains information about a child resource of a given resource in a collaboration.

Contents

ownerAccountId

The AWS account ID of the member who owns the child resource.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

resourceName

The name of the child resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

resourceType

The type of the child resource.

Type: String

Valid Values: `INTERMEDIATE_TABLE`

Required: Yes

resourceId

The unique identifier of the child resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

resourceStatus

The current status of the child resource.

Type: String

Valid Values: `CREATED | POPULATE_STARTED | POPULATE_SUCCESS | POPULATE_FAILED | DISALLOWED_BY_DATA_PROVIDER | BASE_TABLE_REMOVED | RETENTION_PERIOD_EXPIRED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Collaboration

The multi-party data share environment. The collaboration contains metadata about its purpose and participants.

Contents

arn

The unique ARN for the collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

createTime

The time when the collaboration was created.

Type: Timestamp

Required: Yes

creatorAccountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

creatorDisplayName

A display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

id

The unique ID for the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

memberStatus

The status of a member in a collaboration.

Type: String

Valid Values: `INVITED | ACTIVE | LEFT | REMOVED`

Required: Yes

name

A human-readable identifier provided by the collaboration owner. Display names are not unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

queryLogStatus

An indicator as to whether query logging has been enabled or disabled for the collaboration.

When ENABLED, AWS Clean Rooms logs details about queries run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

Required: Yes

updateTime

The time the collaboration metadata was last updated.

Type: Timestamp

Required: Yes

allowedResultRegions

The AWS Regions where collaboration query results can be stored. Returns the list of Region identifiers that were specified when the collaboration was created. This list is used to enforce regional storage policies and compliance requirements.

Type: Array of strings

Valid Values: us-west-1 | us-west-2 | us-east-1 | us-east-2 | af-south-1 | ap-east-1 | ap-east-2 | ap-south-2 | ap-southeast-1 | ap-southeast-2 | ap-southeast-3 | ap-southeast-5 | ap-southeast-4 | ap-southeast-7 | ap-south-1 | ap-northeast-3 | ap-northeast-1 | ap-northeast-2 | ca-central-1 | ca-west-1 | eu-south-1 | eu-west-3 | eu-south-2 | eu-central-2 | eu-central-1 | eu-north-1 | eu-west-1 | eu-west-2 | me-south-1 | me-central-1 | il-central-1 | sa-east-1 | mx-central-1

Required: No

analyticsEngine

The analytics engine for the collaboration.

> **Note**
>
> After July 16, 2025, the CLEAN_ROOMS_SQL parameter will no longer be available.

Type: String

Valid Values: `SPARK | CLEAN_ROOMS_SQL`

Required: No

autoApprovedChangeTypes

The types of change requests that are automatically approved for this collaboration.

Type: Array of strings

Valid Values: `ADD_MEMBER | GRANT_RECEIVE_RESULTS_ABILITY | REVOKE_RECEIVE_RESULTS_ABILITY | GRANT_EXPORT_QUERY_ANALYSIS_LOG_ABILITY | REVOKE_EXPORT_QUERY_ANALYSIS_LOG_ABILITY`

Required: No

dataEncryptionMetadata

The settings for client-side encryption for cryptographic computing.

Type: DataEncryptionMetadata object

Required: No

description

A description of the collaboration provided by the collaboration owner.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `(?!\s+$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

isMetricsEnabled

An indicator as to whether metrics are enabled for the collaboration.

When `true`, collaboration members can opt in to Amazon CloudWatch metrics for their membership queries.

Type: Boolean

Required: No

jobLogStatus

An indicator as to whether job logging has been enabled or disabled for the collaboration.

When `ENABLED`, AWS Clean Rooms logs details about jobs run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

membershipArn

The unique ARN for your membership within the collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: No

membershipId

The unique ID for your membership within the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationAnalysisTemplate

The analysis template within a collaboration.

Contents

arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

collaborationArn

The unique ARN for the analysis template's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time that the analysis template within a collaboration was created.

Type: Timestamp

Required: Yes

creatorAccountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

format

The format of the analysis template in the collaboration.

Type: String

Valid Values: `SQL | PYSPARK_1_0`

Required: Yes

id

The identifier of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

schema

The entire schema object.

Type: AnalysisSchema object

Required: Yes

updateTime

The time that the analysis template in the collaboration was last updated.

Type: Timestamp

Required: Yes

analysisParameters

The analysis parameters that have been specified in the analysis template.

Type: Array of AnalysisParameter objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

errorMessageConfiguration

The configuration that specifies the level of detail in error messages returned by analyses using this template. When set to `DETAILED`, error messages include more information to help troubleshoot issues with PySpark jobs. Detailed error messages may expose underlying data, including sensitive information. Recommended for faster troubleshooting in development and testing environments.

Type: ErrorMessageConfiguration object

Required: No

source

The source of the analysis template within a collaboration.

Type: AnalysisSource object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

sourceMetadata

The source metadata for the collaboration analysis template.

Type: AnalysisSourceMetadata object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

syntheticDataParameters

The synthetic data generation parameters configured for this collaboration analysis template.

Type: SyntheticDataParameters object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

validations

The validations that were performed.

Type: Array of AnalysisTemplateValidationStatusDetail objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationAnalysisTemplateSummary

The metadata of the analysis template within a collaboration.

Contents

arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

collaborationArn

The unique ARN for the analysis template's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time that the summary of the analysis template in a collaboration was created.

Type: Timestamp

Required: Yes

creatorAccountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

id

The identifier of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

name

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9_](([a-zA-Z0-9_]+-)*([a-zA-Z0-9_]+))?

Required: Yes

updateTime

The time that the summary of the analysis template in the collaboration was last updated.

Type: Timestamp

Required: Yes

description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

isSyntheticData

Indicates if this collaboration analysis template uses synthetic data generation.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationChangeRequest

Represents a request to modify a collaboration. Change requests enable structured modifications to collaborations after they have been created.

Contents

changes

The list of changes specified in this change request.

Type: Array of Change objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

collaborationId

The unique identifier for the collaboration being modified.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time when the change request was created.

Type: Timestamp

Required: Yes

id

The unique identifier for the change request.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

isAutoApproved

Whether the change request was automatically approved based on the collaboration's auto-approval settings.

Type: Boolean

Required: Yes

status

The current status of the change request. Valid values are `PENDING`, `APPROVED`, `DENIED`, `COMMITTED`, and `CANCELLED`.

Type: String

Valid Values: `PENDING | APPROVED | CANCELLED | DENIED | COMMITTED`

Required: Yes

updateTime

The time when the change request was last updated.

Type: Timestamp

Required: Yes

approvals

A list of approval details from collaboration members, including approval status and multi-party approval workflow information.

Type: String to ApprovalStatusDetails object map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Fixed length of 12.

Key Pattern: \d+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationChangeRequestSummary

Summary information about a collaboration change request.

Contents

changes

Summary of the changes in this change request.

Type: Array of Change objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

collaborationId

The unique identifier for the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time when the change request was created.

Type: Timestamp

Required: Yes

id

The unique identifier for the change request.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

isAutoApproved

Whether the change request was automatically approved.

Type: Boolean

Required: Yes

status

The current status of the change request.

Type: String

Valid Values: `PENDING | APPROVED | CANCELLED | DENIED | COMMITTED`

Required: Yes

updateTime

The time when the change request was last updated.

Type: Timestamp

Required: Yes

approvals

Summary of approval statuses from all collaboration members for this change request.

Type: String to ApprovalStatusDetails object map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Fixed length of 12.

Key Pattern: \d+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationChangeSpecification

Defines the specific changes being requested for a collaboration, including configuration modifications and approval requirements.

Contents

autoApprovedChangeTypes

Defines requested updates to properties of the collaboration. Currently, this only supports modifying which change types are auto-approved for the collaboration.

Type: Array of strings

Valid Values: `ADD_MEMBER | GRANT_RECEIVE_RESULTS_ABILITY | REVOKE_RECEIVE_RESULTS_ABILITY | GRANT_EXPORT_QUERY_ANALYSIS_LOG_ABILITY | REVOKE_EXPORT_QUERY_ANALYSIS_LOG_ABILITY`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationConfiguredAudienceModelAssociation

The configured audience model association within a collaboration.

Contents

arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

collaborationArn

The unique ARN for the configured audience model's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

A unique identifier for the collaboration that the configured audience model associations belong to. Accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configure audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

creatorAccountId

The identifier used to reference members of the collaboration. Only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

id

The identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

description

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationConfiguredAudienceModelAssociationSummary

A summary of the configured audience model association in the collaboration.

Contents

arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

collaborationArn

The unique ARN for the configured audience model's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

A unique identifier for the collaboration that the configured audience model associations belong to. Accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

creatorAccountId

The identifier used to reference members of the collaboration. Only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

id

The identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

name

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*

Required: Yes

updateTime

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

description

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationIdNamespaceAssociation

Defines details for the collaboration ID namespace association.

Contents

arn

The Amazon Resource Name (ARN) of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idnamespaceassociation/[\d\w-]+`

Required: Yes

collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that contains the collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the collaboration ID namespace association was created.

Type: Timestamp

Required: Yes

creatorAccountId

The unique identifier of the AWS account that created the collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

id

The unique identifier of the collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

inputReferenceConfig

The input reference configuration that's necessary to create the collaboration ID namespace association.

Type: IdNamespaceAssociationInputReferenceConfig object

Required: Yes

inputReferenceProperties

The input reference properties that are needed to create the collaboration ID namespace association.

Type: IdNamespaceAssociationInputReferenceProperties object

Required: Yes

name

The name of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The most recent time at which the collaboration ID namespace was updated.

Type: Timestamp

Required: Yes

description

The description of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

idMappingConfig

The configuration settings for the ID mapping table.

Type: IdMappingConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationIdNamespaceAssociationSummary

Provides summary information about the collaboration ID namespace association.

Contents

arn

The Amazon Resource Name (ARN) of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idnamespaceassociation/[\d\w-]+`

Required: Yes

collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that contains this collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the collaboration ID namespace association was created.

Type: Timestamp

Required: Yes

creatorAccountId

The AWS account that created this collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

id

The unique identifier of the collaboration ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

inputReferenceConfig

The input reference configuration that's used to create the collaboration ID namespace association.

Type: IdNamespaceAssociationInputReferenceConfig object

Required: Yes

inputReferenceProperties

The input reference properties that are used to create the collaboration ID namespace association.

Type: IdNamespaceAssociationInputReferencePropertiesSummary object

Required: Yes

name

The name of the collaboration ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The most recent time at which the collaboration ID namespace association was updated.

Type: Timestamp

Required: Yes

description

The description of the collaboration ID namepsace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationPrivacyBudgetSummary

A summary of the collaboration privacy budgets. This summary includes the collaboration information, creation information, epsilon provided, and utility in terms of aggregations.

Contents

budget

The includes epsilon provided and utility in terms of aggregations.

Type: PrivacyBudget object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

collaborationArn

The ARN of the collaboration that includes this privacy budget.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that includes this privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the privacy budget was created.

Type: Timestamp

Required: Yes

creatorAccountId

The unique identifier of the account that created this privacy budget.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

id

The unique identifier of the collaboration privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

privacyBudgetTemplateArn

The ARN of the collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+

Required: Yes

privacyBudgetTemplateId

The unique identifier of the collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

type

The type of privacy budget template.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY | ACCESS_BUDGET`

Required: Yes

updateTime

The most recent time at which the privacy budget was updated.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationPrivacyBudgetTemplate

An array that specifies the information for a collaboration's privacy budget template.

Contents

arn

The ARN of the collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

autoRefresh

How often the privacy budget refreshes.

> **Important**
>
> If you plan to regularly bring new data into the collaboration, use `CALENDAR_MONTH` to automatically get a new privacy budget for the collaboration every calendar month. Choosing this option allows arbitrary amounts of information to be revealed about rows of the data when repeatedly queried across refreshes. Avoid choosing this if the same rows will be repeatedly queried between privacy budget refreshes.

Type: String

Valid Values: `CALENDAR_MONTH | NONE`

Required: Yes

collaborationArn

The ARN of the collaboration that includes this collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that includes this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the collaboration privacy budget template was created.

Type: Timestamp

Required: Yes

creatorAccountId

The unique identifier of the account that created this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

id

The unique identifier of the collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

parameters

Specifies the epsilon and noise parameters for the privacy budget template.

