亚马逊云科技

API Reference

Amazon Glue DataBrew

API Version 2017-07-25

Amazon Glue DataBrew: API Reference

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Welcome

Amazon Glue DataBrew is a visual, cloud-scale data-preparation service. DataBrew simplifies data preparation tasks, targeting data issues that are hard to spot and time-consuming to fix. DataBrew empowers users of all technical levels to visualize the data and perform one-click data transformations, with no coding required.

This document was last published on November 10, 2026.

Actions

The following actions are supported:

- BatchDeleteRecipeVersion
- CreateDataset
- CreateProfileJob
- CreateProject
- CreateRecipe
- CreateRecipeJob
- CreateRuleset
- CreateSchedule
- DeleteDataset
- DeleteJob
- DeleteProject
- DeleteRecipeVersion
- DeleteRuleset
- DeleteSchedule
- DescribeDataset
- DescribeJob
- DescribeJobRun
- DescribeProject
- DescribeRecipe
- DescribeRuleset
- DescribeSchedule
- ListDatasets
- ListJobRuns
- ListJobs
- ListProjects
- ListRecipes
- ListRecipeVersions

- ListRulesets
- ListSchedules
- ListTagsForResource
- PublishRecipe
- SendProjectSessionAction
- StartJobRun
- StartProjectSession
- StopJobRun
- TagResource
- UntagResource
- UpdateDataset
- UpdateProfileJob
- UpdateProject
- UpdateRecipe
- UpdateRecipeJob
- UpdateRuleset
- UpdateSchedule

BatchDeleteRecipeVersion

Deletes one or more versions of a recipe at a time.

The entire request will be rejected if:

- The recipe does not exist.
- There is an invalid version identifier in the list of versions.
- The version list is empty.
- The version list size exceeds 50.
- The version list contains duplicate entries.

The request will complete successfully, but with partial failures, if:

- A version does not exist.
- A version is being used by a job.
- You specify `LATEST_WORKING`, but it's being used by a project.
- The version fails to be deleted.

The `LATEST_WORKING` version will only be deleted if the recipe has no other versions. If you try to delete `LATEST_WORKING` while other versions exist (or if they can't be deleted), then `LATEST_WORKING` will be listed as partial failure in the response.