Type: PrivacyBudgetTemplateParametersOutput object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

privacyBudgetType

The type of privacy budget template.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY | ACCESS_BUDGET`

Required: Yes

updateTime

The most recent time at which the collaboration privacy budget template was updated.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationPrivacyBudgetTemplateSummary

A summary of the collaboration's privacy budget template. This summary includes information about who created the privacy budget template and what collaborations it belongs to.

Contents

arn

The ARN of the collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

collaborationArn

The ARN of the collaboration that contains this collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that contains this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the collaboration privacy budget template was created.

Type: Timestamp

Required: Yes

creatorAccountId

The unique identifier of the account that created this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

id

The unique identifier of the collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

privacyBudgetType

The type of the privacy budget template.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY | ACCESS_BUDGET`

Required: Yes

updateTime

The most recent time at which the collaboration privacy budget template was updated.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CollaborationSummary

The metadata of the collaboration.

Contents

arn

The ARN of the collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

createTime

The time when the collaboration was created.

Type: Timestamp

Required: Yes

creatorAccountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

creatorDisplayName

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

id

The identifier for the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

memberStatus

The status of a member in a collaboration.

Type: String

Valid Values: `INVITED | ACTIVE | LEFT | REMOVED`

Required: Yes

name

A human-readable identifier provided by the collaboration owner. Display names are not unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The time the collaboration metadata was last updated.

Type: Timestamp

Required: Yes

analyticsEngine

The analytics engine.

> **Note**
>
> After July 16, 2025, the `CLEAN_ROOMS_SQL` parameter will no longer be available.

Type: String

Valid Values: `SPARK | CLEAN_ROOMS_SQL`

Required: No

membershipArn

The ARN of a member in a collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: No

membershipId

The identifier of a member in a collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Column

A column within a schema relation, derived from the underlying table.

Contents

name

The name of the column.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

type

The type of the column.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnClassificationDetails

Contains classification information for data columns, including mappings that specify how columns should be handled during synthetic data generation and privacy analysis.

Contents

columnMapping

A mapping that defines the classification of data columns for synthetic data generation and specifies how each column should be handled during the privacy-preserving data synthesis process.

Type: Array of SyntheticDataColumnProperties objects

Array Members: Minimum number of 5 items. Maximum number of 1000 items.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ColumnLineageEntry

Contains column lineage information that traces a disallowed output column back to its source in a base table.

Contents

column

The name of the column in the intermediate table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

sourceAccountId

The AWS account ID of the owner of the source table.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

sourceColumn

The name of the column in the source table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

sourceId

The unique identifier of the source table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

sourceName

The name of the source table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

sourceType

The type of the source table.

Type: String

Valid Values: `TABLE | INTERMEDIATE_TABLE | ID_MAPPING_TABLE`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComparisonControls

Specifies how a query can compare the columns in a table, including literal comparisons and column-to-column comparisons.

Contents

allowedColumnComparisonColumns

The columns that a query can compare to another column, for example, in a join, a WHERE clause, a GROUP BY clause, or a window function. AWS Clean Rooms rejects a query that uses any other column in a column-to-column comparison. Specify an empty list to block column-to-column comparison on every column.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

allowedLiteralComparisonColumns

The columns that a query can compare to literal values, for example, in a WHERE clause. AWS Clean Rooms rejects a query that compares any other column to a literal value. Specify an empty list to block literal comparison on every column. You can't specify a column that you also use as an identity column in an aggregation threshold.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ComputeConfiguration

The configuration of the compute resources for an analysis with the Spark analytics engine.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

worker

The worker configuration for the compute environment.

Type: WorkerComputeConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfigurationDetails

The configuration details.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

directAnalysisConfigurationDetails

The direct analysis configuration details.

Type: DirectAnalysisConfigurationDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredAudienceModelAssociation

Details about the configured audience model association.

Contents

arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

A unique identifier of the collaboration that contains this configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that was used for this configured audience model association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

id

A unique identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

manageResourcePolicies

When `TRUE`, indicates that the resource policy for the configured audience model resource being associated is configured for AWS Clean Rooms to manage permissions related to the given collaboration. When `FALSE`, indicates that the configured audience model resource owner will manage permissions related to the given collaboration.

Type: Boolean

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the membership that contains this configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

A unique identifier for the membership that contains this configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

description

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredAudienceModelAssociationSummary

A summary of the configured audience model association.

Contents

arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

A unique identifier of the collaboration that configured audience model is associated with.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that was used for this configured audience model association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

createTime

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

id

A unique identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the membership that contains the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

A unique identifier of the membership that contains the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

description

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTable

A table that has been configured for use in a collaboration.

Contents

allowedColumns

The columns within the underlying AWS Glue table that can be used within collaborations.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

analysisMethod

The analysis method for the configured table.

`DIRECT_QUERY` allows SQL queries to be run directly on this table.

`DIRECT_JOB` allows PySpark jobs to be run directly on this table.

`MULTIPLE` allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: `DIRECT_QUERY | DIRECT_JOB | MULTIPLE`

Required: Yes

analysisRuleTypes

The types of analysis rules associated with this configured table. Currently, only one analysis rule may be associated with a configured table.

Type: Array of strings

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

arn

The unique ARN for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

createTime

The time the configured table was created.

Type: Timestamp

Required: Yes

id

The unique ID for the configured table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

A name for the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

tableReference

The table that this configured table represents.

Type: TableReference object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

updateTime

The time the configured table was last updated

Type: Timestamp

Required: Yes

description

A description for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

selectedAnalysisMethods

The selected analysis methods for the configured table.

Type: Array of strings

Valid Values: `DIRECT_QUERY | DIRECT_JOB`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAnalysisRule

A configured table analysis rule, which limits how data for this table can be used.

Contents

configuredTableArn

The unique ARN for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

configuredTableId

The unique ID for the configured table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time the configured table analysis rule was created.

Type: Timestamp

Required: Yes

policy

The policy that controls SQL query rules.

Type: ConfiguredTableAnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

type

The type of configured table analysis rule.

Type: String

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

updateTime

The time the configured table analysis rule was last updated.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAnalysisRulePolicy

Controls on the query specifications that can be run on a configured table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

v1

Controls on the query specifications that can be run on a configured table.

Type: ConfiguredTableAnalysisRulePolicyV1 object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAnalysisRulePolicyV1

Controls on the query specifications that can be run on a configured table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

aggregation

Analysis rule type that enables only aggregation queries on a configured table.

Type: AnalysisRuleAggregation object

Required: No

custom

A type of analysis rule that enables the table owner to approve custom SQL queries on their configured tables. It supports differential privacy, minimum aggregation thresholds, and comparison controls.

Type: AnalysisRuleCustom object

Required: No

list

Analysis rule type that enables only list queries on a configured table.

Type: AnalysisRuleList object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAssociation

A configured table association links a configured table to a collaboration.

Contents

arn

The unique ARN for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtableassociation/[\d\w-]+/[\d\w-]+`

Required: Yes

configuredTableArn

The unique ARN for the configured table that the association refers to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

configuredTableId

The unique ID for the configured table that the association refers to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time the configured table association was created.

Type: Timestamp

Required: Yes

id

The unique ID for the configured table association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The unique ARN for the membership this configured table association belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The unique ID for the membership this configured table association belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the configured table association, in lowercase. The table is identified by this name when running protected queries against the underlying data.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

roleArn

The service will assume this role to access catalog metadata and query the table.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@-]+`

Required: Yes

updateTime

The time the configured table association was last updated.

Type: Timestamp

Required: Yes

analysisRuleTypes

The analysis rule types for the configured table association.

Type: Array of strings

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: No

childResources

The child resources that depend on this configured table association.

Type: Array of ChildResource objects

Required: No

description

A description of the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAssociationAnalysisRule

An analysis rule for a configured table association. This analysis rule specifies how data from the table can be used within its associated collaboration. In the console, the `ConfiguredTableAssociationAnalysisRule` is referred to as the *collaboration analysis rule*.

Contents

configuredTableAssociationArn

The Amazon Resource Name (ARN) of the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtableassociation/[\d\w-]+/[\d\w-]+`

Required: Yes

configuredTableAssociationId

The unique identifier for the configured table association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The creation time of the configured table association analysis rule.

Type: Timestamp

Required: Yes

membershipIdentifier

The membership identifier for the configured table association analysis rule.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

policy

The policy of the configured table association analysis rule.

Type: ConfiguredTableAssociationAnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

type

The type of the configured table association analysis rule.

Type: String

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

updateTime

The update time of the configured table association analysis rule.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAssociationAnalysisRuleAggregation

The configured table association analysis rule applied to a configured table with the aggregation analysis rule.

Contents

allowedAdditionalAnalyses

The list of resources or wildcards (ARNs) that are allowed to perform additional analysis on query output.

The `allowedAdditionalAnalyses` parameter is currently supported for the list analysis rule (`AnalysisRuleList`) and the custom analysis rule (`AnalysisRuleCustom`).

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\/[\*\d\w-]+\/configuredaudiencemodelassociation\/[\*\d\w-]+$|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\/[\*\d\w-]+\/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+|\*)`

Required: No

allowedResultReceivers

The list of collaboration members who are allowed to receive results of queries run with this configured table.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAssociationAnalysisRuleCustom

The configured table association analysis rule applied to a configured table with the custom analysis rule.

Contents

allowedAdditionalAnalyses

The list of resources or wildcards (ARNs) that are allowed to perform additional analysis on query output.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\/[\*\d\w-]+\/configuredaudiencemodelassociation\/[\*\d\w-]+$|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\/[\*\d\w-]+\/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+|\*)`

Required: No

allowedResultReceivers

The list of collaboration members who are allowed to receive results of queries run with this configured table.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAssociationAnalysisRuleList

The configured table association analysis rule applied to a configured table with the list analysis rule.

Contents

allowedAdditionalAnalyses

The list of resources or wildcards (ARNs) that are allowed to perform additional analysis on query output.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\/[\*\d\w-]+\/configuredaudiencemodelassociation\/[\*\d\w-]+$|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\/[\*\d\w-]+\/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+|\*)`

Required: No

allowedResultReceivers

The list of collaboration members who are allowed to receive results of queries run with this configured table.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAssociationAnalysisRulePolicy

Controls on the query specifications that can be run on an associated configured table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

v1

The policy for the configured table association analysis rule.

Type: ConfiguredTableAssociationAnalysisRulePolicyV1 object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAssociationAnalysisRulePolicyV1

Controls on the query specifications that can be run on an associated configured table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

aggregation

Analysis rule type that enables only aggregation queries on a configured table.

Type: ConfiguredTableAssociationAnalysisRuleAggregation object

Required: No

custom

Analysis rule type that enables the table owner to approve custom SQL queries on their configured tables. It supports differential privacy.

Type: ConfiguredTableAssociationAnalysisRuleCustom object

Required: No

list

Analysis rule type that enables only list queries on a configured table.

Type: ConfiguredTableAssociationAnalysisRuleList object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAssociationSchemaTypeProperties

Contains the schema type properties for a configured table association.

Contents

configuredTableAssociationId

The unique identifier of the configured table association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableAssociationSummary

The configured table association summary for the objects listed by the request.

Contents

arn

The unique ARN for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtableassociation/[\d\w-]+/[\d\w-]+`

Required: Yes

configuredTableId

The unique configured table ID that this configured table association refers to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time the configured table association was created.

Type: Timestamp

Required: Yes

id

The unique ID for the configured table association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The unique ARN for the membership that the configured table association belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The unique ID for the membership that the configured table association belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the configured table association. The table is identified by this name when running Protected Queries against the underlying data.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

updateTime

The time the configured table association was last updated.

Type: Timestamp

Required: Yes

analysisRuleTypes

The analysis rule types that are associated with the configured table associations in this summary.

Type: Array of strings

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfiguredTableSummary

The configured table summary for the objects listed by the request.

Contents

analysisMethod

The analysis method for the configured tables.

`DIRECT_QUERY` allows SQL queries to be run directly on this table.

`DIRECT_JOB` allows PySpark jobs to be run directly on this table.

`MULTIPLE` allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: `DIRECT_QUERY | DIRECT_JOB | MULTIPLE`

Required: Yes

analysisRuleTypes

The types of analysis rules associated with this configured table.

Type: Array of strings

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

arn

The unique ARN of the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

createTime

The time the configured table was created.

Type: Timestamp

Required: Yes

id

The unique ID of the configured table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The time the configured table was last updated.

Type: Timestamp

Required: Yes

selectedAnalysisMethods

The selected analysis methods for the configured table summary.

Type: Array of strings

Valid Values: `DIRECT_QUERY | DIRECT_JOB`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConsolidatedPolicy

Controls on the analysis specifications that can be run on a configured table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

v1

The consolidated policy version 1.

Type: ConsolidatedPolicyV1 object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConsolidatedPolicyAggregation

Controls on the analysis specifications that can be run on a configured table.

Contents

aggregateColumns

Aggregate columns in consolidated policy aggregation.

Type: Array of AggregateColumn objects

Array Members: Minimum number of 1 item.

Required: Yes

dimensionColumns

The dimension columns of the consolidated policy aggregation.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

joinColumns

The columns to join on.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

outputConstraints

The output constraints of the consolidated policy aggregation.

Type: Array of AggregationConstraint objects

Array Members: Minimum number of 1 item.

Required: Yes

scalarFunctions

The scalar functions.

Type: Array of strings

Valid Values: `ABS | CAST | CEILING | COALESCE | CONVERT | CURRENT_DATE | DATEADD | EXTRACT | FLOOR | GETDATE | LN | LOG | LOWER | ROUND | RTRIM | SQRT | SUBSTRING | TO_CHAR | TO_DATE | TO_NUMBER | TO_TIMESTAMP | TRIM | TRUNC | UPPER`

Required: Yes

additionalAnalyses

Additional analyses for the consolidated policy aggregation.

Type: String

Valid Values: `ALLOWED | REQUIRED | NOT_ALLOWED`

Required: No

allowedAdditionalAnalyses

The additional analyses allowed by the consolidated policy aggregation.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\/[\*\d\w-]+\/configuredaudiencemodelassociation\/[\*\d\w-]+$|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\/[\*\d\w-]+\/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+|\*)`

Required: No

allowedJoinOperators

The allowed join operators.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: `OR | AND`

Required: No

allowedResultReceivers

The allowed result receivers.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

joinRequired

Join required

Type: String

Valid Values: `QUERY_RUNNER`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConsolidatedPolicyCustom

Controls on the analysis specifications that can be run on a configured table.

Contents

allowedAnalyses

The allowed analyses.

Type: Array of strings

Array Members: Minimum number of 0 items.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `(ANY_QUERY|ANY_JOB|arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+)`

Required: Yes

additionalAnalyses

Additional analyses for the consolidated policy.

Type: String

Valid Values: `ALLOWED | REQUIRED | NOT_ALLOWED`

Required: No

aggregationThresholds

The aggregation thresholds for the consolidated policy.

Type: Array of AggregationThreshold objects

Array Members: Fixed number of 1 item.

Required: No

allowedAdditionalAnalyses

The additional analyses allowed by the consolidated policy.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\/[\*\d\w-]+\/configuredaudiencemodelassociation\/[\*\d\w-]+$|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\/[\*\d\w-]+\/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+|\*)`

Required: No

allowedAnalysisProviders

The allowed analysis providers.

Type: Array of strings

Array Members: Minimum number of 0 items.

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

allowedResultReceivers

The allowed result receivers.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

comparisonControls

The comparison controls for the consolidated policy.

Type: ComparisonControls object

Required: No

differentialPrivacy

Specifies the unique identifier for your users.

Type: DifferentialPrivacyConfiguration object

Required: No

disallowedOutputColumns

Disallowed output columns

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConsolidatedPolicyList

Controls on the analysis specifications that can be run on a configured table.

Contents

joinColumns

The columns to join on.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

listColumns

The columns in the consolidated policy list.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

additionalAnalyses

Additional analyses for the consolidated policy list.

Type: String

Valid Values: `ALLOWED | REQUIRED | NOT_ALLOWED`

Required: No

allowedAdditionalAnalyses

The additional analyses allowed by the consolidated policy list.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\/[\*\d\w-]+\/configuredaudiencemodelassociation\/[\*\d\w-]+$|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\/[\*\d\w-]+\/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+|\*)`

Required: No

allowedJoinOperators

The allowed join operators in the consolidated policy list.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: `OR | AND`

Required: No

allowedResultReceivers

The allowed result receivers.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConsolidatedPolicyV1

Controls on the analysis specifications that can be run on a configured table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

aggregation

The aggregation setting for the consolidated policy.

Type: ConsolidatedPolicyAggregation object

Required: No

custom

Custom policy

Type: ConsolidatedPolicyCustom object

Required: No

list

The list of consolidated policies.

Type: ConsolidatedPolicyList object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataEncryptionMetadata

The settings for client-side encryption for cryptographic computing.

Contents

allowCleartext

Indicates whether encrypted tables can contain cleartext data (TRUE) or are to cryptographically process every column (FALSE).

Type: Boolean

Required: Yes

allowDuplicates

Indicates whether Fingerprint columns can contain duplicate entries (TRUE) or are to contain only non-repeated values (FALSE).

Type: Boolean

Required: Yes

allowJoinsOnColumnsWithDifferentNames

Indicates whether Fingerprint columns can be joined on any other Fingerprint column with a different name (TRUE) or can only be joined on Fingerprint columns of the same name (FALSE).

Type: Boolean

Required: Yes

preserveNulls

Indicates whether NULL values are to be copied as NULL to encrypted tables (TRUE) or cryptographically processed (FALSE).

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyColumn

Specifies the name of the column that contains the unique identifier of your users, whose privacy you want to protect.

Contents

name

The name of the column, such as user_id, that contains the unique identifier of your users, whose privacy you want to protect. If you want to turn on differential privacy for two or more tables in a collaboration, you must configure the same column as the user identifier column in both analysis rules.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyConfiguration

Specifies the unique identifier for your users.

Contents

columns

The name of the column (such as user_id) that contains the unique identifier of your users whose privacy you want to protect. If you want to turn on differential privacy for two or more tables in a collaboration, you must configure the same column as the user identifier column in both analysis rules.

Type: Array of DifferentialPrivacyColumn objects

Array Members: Fixed number of 1 item.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyParameters

An array that contains the sensitivity parameters.

Contents

sensitivityParameters

Provides the sensitivity parameters that you can use to better understand the total amount of noise in query results.

Type: Array of DifferentialPrivacySensitivityParameters objects

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyPreviewAggregation

Provides an estimate of the number of aggregation functions that the member who can query can run given the epsilon and noise parameters.

Contents

maxCount

The maximum number of aggregations that the member who can query can run given the epsilon and noise parameters.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

type

The type of aggregation function.

Type: String

Valid Values: `AVG | COUNT | COUNT_DISTINCT | SUM | STDDEV`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyPreviewParametersInput

The epsilon and noise parameters that you want to preview.

Contents

epsilon

The epsilon value that you want to preview.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

usersNoisePerQuery

Noise added per query is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyPrivacyBudget

Specifies the configured epsilon value and the utility in terms of total aggregations, as well as the remaining aggregations available.

Contents

aggregations

This information includes the configured epsilon value and the utility in terms of total aggregations, as well as the remaining aggregations.

Type: Array of DifferentialPrivacyPrivacyBudgetAggregation objects

Required: Yes

epsilon

The epsilon value that you configured.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyPrivacyBudgetAggregation

Information about the total number of aggregations, as well as the remaining aggregations.

Contents

maxCount

The maximum number of aggregation functions that you can perform with the given privacy budget.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

remainingCount

The remaining number of aggregation functions that can be run with the available privacy budget.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

type

The different types of aggregation functions that you can perform.

Type: String

Valid Values: `AVG | COUNT | COUNT_DISTINCT | SUM | STDDEV`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyPrivacyImpact

Information about the number of aggregation functions that the member who can query can run given the epsilon and noise parameters.

Contents

aggregations

The number of aggregation functions that you can perform.

Type: Array of DifferentialPrivacyPreviewAggregation objects

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacySensitivityParameters

Provides the sensitivity parameters.

Contents

aggregationExpression

The aggregation expression that was run.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

aggregationType

The type of aggregation function that was run.

Type: String

Valid Values: `AVG | COUNT | COUNT_DISTINCT | SUM | STDDEV`

Required: Yes

userContributionLimit

The maximum number of rows contributed by a user in a SQL query.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

maxColumnValue

The upper bound of the aggregation expression.

Type: Float

Required: No

minColumnValue

The lower bound of the aggregation expression.

Type: Float

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyTemplateParametersInput

The epsilon and noise parameter values that you want to use for the differential privacy template.

Contents

epsilon

The epsilon value that you want to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

usersNoisePerQuery

Noise added per query is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyTemplateParametersOutput

The epsilon and noise parameter values that were used for the differential privacy template.

Contents

epsilon

The epsilon value that you specified.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

usersNoisePerQuery

Noise added per query is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DifferentialPrivacyTemplateUpdateParameters

The epsilon and noise parameter values that you want to update in the differential privacy template.

Contents

epsilon

The updated epsilon value that you want to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

usersNoisePerQuery

The updated value of noise added per query. It is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DirectAnalysisConfigurationDetails

The direct analysis configuration details.

Contents

receiverAccountIds

The account IDs for the member who received the results of a protected query.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ErrorMessageConfiguration

A structure that defines the level of detail included in error messages returned by PySpark jobs. This configuration allows you to control the verbosity of error messages to help with troubleshooting PySpark jobs while maintaining appropriate security controls.

Contents

type

The level of detail for error messages returned by the PySpark job. When set to DETAILED, error messages include more information to help troubleshoot issues with your PySpark job.

Because this setting may expose sensitive data, it is recommended for development and testing environments.

Type: String

Valid Values: `DETAILED`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GlueTableReference

A reference to a table within an AWS Glue data catalog.

Contents

databaseName

The name of the database the AWS Glue table belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_]+-)*([a-zA-Z0-9_]+))?`

Required: Yes

tableName

The name of the AWS Glue table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

region

The AWS Region where the AWS Glue table is located. This parameter is required to uniquely identify and access tables across different Regions.

Type: String

Valid Values: `us-west-1 | us-west-2 | us-east-1 | us-east-2 | af-south-1 | ap-east-1 | ap-south-2 | ap-southeast-1 | ap-southeast-2 | ap-southeast-3 | ap-southeast-5 | ap-southeast-4 | ap-southeast-7 | ap-south-1 | ap-northeast-3 | ap-northeast-1 | ap-northeast-2 | ca-central-1 | ca-west-1 | eu-south-1 | eu-west-3 | eu-south-2 | eu-central-2 | eu-central-1 | eu-north-1 | eu-west-1 | eu-west-2 | me-`

south-1 | me-central-1 | il-central-1 | sa-east-1 | mx-central-1 | ap-east-2

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Hash

Hash

Contents

sha256

The SHA-256 hash value.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdMappingConfig

The configuration settings for the ID mapping table.

Contents

allowUseAsDimensionColumn

An indicator as to whether you can use your column as a dimension column in the ID mapping table (TRUE) or not (FALSE).

Default is FALSE.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdMappingTable

Describes information about the ID mapping table.

Contents

arn

The Amazon Resource Name (ARN) of the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idmappingtable/[\d\w-]+`

Required: Yes

collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that contains this ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the ID mapping table was created.

Type: Timestamp

Required: Yes

id

The unique identifier of the ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

inputReferenceConfig

The input reference configuration for the ID mapping table.

Type: IdMappingTableInputReferenceConfig object

Required: Yes

inputReferenceProperties

The input reference properties for the ID mapping table.

Type: IdMappingTableInputReferenceProperties object

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the membership resource for the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The unique identifier of the membership resource for the ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

updateTime

The most recent time at which the ID mapping table was updated.

Type: Timestamp

Required: Yes

childResources

The child resources that depend on this ID mapping table.

Type: Array of ChildResource objects

Required: No

description

The description of the ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws:kms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:key/[a-zA-Z0-9-]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdMappingTableInputReferenceConfig

Provides the input reference configuration for the ID mapping table.

Contents

inputReferenceArn

The Amazon Resource Name (ARN) of the referenced resource in AWS Entity Resolution. Valid values are ID mapping workflow ARNs.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:(aws|aws-us-gov|aws-cn):entityresolution:.*:[0-9]+:(idmappingworkflow/.*)`

Required: Yes

manageResourcePolicies

When TRUE, AWS Clean Rooms manages permissions for the ID mapping table resource.

When FALSE, the resource owner manages permissions for the ID mapping table resource.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdMappingTableInputReferenceProperties

The input reference properties for the ID mapping table.

Contents

idMappingTableInputSource

The input source of the ID mapping table.