Request Syntax

```
POST /recipes/Name/batchDeleteRecipeVersion HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the recipe whose versions are to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request accepts the following data in JSON format.

RecipeVersions

An array of version identifiers, for the recipe versions to be deleted. You can specify numeric versions (`X.Y`) or `LATEST_WORKING`. `LATEST_PUBLISHED` is not supported.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 16.

Required: Yes

Response Syntax

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

{
   "Errors": [
      {
         "ErrorCode": "string",
         "ErrorMessage": "string",
         "RecipeVersion": "string"
      }
   ],
   "Name": "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.

Name

The name of the recipe that was modified.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

Errors, if any, that occurred while attempting to delete the recipe versions.

Type: Array of RecipeVersionErrorDetail objects

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

CreateDataset

Creates a new DataBrew dataset.

Request Syntax

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

{
   "Format": "string",
   "FormatOptions": {
      "Csv": {
         "Delimiter": "string",
         "HeaderRow": boolean
      },
      "Excel": {
         "HeaderRow": boolean,
         "SheetIndexes": [ number ],
         "SheetNames": [ "string" ]
      },
      "Json": {
         "MultiLine": boolean
      }
   },
   "Input": {
      "DatabaseInputDefinition": {
         "DatabaseTableName": "string",
         "GlueConnectionName": "string",
         "QueryString": "string",
         "TempDirectory": {
            "Bucket": "string",
            "BucketOwner": "string",
            "Key": "string"
         }
      },
      "DataCatalogInputDefinition": {
         "CatalogId": "string",
         "DatabaseName": "string",
         "TableName": "string",
         "TempDirectory": {
            "Bucket": "string",
            "BucketOwner": "string",
```

```
            "Key": "string"
         }
      },
      "Metadata": {
         "SourceArn": "string"
      },
      "S3InputDefinition": {
         "Bucket": "string",
         "BucketOwner": "string",
         "Key": "string"
      }
   },
   "Name": "string",
   "PathOptions": {
      "FilesLimit": {
         "MaxFiles": number,
         "Order": "string",
         "OrderedBy": "string"
      },
      "LastModifiedDateCondition": {
         "Expression": "string",
         "ValuesMap": {
            "string" : "string"
         }
      },
      "Parameters": {
         "string" : {
            "CreateColumn": boolean,
            "DatetimeOptions": {
               "Format": "string",
               "LocaleCode": "string",
               "TimezoneOffset": "string"
            },
            "Filter": {
               "Expression": "string",
               "ValuesMap": {
                  "string" : "string"
               }
            },
            "Name": "string",
            "Type": "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.

Input

Represents information on how DataBrew can find data, in either the Amazon Glue Data Catalog or Amazon S3.

Type: Input object

Required: Yes

Name

The name of the dataset to be created. Valid characters are alphanumeric (A-Z, a-z, 0-9), hyphen (-), period (.), and space.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Format

The file format of a dataset that is created from an Amazon S3 file or folder.

Type: String

Valid Values: `CSV | JSON | PARQUET | EXCEL | ORC`

Required: No

FormatOptions

Represents a set of options that define the structure of either comma-separated value (CSV), Excel, or JSON input.

Type: FormatOptions object

Required: No

PathOptions

A set of options that defines how DataBrew interprets an Amazon S3 path of the dataset.

Type: PathOptions object

Required: No

Tags

Metadata tags to apply to this dataset.

Type: String to string map

Map Entries: 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

{
   "Name": "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.

Name

The name of the dataset that you created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

AccessDeniedException

Access to the specified resource was denied.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2

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

CreateProfileJob

Creates a new job to analyze a dataset and create its data profile.

Request Syntax

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

{
   "Configuration": {
      "ColumnStatisticsConfigurations": [
         {
            "Selectors": [
               {
                  "Name": "string",
                  "Regex": "string"
               }
            ],
            "Statistics": {
               "IncludedStatistics": [ "string" ],
               "Overrides": [
                  {
                     "Parameters": {
                        "string" : "string"
                     },
                     "Statistic": "string"
                  }
               ]
            }
         }
      ],
      "DatasetStatisticsConfiguration": {
         "IncludedStatistics": [ "string" ],
         "Overrides": [
            {
               "Parameters": {
                  "string" : "string"
               },
               "Statistic": "string"
            }
         ]
      },
```

```
      "EntityDetectorConfiguration": {
         "AllowedStatistics": [
            {
               "Statistics": [ "string" ]
            }
         ],
         "EntityTypes": [ "string" ]
      },
      "ProfileColumns": [
         {
            "Name": "string",
            "Regex": "string"
         }
      ]
   },
   "DatasetName": "string",
   "EncryptionKeyArn": "string",
   "EncryptionMode": "string",
   "JobSample": {
      "Mode": "string",
      "Size": number
   },
   "LogSubscription": "string",
   "MaxCapacity": number,
   "MaxRetries": number,
   "Name": "string",
   "OutputLocation": {
      "Bucket": "string",
      "BucketOwner": "string",
      "Key": "string"
   },
   "RoleArn": "string",
   "Tags": {
      "string" : "string"
   },
   "Timeout": number,
   "ValidationConfigurations": [
      {
         "RulesetArn": "string",
         "ValidationMode": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

DatasetName

The name of the dataset that this job is to act upon.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Name

The name of the job to be created. Valid characters are alphanumeric (A-Z, a-z, 0-9), hyphen (-), period (.), and space.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

OutputLocation

Represents an Amazon S3 location (bucket name, bucket owner, and object key) where DataBrew can read input data, or write output from a job.

Type: S3Location object

Required: Yes

RoleArn

The Amazon Resource Name (ARN) of the Amazon Identity and Access Management (IAM) role to be assumed when DataBrew runs the job.

Type: String

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

Required: Yes

Configuration

Configuration for profile jobs. Used to select columns, do evaluations, and override default parameters of evaluations. When configuration is null, the profile job will run with default settings.

Type: ProfileConfiguration object

Required: No

EncryptionKeyArn

The Amazon Resource Name (ARN) of an encryption key that is used to protect the job.

Type: String

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

Required: No

EncryptionMode

The encryption mode for the job, which can be one of the following:

- `SSE-KMS` - `SSE-KMS` - Server-side encryption with Amazon KMS-managed keys.
- `SSE-S3` - Server-side encryption with keys managed by Amazon S3.

Type: String

Valid Values: `SSE-KMS | SSE-S3`

Required: No

JobSample

Sample configuration for profile jobs only. Determines the number of rows on which the profile job will be executed. If a JobSample value is not provided, the default value will be used. The default value is CUSTOM_ROWS for the mode parameter and 20000 for the size parameter.