Type: Array of IdMappingTableInputSource objects

Array Members: Fixed number of 2 items.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdMappingTableInputSource

The input source of the ID mapping table.

Contents

idNamespaceAssociationId

The unique identifier of the ID namespace association.

Type: String

Required: Yes

type

The type of the input source of the ID mapping table.

Type: String

Valid Values: `SOURCE | TARGET`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdMappingTableSchemaTypeProperties

Additional properties that are specific to the type of the associated schema.

Contents

idMappingTableInputSource

Defines which ID namespace associations are used to create the ID mapping table.

Type: Array of IdMappingTableInputSource objects

Array Members: Fixed number of 2 items.

Required: Yes

idMappingTableId

The unique identifier of the ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdMappingTableSummary

Detailed information about the ID mapping table.

Contents

arn

The Amazon Resource Name (ARN) of this ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idmappingtable/[\d\w-]+`

Required: Yes

collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that contains this ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which this ID mapping table was created.

Type: Timestamp

Required: Yes

id

The unique identifier of this ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

inputReferenceConfig

The input reference configuration for the ID mapping table.

Type: IdMappingTableInputReferenceConfig object

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the membership resource for this ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The unique identifier of the membership resource for this ID mapping table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of this ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

updateTime

The most recent time at which this ID mapping table was updated.

Type: Timestamp

Required: Yes

description

The description of this ID mapping table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdNamespaceAssociation

Provides information to create the ID namespace association.

Contents

arn

The Amazon Resource Name (ARN) of the ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idnamespaceassociation/[\d\w-]+`

Required: Yes

collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that contains this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the ID namespace association was created.

Type: Timestamp

Required: Yes

id

The unique identifier for this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

inputReferenceConfig

The input reference configuration for the ID namespace association.

Type: IdNamespaceAssociationInputReferenceConfig object

Required: Yes

inputReferenceProperties

The input reference properties for the ID namespace association.

Type: IdNamespaceAssociationInputReferenceProperties object

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the membership resource for this ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The unique identifier of the membership resource for this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of this ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The most recent time at which the ID namespace association was updated.

Type: Timestamp

Required: Yes

description

The description of the ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

idMappingConfig

The configuration settings for the ID mapping table.

Type: IdMappingConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdNamespaceAssociationInputReferenceConfig

Provides the information for the ID namespace association input reference configuration.

Contents

inputReferenceArn

The Amazon Resource Name (ARN) of the AWS Entity Resolution resource that is being associated to the collaboration. Valid resource ARNs are from the ID namespaces that you own.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:entityresolution:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:idnamespace/[\d\w-]+`

Required: Yes

manageResourcePolicies

When TRUE, AWS Clean Rooms manages permissions for the ID namespace association resource.

When FALSE, the resource owner manages permissions for the ID namespace association resource.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdNamespaceAssociationInputReferenceProperties

Provides the information for the ID namespace association input reference properties.

Contents

idMappingWorkflowsSupported

Defines how ID mapping workflows are supported for this ID namespace association.

Type: Array of JSON values

Required: Yes

idNamespaceType

The ID namespace type for this ID namespace association.

Type: String

Valid Values: `SOURCE | TARGET`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdNamespaceAssociationInputReferencePropertiesSummary

Detailed information about the ID namespace association input reference properties.

Contents

idNamespaceType

The ID namespace type for this ID namespace association.

Type: String

Valid Values: `SOURCE | TARGET`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IdNamespaceAssociationSummary

Detailed information about the ID namespace association.

Contents

arn

The Amazon Resource Name (ARN) of this ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/idnamespaceassociation/[\d\w-]+`

Required: Yes

collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that contains this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which this ID namespace association was created.

Type: Timestamp

Required: Yes

id

The unique identifier of this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

inputReferenceConfig

The input reference configuration details for this ID namespace association.

Type: IdNamespaceAssociationInputReferenceConfig object

Required: Yes

inputReferenceProperties

The input reference properties for this ID namespace association.

Type: IdNamespaceAssociationInputReferencePropertiesSummary object

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the membership resource for this ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The unique identifier of the membership resource for this ID namespace association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the ID namespace association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

updateTime

The most recent time at which this ID namespace association has been updated.

Type: Timestamp

Required: Yes

description

The description of the ID namespace association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InheritedAdditionalAnalyses

Contains the inherited additional analyses constraint and its sources from parent tables.

Contents

sources

The list of parent tables that contribute to this inherited constraint.

Type: Array of InheritedAdditionalAnalysesSource objects

Required: Yes

value

The effective additional analyses setting inherited from parent tables.

Type: String

Valid Values: `ALLOWED | REQUIRED | NOT_ALLOWED`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InheritedAdditionalAnalysesSource

Contains information about a parent table that contributes an additional analyses constraint.

Contents

id

The unique identifier of the parent table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the parent table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

sourceAccountId

The AWS account ID of the member who owns the parent table.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

type

The type of the parent table.

Type: String

Valid Values: `TABLE | INTERMEDIATE_TABLE | ID_MAPPING_TABLE`

Required: Yes

value

The additional analyses setting defined on the parent table.

Type: String

Valid Values: `ALLOWED | REQUIRED | NOT_ALLOWED`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InheritedAllowedAdditionalAnalyses

Contains the inherited allowed additional analyses constraint and its sources from parent tables.

Contents

sources

The list of parent tables that contribute to this inherited constraint.

Type: Array of InheritedAllowedAdditionalAnalysesSource objects

Required: Yes

value

The effective list of allowed additional analyses inherited from parent tables.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\/[\*\d\w-]+\/configuredaudiencemodelassociation\/[\*\d\w-]+$|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\/[\*\d\w-]+\/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+|\*)`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InheritedAllowedAdditionalAnalysesSource

Contains information about a parent table that contributes an allowed additional analyses constraint.

Contents

id

The unique identifier of the parent table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the parent table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

sourceAccountId

The AWS account ID of the member who owns the parent table.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

type

The type of the parent table.

Type: String

Valid Values: `TABLE | INTERMEDIATE_TABLE | ID_MAPPING_TABLE`

Required: Yes

value

The allowed additional analyses defined on the parent table.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\/[\*\d\w-]+\/configuredaudiencemodelassociation\/[\*\d\w-]+$|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\/[\*\d\w-]+\/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+|\*)`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InheritedAllowedResultReceivers

Contains the inherited allowed result receivers constraint and its sources from parent tables.

Contents

sources

The list of parent tables that contribute to this inherited constraint.

Type: Array of InheritedAllowedResultReceiversSource objects

Required: Yes

value

The effective list of AWS account IDs allowed to receive results, inherited from parent tables.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InheritedAllowedResultReceiversSource

Contains information about a parent table that contributes an allowed result receivers constraint.

Contents

id

The unique identifier of the parent table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the parent table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

sourceAccountId

The AWS account ID of the member who owns the parent table.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

type

The type of the parent table.

Type: String

Valid Values: `TABLE | INTERMEDIATE_TABLE | ID_MAPPING_TABLE`

Required: Yes

value

The allowed result receiver account IDs defined on the parent table.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InheritedDisallowedOutputColumns

Contains the inherited disallowed output columns constraint and the column lineage tracing each column to its source.

Contents

columnLineage

The lineage information that traces each disallowed output column back to its source in a parent table.

Type: Array of ColumnLineageEntry objects

Required: Yes

value

The list of column names that are disallowed from appearing in query output, inherited from parent tables.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTable

Contains the details of an intermediate table in AWS Clean Rooms. An intermediate table stores a query definition and its materialized results within a collaboration.

Contents

arn

The Amazon Resource Name (ARN) of the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership\/[\d\w-]+\/intermediatetable\/[\d\w-]+`

Required: Yes

collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that contains the intermediate table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time the intermediate table was created.

Type: Timestamp

Required: Yes

id

The unique identifier of the intermediate table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the membership that contains the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The unique identifier of the membership that contains the intermediate table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the intermediate table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

populationAnalysisConfiguration

The analysis configuration that defines the query used to populate the intermediate table.

Type: PopulationAnalysisConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

status

The current status of the intermediate table.

Type: String

Valid Values: `CREATED | POPULATE_STARTED | POPULATE_SUCCESS | POPULATE_FAILED | DISALLOWED_BY_DATA_PROVIDER | BASE_TABLE_REMOVED | RETENTION_PERIOD_EXPIRED`

Required: Yes

updateTime

The time the intermediate table was last updated.

Type: Timestamp

Required: Yes

analysisRuleTypes

The types of analysis rules associated with the intermediate table.

Type: Array of strings

Valid Values: `CUSTOM`

Required: No

childResources

The child resources that depend on this intermediate table.

Type: Array of ChildResource objects

Required: No

description

The description of the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

intermediateTableVersion

The details of the currently active version of the intermediate table.

Type: IntermediateTableActiveVersion object

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key used to encrypt the intermediate table data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws:kms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:key/[a-zA-Z0-9-]+`

Required: No

retentionInDays

The number of days that populated data is retained before expiring.

Type: Integer

Required: No

schema

The schema of the intermediate table, containing column definitions. Available after the table has been successfully populated.

Type: IntermediateTableSchema object

Required: No

statusReason

The reason for the current status of the intermediate table.

Type: String

Required: No

tableDependencies

The list of base tables that this intermediate table depends on.

Type: Array of IntermediateTableDependency objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableActiveVersion

Contains the details of the currently active version of an intermediate table.

Contents

analysisId

The identifier of the protected query that created this version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

analysisType

The type of analysis that created this version.

Type: String

Valid Values: `QUERY`

Required: Yes

inheritedConstraints

The privacy constraints inherited from parent tables at the time this version was populated.

Type: IntermediateTableInheritedConstraints object

Required: Yes

versionId

The unique identifier of the active version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

expirationTime

The time when this version expires based on the retention period.

Type: Timestamp

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key used to encrypt this version's data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws:kms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:key/[a-zA-Z0-9-]+`

Required: No

parameters

The runtime parameters that were used when populating this version.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[0-9a-zA-Z_]+`

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableAnalysisRule

Contains the details of an analysis rule for an intermediate table.

Contents

analysisRulePolicy

The policy of the analysis rule.

Type: IntermediateTableAnalysisRulePolicy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

analysisRuleType

The type of the analysis rule.

Type: String

Valid Values: `CUSTOM`

Required: Yes

createTime

The time the analysis rule was created.

Type: Timestamp

Required: Yes

intermediateTableArn

The Amazon Resource Name (ARN) of the intermediate table associated with this analysis rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership\/[\d\w-]+\/intermediatetable\/[\d\w-]+`

Required: Yes

intermediateTableIdentifier

The unique identifier of the intermediate table associated with this analysis rule.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

updateTime

The time the analysis rule was last updated.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableAnalysisRuleCustom

Contains the custom analysis rule configuration for an intermediate table.

Contents

additionalAnalyses

The setting that controls whether additional analyses are allowed on the intermediate table.

Type: String

Valid Values: `ALLOWED | REQUIRED | NOT_ALLOWED`

Required: No

aggregationThresholds

The aggregation thresholds that each query output group must satisfy. AWS Clean Rooms filters out any group that represents fewer than the specified number of distinct identities. You can specify at most one threshold. You can't use aggregation thresholds with differential privacy, or when `allowedAnalyses` allows only jobs.

Type: Array of AggregationThreshold objects

Array Members: Fixed number of 1 item.

Required: No

allowedAdditionalAnalyses

The list of allowed additional analyses for the intermediate table.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:([\d]{12}|\*):membership\/[\*\d\w-]+\/configuredaudiencemodelassociation\/[\*\d\w-]+$|^arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:([0-9]{12}|\*):membership\/[\*\d\w-]+\/configured-model-algorithm-association\/([-a-zA-Z0-9_\/.]+|\*)`

Required: No

allowedAnalyses

The list of allowed analyses that can be performed on the intermediate table.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `(ANY_QUERY|ANY_JOB|arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+)`

Required: No

allowedAnalysisProviders

The list of AWS account IDs for the allowed analysis providers.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

allowedResultReceivers

The list of AWS account IDs that are allowed to receive results from queries run on the intermediate table.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

comparisonControls

The controls that restrict how a query can compare the columns in the intermediate table. You can't use comparison controls with differential privacy, or when `allowedAnalyses` allows only jobs.

Type: ComparisonControls object

Required: No

differentialPrivacy

Specifies the unique identifier for your users.

Type: DifferentialPrivacyConfiguration object

Required: No

disallowedOutputColumns

The list of columns that are not allowed in the query output.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableAnalysisRulePolicy

Contains the policy for an intermediate table analysis rule.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

v1

The version 1 policy for the analysis rule.

Type: IntermediateTableAnalysisRulePolicyV1 object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableAnalysisRulePolicyV1

Contains the version 1 policy for an intermediate table analysis rule.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

custom

The custom analysis rule policy.

Type: IntermediateTableAnalysisRuleCustom object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableColumn

Contains the name and type of a column in an intermediate table.

Contents

name

The name of the column.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

type

The data type of the column.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableComputeConfiguration

Contains the compute configuration for an intermediate table population operation.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

queryComputeConfiguration

The configuration of the compute resources for workers running an analysis with the AWS Clean Rooms SQL analytics engine.

Type: WorkerComputeConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableDependency

Contains information about a base table that an intermediate table depends on.

Contents

creatorAccountId

The AWS account ID of the member who owns the dependency table.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

id

The unique identifier of the dependency table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the dependency table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

parentType

The type of dependency, either direct or indirect. A direct dependency is a table explicitly referenced in the stored query. An indirect dependency is a table referenced through another intermediate table.

Type: String

Valid Values: `DIRECT | INDIRECT`

Required: Yes

type

The type of the dependency table.

Type: String

Valid Values: `TABLE | INTERMEDIATE_TABLE | ID_MAPPING_TABLE`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableInheritedConstraints

Contains the privacy constraints inherited from parent tables for an intermediate table version.

Contents

additionalAnalyses

The inherited additional analyses constraint.

Type: InheritedAdditionalAnalyses object

Required: No

allowedAdditionalAnalyses

The inherited allowed additional analyses constraint.

Type: InheritedAllowedAdditionalAnalyses object

Required: No

allowedResultReceivers

The inherited allowed result receivers constraint.

Type: InheritedAllowedResultReceivers object

Required: No

disallowedOutputColumns

The inherited disallowed output columns constraint.

Type: InheritedDisallowedOutputColumns object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableOutputConfiguration

Contains the output configuration of an intermediate table when a protected query populates it.

Contents

arn

The Amazon Resource Name (ARN) of the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership\/[\d\w-]+\/intermediatetable\/[\d\w-]+`

Required: Yes

id

The unique identifier of the intermediate table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the intermediate table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableSchema

Contains the schema definition of an intermediate table.

Contents

columns

The list of columns in the intermediate table schema.

Type: Array of Column objects

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableSchemaTypeProperties

Contains the schema type properties for an intermediate table.

Contents

intermediateTableId

The unique identifier of the intermediate table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableSummary

Contains summary information about an intermediate table.

Contents

arn

The Amazon Resource Name (ARN) of the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership\/[\d\w-]+\/intermediatetable\/[\d\w-]+`

Required: Yes

collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that contains the intermediate table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time the intermediate table was created.

Type: Timestamp

Required: Yes

id

The unique identifier of the intermediate table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the membership that contains the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The unique identifier of the membership that contains the intermediate table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

name

The name of the intermediate table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

status

The current status of the intermediate table.

Type: String

Valid Values: `CREATED | POPULATE_STARTED | POPULATE_SUCCESS | POPULATE_FAILED | DISALLOWED_BY_DATA_PROVIDER | BASE_TABLE_REMOVED | RETENTION_PERIOD_EXPIRED`

Required: Yes

updateTime

The time the intermediate table was last updated.

Type: Timestamp

Required: Yes

analysisRuleTypes

The types of analysis rules associated with the intermediate table.

Type: Array of strings

Valid Values: `CUSTOM`

Required: No

description

The description of the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

retentionInDays

The number of days that populated data is retained before expiring.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntermediateTableVersionSummary

Contains summary information about a version of an intermediate table.

Contents

analysisId

The identifier of the protected query that created this version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

analysisType

The type of analysis that created this version.

Type: String

Valid Values: `QUERY`

Required: Yes

createTime

The time the version was created.

Type: Timestamp

Required: Yes

status

The status of the version.

Type: String

Valid Values: `POPULATE_STARTED | POPULATE_SUCCESS | POPULATE_FAILED | RETENTION_PERIOD_EXPIRED`

Required: Yes

tableId

The unique identifier of the intermediate table that this version belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

versionId

The unique identifier of the version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

expirationTime

The time when this version expires based on the retention period.

Type: Timestamp

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key used to encrypt this version's data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws:kms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:key/[a-zA-Z0-9-]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JobComputePaymentConfig

An object representing the collaboration member's payment responsibilities set by the collaboration creator for query and job compute costs.

Contents

isResponsible

Indicates whether the collaboration creator has configured the collaboration member to pay for query and job compute costs (TRUE) or has not configured the collaboration member to pay for query and job compute costs (FALSE).

One or more members can be configured as payer candidates for query and job compute costs.

An error is returned if the collaboration creator sets a FALSE value for the member who can run queries and jobs.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MemberChangeSpecification

Specifies changes to collaboration membership, including adding new members with their abilities and display names.

Contents

accountId

The AWS account ID of the member to add to the collaboration.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

memberAbilities

The abilities granted to the collaboration member. These determine what actions the member can perform within the collaboration.

> **Note**
>
> The following values are currently not supported: `CAN_QUERY` and `CAN_RUN_JOB`.
> Set the value of `memberAbilities` to `[]` to allow a member to contribute data.
> Set the value of `memberAbilities` to `[CAN_RECEIVE_RESULTS]` to allow a member to contribute data and receive results.
> Set the value of `memberAbilities` to `[CAN_EXPORT_QUERY_ANALYSIS_LOG]` so that the member can export the analysis logs for a protected query. Having this ability isn't sufficient on its own: You can export logs only for queries that you ran or paid for.

Type: Array of strings

Valid Values: `CAN_QUERY | CAN_RECEIVE_RESULTS | CAN_RUN_JOB | CAN_EXPORT_QUERY_ANALYSIS_LOG`

Required: Yes

displayName

Specifies the display name that will be shown for this member in the collaboration. While this field is required when inviting new members, it becomes optional when modifying abilities of existing collaboration members.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: No

mlMemberAbilities

The ML member abilities for a collaboration member.

Type: MLMemberAbilities object

Required: No

paymentConfiguration

An object representing the collaboration member's payment responsibilities set by the collaboration creator.

Type: PaymentConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Membership

The membership object.

Contents

arn

The unique ARN for the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

collaborationArn

The unique ARN for the membership's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationCreatorAccountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

collaborationCreatorDisplayName

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

collaborationId

The unique ID for the membership's collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

collaborationName

The name of the membership's collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

createTime

The time when the membership was created.

Type: Timestamp

Required: Yes

id

The unique ID of the membership.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

memberAbilities

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: `CAN_QUERY | CAN_RECEIVE_RESULTS | CAN_RUN_JOB | CAN_EXPORT_QUERY_ANALYSIS_LOG`

Required: Yes

paymentConfiguration

The payment responsibilities accepted by the collaboration member.

Type: MembershipPaymentConfiguration object

Required: Yes

queryLogStatus

An indicator as to whether query logging has been enabled or disabled for the membership.

When `ENABLED`, AWS Clean Rooms logs details about queries run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: Yes

status

The status of the membership.

Type: String

Valid Values: `ACTIVE | REMOVED | COLLABORATION_DELETED`

Required: Yes

updateTime

The time the membership metadata was last updated.

Type: Timestamp

Required: Yes

defaultJobResultConfiguration

The default job result configuration for the membership.

Type: MembershipProtectedJobResultConfiguration object

Required: No

defaultResultConfiguration

The default protected query result configuration as specified by the member who can receive results.

Type: MembershipProtectedQueryResultConfiguration object

Required: No

isMetricsEnabled

An indicator as to whether Amazon CloudWatch metrics are enabled for the membership.

When `true`, metrics about query execution are collected in Amazon CloudWatch.

Type: Boolean

Required: No

jobLogStatus

An indicator as to whether job logging has been enabled or disabled for the collaboration.

When `ENABLED`, AWS Clean Rooms logs details about jobs run within this collaboration and those logs can be viewed in Amazon CloudWatch Logs. The default value is `DISABLED`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

mlMemberAbilities

Specifies the ML member abilities that are granted to a collaboration member.

Type: MLMemberAbilities object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipJobComputePaymentConfig

An object representing the payment responsibilities accepted by the collaboration member for query and job compute costs.

Contents

isResponsible

Indicates whether the collaboration member has accepted to pay for job compute costs (TRUE) or has not accepted to pay for query and job compute costs (FALSE).

There can be one or more members who are designated as payer candidates for queries and jobs.

An error message is returned for the following reasons:

- If you set the value to FALSE but you are responsible to pay for query and job compute costs.
- If you set the value to TRUE but you are not responsible to pay for query and job compute costs.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipMLPaymentConfig

An object representing the collaboration member's machine learning payment responsibilities set by the collaboration creator.

Contents

modelInference

The payment responsibilities accepted by the member for model inference.

Type: MembershipModelInferencePaymentConfig object

Required: No

modelTraining

The payment responsibilities accepted by the member for model training.

Type: MembershipModelTrainingPaymentConfig object

Required: No

syntheticDataGeneration

The payment configuration for synthetic data generation for this machine learning membership.

Type: MembershipSyntheticDataGenerationPaymentConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipModelInferencePaymentConfig

An object representing the collaboration member's model inference payment responsibilities set by the collaboration creator.

Contents

isResponsible

Indicates whether the collaboration member has accepted to pay for model inference costs (TRUE) or has not accepted to pay for model inference costs (FALSE).

If the collaboration creator has not specified anyone to pay for model inference costs, then the member who can query is the default payer.

An error message is returned for the following reasons:

- If you set the value to FALSE but you are responsible to pay for model inference costs.
- If you set the value to TRUE but you are not responsible to pay for model inference costs.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipModelTrainingPaymentConfig

An object representing the collaboration member's model training payment responsibilities set by the collaboration creator.

Contents

isResponsible

Indicates whether the collaboration member has accepted to pay for model training costs (TRUE) or has not accepted to pay for model training costs (FALSE).

If the collaboration creator has not specified anyone to pay for model training costs, then the member who can query is the default payer.

An error message is returned for the following reasons:

- If you set the value to FALSE but you are responsible to pay for model training costs.
- If you set the value to TRUE but you are not responsible to pay for model training costs.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipPaymentConfiguration

An object representing the payment responsibilities accepted by the collaboration member.

Contents

queryCompute

The payment responsibilities accepted by the collaboration member for query compute costs.

Type: MembershipQueryComputePaymentConfig object

Required: Yes

jobCompute

The payment responsibilities accepted by the collaboration member for job compute costs.

Type: MembershipJobComputePaymentConfig object

Required: No

machineLearning

The payment responsibilities accepted by the collaboration member for machine learning costs.

Type: MembershipMLPaymentConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipProtectedJobOutputConfiguration

Contains configurations for protected job results.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

s3

Contains the configuration to write the job results to S3.

Type: ProtectedJobS3OutputConfigurationInput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipProtectedJobResultConfiguration

Contains configurations for protected job results.

Contents

outputConfiguration

The output configuration for a protected job result.

Type: MembershipProtectedJobOutputConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

roleArn

The unique ARN for an IAM role that is used by AWS Clean Rooms to write protected job results to the result location, given by the member who can receive results.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@-]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipProtectedQueryOutputConfiguration

Contains configurations for protected query results.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

s3

Contains the configuration to write the query results to S3.

Type: ProtectedQueryS3OutputConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipProtectedQueryResultConfiguration

Contains configurations for protected query results.

Contents

outputConfiguration

Configuration for protected query results.

Type: MembershipProtectedQueryOutputConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

roleArn

The unique ARN for an IAM role that is used by AWS Clean Rooms to write protected query results to the result location, given by the member who can receive results.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@-]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipQueryComputePaymentConfig

An object representing the payment responsibilities accepted by the collaboration member for query compute costs.

Contents

isResponsible

Indicates whether the collaboration member has accepted to pay for query compute costs (TRUE) or has not accepted to pay for query compute costs (FALSE).

If the collaboration creator has not specified anyone to pay for query compute costs, then the member who can query is the default payer.

An error message is returned for the following reasons:

- If you set the value to FALSE but you are responsible to pay for query compute costs.
- If you set the value to TRUE but you are not responsible to pay for query compute costs.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipSummary

The membership object listed by the request.

Contents

arn

The unique ARN for the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

collaborationArn

The unique ARN for the membership's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationCreatorAccountId

The identifier of the AWS principal that created the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

collaborationCreatorDisplayName

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

collaborationId

The unique ID for the membership's collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

collaborationName

The name for the membership's collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

createTime

The time when the membership was created.

Type: Timestamp

Required: Yes

id

The unique ID for the membership's collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

memberAbilities

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: `CAN_QUERY | CAN_RECEIVE_RESULTS | CAN_RUN_JOB | CAN_EXPORT_QUERY_ANALYSIS_LOG`

Required: Yes

paymentConfiguration

The payment responsibilities accepted by the collaboration member.

Type: MembershipPaymentConfiguration object

Required: Yes

status

The status of the membership.

Type: String

Valid Values: `ACTIVE | REMOVED | COLLABORATION_DELETED`

Required: Yes

updateTime

The time the membership metadata was last updated.

Type: Timestamp

Required: Yes

mlMemberAbilities

Provides a summary of the ML abilities for the collaboration member.

Type: MLMemberAbilities object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MembershipSyntheticDataGenerationPaymentConfig

Configuration for payment for synthetic data generation in a membership.

Contents

isResponsible

Indicates if this membership is responsible for paying for synthetic data generation.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MemberSpecification

Basic metadata used to construct a new member.

Contents

accountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

displayName

The member's display name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

memberAbilities

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: `CAN_QUERY | CAN_RECEIVE_RESULTS | CAN_RUN_JOB | CAN_EXPORT_QUERY_ANALYSIS_LOG`

Required: Yes

mlMemberAbilities

The ML abilities granted to the collaboration member.

Type: MLMemberAbilities object

Required: No

paymentConfiguration

The collaboration member's payment responsibilities set by the collaboration creator.

If the collaboration creator hasn't specified anyone as the member paying for query compute costs, then the member who can query is the default payer.

Type: PaymentConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MemberSummary

The member object listed by the request.

Contents

abilities

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: `CAN_QUERY | CAN_RECEIVE_RESULTS | CAN_RUN_JOB | CAN_EXPORT_QUERY_ANALYSIS_LOG`

Required: Yes

accountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

createTime

The time when the member was created.

Type: Timestamp

Required: Yes

displayName

The member's display name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

paymentConfiguration

The collaboration member's payment responsibilities set by the collaboration creator.

Type: PaymentConfiguration object

Required: Yes

status

The status of the member.

Type: String

Valid Values: `INVITED | ACTIVE | LEFT | REMOVED`

Required: Yes

updateTime

The time the member metadata was last updated.

Type: Timestamp

Required: Yes

membershipArn

The unique ARN for the member's associated membership, if present.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: No

membershipId

The unique ID for the member's associated membership, if present.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

mlAbilities

Provides a summary of the ML abilities for the collaboration member.

Type: MLMemberAbilities object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MLMemberAbilities

The ML member abilities for a collaboration member.

Contents

customMLMemberAbilities

The custom ML member abilities for a collaboration member.

Type: Array of strings

Valid Values: `CAN_RECEIVE_MODEL_OUTPUT | CAN_RECEIVE_INFERENCE_OUTPUT`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MLPaymentConfig

An object representing the collaboration member's machine learning payment responsibilities set by the collaboration creator.

Contents

modelInference

The payment responsibilities accepted by the member for model inference.

Type: ModelInferencePaymentConfig object

Required: No

modelTraining

The payment responsibilities accepted by the member for model training.

Type: ModelTrainingPaymentConfig object

Required: No

syntheticDataGeneration

The payment configuration for machine learning synthetic data generation.

Type: SyntheticDataGenerationPaymentConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MLSyntheticDataParameters

Parameters that control the generation of synthetic data for machine learning, including privacy settings and column classification details.

Contents

columnClassification

Classification details for data columns that specify how each column should be treated during synthetic data generation.

Type: ColumnClassificationDetails object

Required: Yes

epsilon

The epsilon value for differential privacy when generating synthetic data. Lower values provide stronger privacy guarantees but may reduce data utility.

Type: Double

Valid Range: Minimum value of 0.0001. Maximum value of 10.

Required: Yes

maxMembershipInferenceAttackScore

The maximum acceptable score for membership inference attack vulnerability. Synthetic data generation fails if the score for the resulting data exceeds this threshold.

Type: Double

Valid Range: Minimum value of 0.5. Maximum value of 1.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ModelInferencePaymentConfig

An object representing the collaboration member's model inference payment responsibilities set by the collaboration creator.

Contents

isResponsible

Indicates whether the collaboration creator has configured the collaboration member to pay for model inference costs (TRUE) or has not configured the collaboration member to pay for model inference costs (FALSE).

One or more members can be configured as payer candidates for model inference costs.

If the collaboration creator hasn't specified anyone as the member paying for model inference costs, then the member who can query is the default payer.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ModelTrainingPaymentConfig

An object representing the collaboration member's model training payment responsibilities set by the collaboration creator.

Contents

isResponsible

Indicates whether the collaboration creator has configured the collaboration member to pay for model training costs (TRUE) or has not configured the collaboration member to pay for model training costs (FALSE).

One or more members can be configured as payer candidates for model training costs.

If the collaboration creator hasn't specified anyone as the member paying for model training costs, then the member who can query is the default payer.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OutputColumnThreshold

Specifies the minimum number of distinct identities for an individual output column. This value overrides the table-wide `minimumIdentityCount` that you set in `AggregationThreshold`.

Contents

minimumIdentityCount

The minimum number of distinct identities that each query output group must represent for this column. Specify 0 to exempt the column from the threshold, or a value of 2 or greater to enforce a threshold.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: Yes

outputColumnName

The name of the output column that the override applies to. You can specify each column only once.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PaymentConfiguration

An object representing the collaboration member's payment responsibilities set by the collaboration creator.

Contents

queryCompute

The collaboration member's payment responsibilities set by the collaboration creator for query compute costs.

Type: QueryComputePaymentConfig object

Required: Yes

jobCompute

The compute configuration for the job.

Type: JobComputePaymentConfig object

Required: No

machineLearning

An object representing the collaboration member's machine learning payment responsibilities set by the collaboration creator.

Type: MLPaymentConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PopulationAnalysisConfiguration

Contains the configuration that defines the analysis used to populate an intermediate table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

sqlParameters

The SQL parameters for the population analysis, including the query string or analysis template ARN.

Type: PopulationAnalysisSqlParameters object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PopulationAnalysisSqlParameters

Contains the SQL parameters used to populate an intermediate table.

Contents

analysisTemplateArn

The Amazon Resource Name (ARN) of the analysis template to use for populating the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: No

queryString

The SQL query string used to populate the intermediate table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PreviewPrivacyImpactParametersInput

Specifies the updated epsilon and noise parameters to preview. The preview allows you to see how the maximum number of each type of aggregation function would change with the new parameters.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

differentialPrivacy

An array that specifies the epsilon and noise parameters.

Type: DifferentialPrivacyPreviewParametersInput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivacyBudget

The epsilon parameter value and number of each aggregation function that you can perform.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

accessBudget

Access budget information associated with this privacy budget.

Type: AccessBudget object

Required: No

differentialPrivacy

An object that specifies the epsilon parameter and the utility in terms of total aggregations, as well as the remaining aggregations available.

Type: DifferentialPrivacyPrivacyBudget object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivacyBudgetSummary

An array that summaries the specified privacy budget. This summary includes collaboration information, creation information, membership information, and privacy budget information.

Contents

budget

The provided privacy budget.

Type: PrivacyBudget object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

collaborationArn

The ARN of the collaboration that contains this privacy budget.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique identifier of the collaboration that contains this privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the privacy budget was created.

Type: Timestamp

Required: Yes

id

The unique identifier of the privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the member who created the privacy budget summary.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

privacyBudgetTemplateArn

The ARN of the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

privacyBudgetTemplateId

The unique identifier of the privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

type

Specifies the type of the privacy budget.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY | ACCESS_BUDGET`

Required: Yes

updateTime

The most recent time at which the privacy budget was updated.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivacyBudgetTemplate

An object that defines the privacy budget template.

Contents

arn

The ARN of the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

autoRefresh

How often the privacy budget refreshes.

> **Important**
>
> If you plan to regularly bring new data into the collaboration, use `CALENDAR_MONTH` to automatically get a new privacy budget for the collaboration every calendar month. Choosing this option allows arbitrary amounts of information to be revealed about rows of the data when repeatedly queried across refreshes. Avoid choosing this if the same rows will be repeatedly queried between privacy budget refreshes.

Type: String

Valid Values: `CALENDAR_MONTH | NONE`

Required: Yes

collaborationArn

The ARN of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique ID of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the privacy budget template was created.

Type: Timestamp

Required: Yes

id

The unique identifier of the privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the member who created the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

parameters

Specifies the epsilon and noise parameters for the privacy budget template.

Type: PrivacyBudgetTemplateParametersOutput object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

privacyBudgetType

Specifies the type of the privacy budget template.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY | ACCESS_BUDGET`

Required: Yes

updateTime

The most recent time at which the privacy budget template was updated.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivacyBudgetTemplateParametersInput

The epsilon and noise parameters that you want to use for the privacy budget template.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

accessBudget

Access budget configuration for the privacy budget template input, enabling integration with access budget functionality.

Type: AccessBudgetsPrivacyTemplateParametersInput object

Required: No

differentialPrivacy

An object that specifies the epsilon and noise parameters.

Type: DifferentialPrivacyTemplateParametersInput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivacyBudgetTemplateParametersOutput

The epsilon and noise parameters that were used in the privacy budget template.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

accessBudget

Access budget configuration returned from the privacy budget template, containing the configured access budget settings.

Type: AccessBudgetsPrivacyTemplateParametersOutput object

Required: No

differentialPrivacy

The epsilon and noise parameters.

Type: DifferentialPrivacyTemplateParametersOutput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivacyBudgetTemplateSummary

A summary of the privacy budget template. The summary includes membership information, collaboration information, and creation information.

Contents

arn

The ARN of the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

collaborationArn

The ARN of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique ID of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time at which the privacy budget template was created.

Type: Timestamp

Required: Yes

id

The unique identifier of the privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The Amazon Resource Name (ARN) of the member who created the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

privacyBudgetType

The type of the privacy budget template.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY | ACCESS_BUDGET`

Required: Yes

updateTime

The most recent time at which the privacy budget template was updated.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivacyBudgetTemplateUpdateParameters

The epsilon and noise parameters that you want to update in the privacy budget template.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

accessBudget

The new access budget configuration that completely replaces the existing access budget settings in the privacy budget template.

Type: AccessBudgetsPrivacyTemplateUpdateParameters object

Required: No

differentialPrivacy

An object that specifies the new values for the epsilon and noise parameters.

Type: DifferentialPrivacyTemplateUpdateParameters object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivacyImpact

Provides an estimate of the number of aggregation functions that the member who can query can run given the epsilon and noise parameters.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

differentialPrivacy

An object that lists the number and type of aggregation functions you can perform.

Type: DifferentialPrivacyPrivacyImpact object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJob

The parameters for an AWS Clean Rooms protected job.

Contents

createTime

The creation time of the protected job.

Type: Timestamp

Required: Yes

id

The identifier for a protected job instance.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The ARN of the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

he identifier for the membership.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

status

The status of the protected job.

Type: String

Valid Values: `SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS`

Required: Yes

computeConfiguration

The compute configuration for the protected job.

Type: ProtectedJobComputeConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

error

The error from the protected job.

Type: ProtectedJobError object

Required: No

jobComputePayerAccountId

The account ID of the member that pays for the job compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

jobParameters

The job parameters for the protected job.

Type: ProtectedJobParameters object

Required: No

result

The result of the protected job.

Type: ProtectedJobResult object

Required: No

resultConfiguration

Contains any details needed to write the job results.

Type: ProtectedJobResultConfigurationOutput object

Required: No

statistics

The statistics of the protected job.

Type: ProtectedJobStatistics object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobComputeConfiguration

The configuration of the compute resources for a PySpark job.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

worker

The worker configuration for the compute environment.

Type: ProtectedJobWorkerComputeConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobConfigurationDetails

The protected job configuration details.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

directAnalysisConfigurationDetails

The details needed to configure the direct analysis.

Type: ProtectedJobDirectAnalysisConfigurationDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobDirectAnalysisConfigurationDetails

The protected job direct analysis configuration details.

Contents

receiverAccountIds

The receiver account IDs.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobError

The protected job error.

Contents

code

The error code for the protected job.

Type: String

Required: Yes

message

The message for the protected job error.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobMemberOutputConfigurationInput

The protected job member output configuration input.

Contents

accountId

The account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobMemberOutputConfigurationOutput

The protected job member output configuration output.

Contents

accountId

The account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobOutput

Contains details about the protected job output.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

memberList

The list of member AWS account(s) that received the results of the job.

Type: Array of ProtectedJobSingleMemberOutput objects

Required: No

s3

If present, the output for a protected job with an `S3` output type.

Type: ProtectedJobS3Output object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobOutputConfigurationInput

The protected job output configuration input.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

member

The member of the protected job output configuration input.

Type: ProtectedJobMemberOutputConfigurationInput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobOutputConfigurationOutput

The protected job output configuration output.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

member

The member output configuration for a protected job.

Type: ProtectedJobMemberOutputConfigurationOutput object

Required: No

s3

If present, the output for a protected job with an `S3` output type.

Type: ProtectedJobS3OutputConfigurationOutput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobParameters

The parameters for the protected job.

Contents

analysisTemplateArn

The ARN of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

parameters

Runtime configuration values passed to the PySpark analysis script. Parameter names and types must match those defined in the analysis template.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[0-9a-zA-Z_]+`

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

ProtectedJobReceiverConfiguration

The protected job receiver configuration.

Contents

analysisType

The analysis type for the protected job receiver configuration.

Type: String

Valid Values: `DIRECT_ANALYSIS`

Required: Yes

configurationDetails

The configuration details for the protected job receiver.

Type: ProtectedJobConfigurationDetails object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobResult

Details about the job results.

Contents

output

The output of the protected job.

Type: ProtectedJobOutput object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobResultConfigurationInput

The protected job result configuration input.

Contents

outputConfiguration

The output configuration for a protected job result.

Type: ProtectedJobOutputConfigurationInput object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobResultConfigurationOutput

The output configuration for a protected job result.

Contents

outputConfiguration

The output configuration.

Type: ProtectedJobOutputConfigurationOutput object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobS3Output

Contains output information for protected jobs with an S3 output type.

Contents

location

The S3 location for the protected job output.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobS3OutputConfigurationInput

Contains input information for protected jobs with an S3 output type.

Contents

bucket

The S3 bucket for job output.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `.*(?!^(\d+\.)+\d+$)(^(([a-z0-9]|[a-z0-9][a-z0-9\-]*[a-z0-9])\.)*([a-z0-9]|[a-z0-9][a-z0-9\-]*[a-z0-9])$).*`

Required: Yes

keyPrefix

The S3 prefix to unload the protected job results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `[\w!.=*/-]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobS3OutputConfigurationOutput

The output configuration for a protected job's S3 output.

Contents

bucket

The S3 bucket for job output.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `.*(?!^(\d+\.)+\d+$)(^(([a-z0-9]|[a-z0-9][a-z0-9\-]*[a-z0-9])\.)*([a-z0-9]|[a-z0-9][a-z0-9\-]*[a-z0-9])$).*`

Required: Yes

keyPrefix

The S3 prefix to unload the protected job results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `[\w!.=*/-]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobSingleMemberOutput

Details about the member who received the job result.

Contents

accountId

The AWS account ID of the member in the collaboration who can receive results from analyses.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobStatistics

Contains statistics about the execution of the protected job.

Contents

billedResourceUtilization

The billed resource utilization for the protected job.

Type: BilledJobResourceUtilization object

Required: No

totalDurationInMillis

The duration of the protected job, from creation until job completion, in milliseconds.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobSummary

The protected job summary for the objects listed by the request.

Contents

createTime

The time the protected job was created.

Type: Timestamp

Required: Yes

id

The ID of the protected job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The unique ARN for the membership that initiated the protected job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The unique ID for the membership that initiated the protected job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

receiverConfigurations

The receiver configurations for the protected job.

Type: Array of ProtectedJobReceiverConfiguration objects

Required: Yes

status

The status of the protected job.

Type: String

Valid Values: `SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS`

Required: Yes

jobComputePayerAccountId

The account ID of the member that pays for the job compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedJobWorkerComputeConfiguration

The configuration of the compute resources for a PySpark job.

Contents

number

The number of workers for a PySpark job.

Type: Integer

Valid Range: Minimum value of 4. Maximum value of 1024.

Required: Yes

type

The worker compute configuration type.

Type: String

Valid Values: `CR.1X | CR.4X`

Required: Yes

properties

The configuration properties for the worker compute environment. These properties allow you to customize the compute settings for your AWS Clean Rooms workloads.

Type: WorkerComputeConfigurationProperties object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQuery

The parameters for an AWS Clean Rooms protected query.

Contents

createTime

The time at which the protected query was created.

Type: Timestamp

Required: Yes

id

The identifier for a protected query instance.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The ARN of the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The identifier for the membership.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

status

The status of the query.

Type: String

Valid Values: `SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS | TIMED_OUT`

Required: Yes

computeConfiguration

The compute configuration for the protected query.

Type: ComputeConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

differentialPrivacy

The sensitivity parameters of the differential privacy results of the protected query.

Type: DifferentialPrivacyParameters object

Required: No

error

An error thrown by the protected query.

Type: ProtectedQueryError object

Required: No

queryComputePayerAccountId

The account ID of the member that pays for the query compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

result

The result of the protected query.

Type: ProtectedQueryResult object

Required: No

resultConfiguration

Contains any details needed to write the query results.

Type: ProtectedQueryResultConfiguration object

Required: No

sqlParameters

The protected query SQL parameters.

Type: ProtectedQuerySQLParameters object

Required: No

statistics

Statistics about protected query execution.

Type: ProtectedQueryStatistics object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

ProtectedQueryDistributeOutput

Contains the output information for a protected query with a distribute output configuration.

This output type allows query results to be distributed to multiple receivers, including S3 and collaboration members. It is only available for queries using the Spark analytics engine.

Contents

memberList

Contains the output results for each member location specified in the distribute output configuration. Each entry provides details about the result distribution to a specific collaboration member.

Type: Array of ProtectedQuerySingleMemberOutput objects

Required: No

s3

Contains output information for protected queries with an S3 output type.

Type: ProtectedQueryS3Output object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryDistributeOutputConfiguration

Specifies the configuration for distributing protected query results to multiple receivers, including S3 and collaboration members.

Contents

locations

A list of locations where you want to distribute the protected query results. Each location must specify either an S3 destination or a collaboration member destination.

> **Important**
>
> You can't specify more than one S3 location.
> You can't specify the query runner's account as a member location.
> You must include either an S3 or member output configuration for each location, but not both.

Type: Array of ProtectedQueryDistributeOutputConfigurationLocation objects

Array Members: Minimum number of 1 item.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryDistributeOutputConfigurationLocation

Specifies where you'll distribute the results of your protected query. You must configure either an S3 destination or a collaboration member destination.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

member

Contains configuration details for the protected query member output.

Type: ProtectedQueryMemberOutputConfiguration object

Required: No

s3

Contains the configuration to write the query results to S3.

Type: ProtectedQueryS3OutputConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryError

Details of errors thrown by the protected query.

Contents

code

An error code for the error.

Type: String

Required: Yes

message

A description of why the query failed.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryMemberOutputConfiguration

Contains configuration details for the protected query member output.

Contents

accountId

The unique identifier for the account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryOutput

Contains details about the protected query output.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

distribute

Contains output information for protected queries that use a `distribute` output type. This output type lets you send query results to multiple locations - either to S3 or to collaboration members.

> **Note**
>
> You can only use the `distribute` output type with the Spark analytics engine.

Type: ProtectedQueryDistributeOutput object

Required: No

memberList

The list of member AWS account(s) that received the results of the query.

Type: Array of ProtectedQuerySingleMemberOutput objects

Required: No

s3

If present, the output for a protected query with an S3 output type.

Type: ProtectedQueryS3Output object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryOutputConfiguration

Contains configuration details for protected query output.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

distribute

Required configuration for a protected query with a `distribute` output type.

Type: ProtectedQueryDistributeOutputConfiguration object

Required: No

intermediateTable

The intermediate table output configuration, present when the protected query was triggered by a populate operation.

Type: IntermediateTableOutputConfiguration object

Required: No

member

Required configuration for a protected query with a `member` output type.

Type: ProtectedQueryMemberOutputConfiguration object

Required: No

s3

Required configuration for a protected query with an `s3` output type.

Type: ProtectedQueryS3OutputConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryResult

Details about the query results.

Contents

output

The output of the protected query.

Type: ProtectedQueryOutput object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryResultConfiguration

Contains configurations for protected query results.

Contents

outputConfiguration

Configuration for protected query results.

Type: ProtectedQueryOutputConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryS3Output

Contains output information for protected queries with an S3 output type.

Contents

location

The S3 location of the result.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryS3OutputConfiguration

Contains the configuration to write the query results to S3.

Contents

bucket

The S3 bucket to unload the protected query results.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `.*(?!^(\d+\.)+\d+$)(^(([a-z0-9]|[a-z0-9][a-z0-9\-]*[a-z0-9])\.)*([a-z0-9]|[a-z0-9][a-z0-9\-]*[a-z0-9])$).*`

Required: Yes

resultFormat

Intended file format of the result.

Type: String

Valid Values: `CSV | PARQUET`

Required: Yes

keyPrefix

The S3 prefix to unload the protected query results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `[\w!.=*/-]*`

Required: No

singleFileOutput

Indicates whether files should be output as a single file (`TRUE`) or output as multiple files (`FALSE`). This parameter is only supported for analyses with the Spark analytics engine.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQuerySingleMemberOutput

Details about the member who received the query result.

Contents

accountId

The AWS account ID of the member in the collaboration who can receive results for the query.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQuerySQLParameters

The parameters for the SQL type Protected Query.

Contents

analysisTemplateArn

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: No

parameters

The protected query SQL parameters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[0-9a-zA-Z_]+`

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

queryString

The query string to be submitted.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQueryStatistics

Contains statistics about the execution of the protected query.

Contents

billedResourceUtilization

The billed resource utilization.

Type: BilledResourceUtilization object

Required: No

totalDurationInMillis

The duration of the protected query, from creation until query completion, in milliseconds.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProtectedQuerySummary

The protected query summary for the objects listed by the request.

Contents

createTime

The time the protected query was created.

Type: Timestamp

Required: Yes

id

The unique ID of the protected query.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

membershipArn

The unique ARN for the membership that initiated the protected query.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

membershipId

The unique ID for the membership that initiated the protected query.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

receiverConfigurations

The receiver configuration.

Type: Array of ReceiverConfiguration objects

Required: Yes

status

The status of the protected query.

Type: String

Valid Values: `SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS | TIMED_OUT`

Required: Yes

intermediateTableConfiguration

The intermediate table configuration, present when the protected query was triggered by a populate operation.

Type: IntermediateTableOutputConfiguration object

Required: No

queryComputePayerAccountId

The account ID of the member that pays for the query compute costs.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

QueryComputePaymentConfig

An object representing the collaboration member's payment responsibilities set by the collaboration creator for query compute costs.

Contents

isResponsible

Indicates whether the collaboration creator has configured the collaboration member to pay for query compute costs (TRUE) or has not configured the collaboration member to pay for query compute costs (FALSE).

One or more members can be configured as payer candidates for query compute costs.

If the collaboration creator hasn't specified anyone as the member paying for query compute costs, then the member who can query is the default payer.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

QueryConstraint

Provides any necessary query constraint information.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

requireOverlap

An array of column names that specifies which columns are required in the JOIN statement.

Type: QueryConstraintRequireOverlap object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

QueryConstraintRequireOverlap

Provides the name of the columns that are required to overlap.

Contents

columns

The columns that are required to overlap.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ReceiverConfiguration

The receiver configuration for a protected query.

Contents

analysisType

The type of analysis for the protected query. The results of the query can be analyzed directly (`DIRECT_ANALYSIS`) or used as input into additional analyses (`ADDITIONAL_ANALYSIS`), such as a query that is a seed for a lookalike ML model.

Type: String

Valid Values: `DIRECT_ANALYSIS | ADDITIONAL_ANALYSIS`

Required: Yes

configurationDetails

The configuration details of the receiver configuration.

Type: ConfigurationDetails object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3Location

The S3 location.

Contents

bucket

The bucket name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `.*(?!^(\d+\.)+\d+$)(^(([a-z0-9]|[a-z0-9][a-z0-9\-]*[a-z0-9])\.)*([a-z0-9]|[a-z0-9][a-z0-9\-]*[a-z0-9])$).*`

Required: Yes

key

The object key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `[a-zA-Z0-9!_.*'()-/]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Schema

A schema is a relation within a collaboration.

Contents

analysisRuleTypes

The analysis rule types that are associated with the schema. Currently, only one entry is present.

Type: Array of strings

Valid Values: `AGGREGATION | LIST | CUSTOM | ID_MAPPING_TABLE`

Required: Yes

collaborationArn

The unique Amazon Resource Name (ARN) for the collaboration that the schema belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique ID for the collaboration that the schema belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

columns

The columns for the relation that this schema represents.

Type: Array of Column objects

Required: Yes

createTime

The time at which the schema was created.

Type: Timestamp

Required: Yes

creatorAccountId

The unique account ID for the AWS account that owns the schema.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

description

A description for the schema.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*

Required: Yes

name

A name for the schema. The schema relation is referred to by this name when queried by a protected query.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9_](([a-zA-Z0-9_]+-)*([a-zA-Z0-9_]+))?

Required: Yes

partitionKeys

The partition keys for the dataset underlying this schema.

Type: Array of Column objects

Required: Yes

schemaStatusDetails

Details about the status of the schema. Currently, only one entry is present.

Type: Array of SchemaStatusDetail objects

Required: Yes

type

The type of schema.

Type: String

Valid Values: `TABLE | ID_MAPPING_TABLE | INTERMEDIATE_TABLE`

Required: Yes

updateTime

The most recent time at which the schema was updated.

Type: Timestamp

Required: Yes

analysisMethod

The analysis method for the schema.

`DIRECT_QUERY` allows SQL queries to be run directly on this table.

`DIRECT_JOB` allows PySpark jobs to be run directly on this table.

`MULTIPLE` allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: `DIRECT_QUERY | DIRECT_JOB | MULTIPLE`

Required: No

resourceArn

The Amazon Resource Name (ARN) of the schema resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership\/[\d\w-]+\/(configuredtableassociation|idmappingtable)\/[\d\w-]+`

Required: No

schemaTypeProperties

The schema type properties.

Type: SchemaTypeProperties object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

selectedAnalysisMethods

The selected analysis methods for the schema.

Type: Array of strings

Valid Values: `DIRECT_QUERY | DIRECT_JOB`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

SchemaAnalysisRuleRequest

Defines the information that's necessary to retrieve an analysis rule schema. Schema analysis rules are uniquely identified by a combination of the schema name and the analysis rule type for a given collaboration.

Contents

name

The name of the analysis rule schema that you are requesting.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

type

The type of analysis rule schema that you are requesting.

Type: String

Valid Values: `AGGREGATION | LIST | CUSTOM | ID_MAPPING_TABLE`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaStatusDetail

Information about the schema status.

A status of READY means that based on the schema analysis rule, queries of the given analysis rule type are properly configured to run queries on this schema.

Contents

analysisType

The type of analysis that can be performed on the schema.

A schema can have an analysisType of DIRECT_ANALYSIS, ADDITIONAL_ANALYSIS_FOR_AUDIENCE_GENERATION, or both.

Type: String

Valid Values: DIRECT_ANALYSIS | ADDITIONAL_ANALYSIS

Required: Yes

status

The status of the schema, indicating if it is ready to query.

Type: String

Valid Values: READY | NOT_READY

Required: Yes

analysisRuleType

The analysis rule type for which the schema status has been evaluated.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM | ID_MAPPING_TABLE

Required: No

configurations

The configuration details of the schema analysis rule for the given type.

Type: Array of strings

Valid Values: `DIFFERENTIAL_PRIVACY`

Required: No

reasons

The reasons why the schema status is set to its current state.

Type: Array of SchemaStatusReason objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaStatusReason

A reason why the schema status is set to its current value.

Contents

code

The schema status reason code.

Type: String

Valid Values: `ANALYSIS_RULE_MISSING | ANALYSIS_TEMPLATES_NOT_CONFIGURED | ANALYSIS_PROVIDERS_NOT_CONFIGURED | DIFFERENTIAL_PRIVACY_POLICY_NOT_CONFIGURED | ID_MAPPING_TABLE_NOT_POPULATED | COLLABORATION_ANALYSIS_RULE_NOT_CONFIGURED | ADDITIONAL_ANALYSES_NOT_CONFIGURED | RESULT_RECEIVERS_NOT_CONFIGURED | ADDITIONAL_ANALYSES_NOT_ALLOWED | RESULT_RECEIVERS_NOT_ALLOWED | ANALYSIS_RULE_TYPES_NOT_COMPATIBLE | INTERMEDIATE_TABLE_NOT_POPULATED | INTERMEDIATE_TABLE_ANALYSIS_RULE_MISSING | INTERMEDIATE_TABLE_BASE_TABLE_REMOVED | INTERMEDIATE_TABLE_INHERITED_CONSTRAINTS_VIOLATED | INTERMEDIATE_TABLE_DISALLOWED_BY_DATA_PROVIDER | INTERMEDIATE_TABLE_RETENTION_PERIOD_EXPIRED`

Required: Yes

message

An explanation of the schema status reason code.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaSummary

The schema summary for the objects listed by the request.

Contents

analysisRuleTypes

The types of analysis rules that are associated with this schema object.

Type: Array of strings

Valid Values: `AGGREGATION | LIST | CUSTOM | ID_MAPPING_TABLE`

Required: Yes

collaborationArn

The unique ARN for the collaboration that the schema belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

collaborationId

The unique ID for the collaboration that the schema belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

createTime

The time the schema object was created.

Type: Timestamp

Required: Yes

creatorAccountId

The unique account ID for the AWS account that owns the schema.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

name

The name for the schema object.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_](([a-zA-Z0-9_ ]+-)*([a-zA-Z0-9_ ]+))?`

Required: Yes

type

The type of schema object.

Type: String

Valid Values: `TABLE | ID_MAPPING_TABLE | INTERMEDIATE_TABLE`

Required: Yes

updateTime

The time the schema object was last updated.

Type: Timestamp

Required: Yes

analysisMethod

The analysis method for the associated schema.

`DIRECT_QUERY` allows SQL queries to be run directly on this table.

`DIRECT_JOB` allows PySpark jobs to be run directly on this table.

`MULTIPLE` allows both SQL queries and PySpark jobs to be run directly on this table.

Type: String

Valid Values: `DIRECT_QUERY | DIRECT_JOB | MULTIPLE`

Required: No

resourceArn

The Amazon Resource Name (ARN) of the schema summary resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership\/[\d\w-]+\/(configuredtableassociation|idmappingtable)\/[\d\w-]+`

Required: No

selectedAnalysisMethods

The selected analysis methods for the schema.

Type: Array of strings

Valid Values: `DIRECT_QUERY | DIRECT_JOB`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SchemaTypeProperties

Information about the schema type properties.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

configuredTableAssociation

The schema type properties for a configured table association.

Type: ConfiguredTableAssociationSchemaTypeProperties object

Required: No

idMappingTable

The ID mapping table for the schema type properties.

Type: IdMappingTableSchemaTypeProperties object

Required: No

intermediateTable

The schema type properties for an intermediate table.

Type: IntermediateTableSchemaTypeProperties object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

SnowflakeTableReference

A reference to a table within Snowflake.

Contents

accountIdentifier

The account identifier for the Snowflake table reference.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 256.

Pattern: `[\p{L}\p{M}\p{N}\p{Pc}\p{Pd}\p{Zs}.]+`

Required: Yes

databaseName

The name of the database the Snowflake table belongs to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}\p{M}\p{N}\p{Pc}\p{Pd}\p{Zs}]+`

Required: Yes

schemaName

The schema name of the Snowflake table reference.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}\p{M}\p{N}\p{Pc}\p{Pd}\p{Zs}]+`

Required: Yes

secretArn

The secret ARN of the Snowflake table reference.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:secretsmanager:[a-z]{2}-[a-z]+-[0-9]:\d{12}:secret:.*`

Required: Yes

tableName

The name of the Snowflake table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}\p{M}\p{N}\p{Pc}\p{Pd}\p{Zs}]+`

Required: Yes

tableSchema

The schema of the Snowflake table.

Type: SnowflakeTableSchema object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SnowflakeTableSchema

The schema of a Snowflake table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

v1

The schema of a Snowflake table.

Type: Array of SnowflakeTableSchemaV1 objects

Array Members: Minimum number of 1 item. Maximum number of 250 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SnowflakeTableSchemaV1

The Snowflake table schema.

Contents

columnName

The column name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_](([a-z0-9_ ]+-)*([a-z0-9_ ]+))?`

Required: Yes

columnType

The column's data type. Supported data types: `ARRAY`, `BIGINT`, `BOOLEAN`, `CHAR`, `DATE`, `DECIMAL`, `DOUBLE`, `DOUBLE PRECISION`, `FLOAT`, `FLOAT4`, `INT`, `INTEGER`, `MAP`, `NUMERIC`, `NUMBER`, `REAL`, `SMALLINT`, `STRING`, `TIMESTAMP`, `TIMESTAMP_LTZ`, `TIMESTAMP_NTZ`, `DATETIME`, `TINYINT`, `VARCHAR`, `TEXT`, `CHARACTER`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SyntheticDataColumnProperties

Properties that define how a specific data column should be handled during synthetic data generation, including its name, type, and role in predictive modeling.

Contents

columnName

The name of the data column as it appears in the dataset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_](([a-z0-9_]+-)*([a-z0-9_]+))?`

Required: Yes

columnType

The data type of the column, which determines how the synthetic data generation algorithm processes and synthesizes values for this column.

Type: String

Valid Values: `CATEGORICAL | NUMERICAL`

Required: Yes

isPredictiveValue

Indicates if this column contains predictive values that should be treated as target variables in machine learning models. This affects how the synthetic data generation preserves statistical relationships.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SyntheticDataGenerationPaymentConfig

Payment configuration for synthetic data generation.

Contents

isResponsible

Indicates who is responsible for paying for synthetic data generation.

Type: Boolean

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SyntheticDataParameters

The parameters that control how synthetic data is generated, including privacy settings, column classifications, and other configuration options that affect the data synthesis process.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

mlSyntheticDataParameters

The machine learning-specific parameters for synthetic data generation.

Type: MLSyntheticDataParameters object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TableReference

A pointer to the dataset that underlies this table.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

athena

If present, a reference to the Athena table referred to by this table reference.

Type: AthenaTableReference object

Required: No

glue

If present, a reference to the AWS Glue table referred to by this table reference.

Type: GlueTableReference object

Required: No

snowflake

If present, a reference to the Snowflake table referred to by this table reference.

Type: SnowflakeTableReference object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateMembershipPaymentConfiguration

An object representing the payment responsibilities to update for the membership.

Contents

jobCompute

An object representing the payment responsibilities accepted by the collaboration member for query and job compute costs.

Type: MembershipJobComputePaymentConfig object

Required: No

machineLearning

An object representing the collaboration member's machine learning payment responsibilities set by the collaboration creator.

Type: MembershipMLPaymentConfig object

Required: No

queryCompute

An object representing the payment responsibilities accepted by the collaboration member for query compute costs.

Type: MembershipQueryComputePaymentConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ValidationExceptionField

Describes validation errors for specific input parameters.

Contents

message

A message for the input validation error.

Type: String

Required: Yes

name

The name of the input parameter.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WorkerComputeConfiguration

The configuration of the compute resources for workers running an analysis with the AWS Clean Rooms SQL analytics engine.

Contents

number

The number of workers.

SQL queries support a minimum value of 2 and a maximum value of 400.

PySpark jobs support a minimum value of 4 and a maximum value of 128.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 1024.

Required: No

properties

The configuration properties for the worker compute environment. These properties allow you to customize the compute settings for your AWS Clean Rooms workloads.

Type: WorkerComputeConfigurationProperties object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

type

The worker compute configuration type.

Type: String

Valid Values: `CR.1X | CR.4X | CR.8X`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WorkerComputeConfigurationProperties

The configuration properties that define the compute environment settings for workers in AWS Clean Rooms. These properties enable customization of the underlying compute environment to optimize performance for your specific workloads.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

spark

The Spark configuration properties for SQL and PySpark workloads. This map contains key-value pairs that configure Apache Spark settings to optimize performance for your data processing jobs. You can specify up to 50 Spark properties, with each key being 1-200 characters and each value being 0-500 characters. These properties allow you to adjust compute capacity for large datasets and complex workloads.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 200.

Value Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400