Type: JobSample object

Required: No

LogSubscription

Enables or disables Amazon CloudWatch logging for the job. If logging is enabled, CloudWatch writes one log stream for each job run.

Type: String

Valid Values: `ENABLE | DISABLE`

Required: No

MaxCapacity

The maximum number of nodes that DataBrew can use when the job processes data.

Type: Integer

Required: No

MaxRetries

The maximum number of times to retry the job after a job run fails.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Tags

Metadata tags to apply to this job.

Type: String to string map

Map Entries: 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

Timeout

The job's timeout in minutes. A job that attempts to run longer than this timeout period ends with a status of `TIMEOUT`.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

ValidationConfigurations

List of validation configurations that are applied to the profile job.

Type: Array of ValidationConfiguration objects

Array Members: Minimum number of 1 item.

Required: No

Response Syntax

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

{
   "Name": "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.

Name

The name of the job that was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Errors

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

AccessDeniedException

Access to the specified resource was denied.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin

- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

CreateProject

Creates a new DataBrew project.

Request Syntax

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

{
   "DatasetName": "string",
   "Name": "string",
   "RecipeName": "string",
   "RoleArn": "string",
   "Sample": {
      "Size": number,
      "Type": "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.

DatasetName

The name of an existing dataset to associate this project with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Name

A unique name for the new project. Valid characters are alphanumeric (A-Z, a-z, 0-9), hyphen (-), period (.), and space.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

RecipeName

The name of an existing recipe to associate with the project.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

RoleArn

The Amazon Resource Name (ARN) of the Amazon Identity and Access Management (IAM) role to be assumed for this request.

Type: String

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

Required: Yes

Sample

Represents the sample size and sampling type for DataBrew to use for interactive data analysis.

Type: Sample object

Required: No

Tags

Metadata tags to apply to this project.

Type: String to string map

Map Entries: 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

{
   "Name": "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.

Name

The name of the project that you created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An internal service failure occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

CreateRecipe

Creates a new DataBrew recipe.

Request Syntax

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

{
   "Description": "string",
   "Name": "string",
   "Steps": [
      {
         "Action": {
            "Operation": "string",
            "Parameters": {
               "string" : "string"
            }
         },
         "ConditionExpressions": [
            {
               "Condition": "string",
               "TargetColumn": "string",
               "Value": "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.

Name

A unique name for the recipe. Valid characters are alphanumeric (A-Z, a-z, 0-9), hyphen (-), period (.), and space.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Steps

An array containing the steps to be performed by the recipe. Each recipe step consists of one recipe action and (optionally) an array of condition expressions.

Type: Array of RecipeStep objects

Required: Yes

Description

A description for the recipe.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Tags

Metadata tags to apply to this recipe.

Type: String to string map

Map Entries: 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

{
   "Name": "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.

Name

The name of the recipe that you created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

CreateRecipeJob

Creates a new job to transform input data, using steps defined in an existing Amazon Glue DataBrew recipe

Request Syntax

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

{
   "DatabaseOutputs": [
      {
         "DatabaseOptions": {
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "DatabaseOutputMode": "string",
         "GlueConnectionName": "string"
      }
   ],
   "DataCatalogOutputs": [
      {
         "CatalogId": "string",
         "DatabaseName": "string",
         "DatabaseOptions": {
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "Overwrite": boolean,
         "S3Options": {
            "Location": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
```

```
            }
         },
         "TableName": "string"
      }
   ],
   "DatasetName": "string",
   "EncryptionKeyArn": "string",
   "EncryptionMode": "string",
   "LogSubscription": "string",
   "MaxCapacity": number,
   "MaxRetries": number,
   "Name": "string",
   "Outputs": [
      {
         "CompressionFormat": "string",
         "Format": "string",
         "FormatOptions": {
            "Csv": {
               "Delimiter": "string"
            }
         },
         "Location": {
            "Bucket": "string",
            "BucketOwner": "string",
            "Key": "string"
         },
         "MaxOutputFiles": number,
         "Overwrite": boolean,
         "PartitionColumns": [ "string" ]
      }
   ],
   "ProjectName": "string",
   "RecipeReference": {
      "Name": "string",
      "RecipeVersion": "string"
   },
   "RoleArn": "string",
   "Tags": {
      "string" : "string"
   },
   "Timeout": number
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Name

A unique name for the job. Valid characters are alphanumeric (A-Z, a-z, 0-9), hyphen (-), period (.), and space.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

RoleArn

The Amazon Resource Name (ARN) of the Amazon Identity and Access Management (IAM) role to be assumed when DataBrew runs the job.

Type: String

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

Required: Yes

DatabaseOutputs

Represents a list of JDBC database output objects which defines the output destination for a DataBrew recipe job to write to.

Type: Array of DatabaseOutput objects

Array Members: Minimum number of 1 item.

Required: No

DataCatalogOutputs

One or more artifacts that represent the Amazon Glue Data Catalog output from running the job.

Type: Array of DataCatalogOutput objects

Array Members: Minimum number of 1 item.

Required: No

DatasetName

The name of the dataset that this job processes.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

EncryptionKeyArn

The Amazon Resource Name (ARN) of an encryption key that is used to protect the job.

Type: String

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

Required: No

EncryptionMode

The encryption mode for the job, which can be one of the following:

- `SSE-KMS` - Server-side encryption with keys managed by Amazon KMS.
- `SSE-S3` - Server-side encryption with keys managed by Amazon S3.

Type: String

Valid Values: `SSE-KMS | SSE-S3`

Required: No

LogSubscription

Enables or disables Amazon CloudWatch logging for the job. If logging is enabled, CloudWatch writes one log stream for each job run.

Type: String

Valid Values: `ENABLE | DISABLE`

Required: No

MaxCapacity

The maximum number of nodes that DataBrew can consume when the job processes data.

Type: Integer

Required: No

MaxRetries

The maximum number of times to retry the job after a job run fails.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Outputs

One or more artifacts that represent the output from running the job.

Type: Array of Output objects

Array Members: Minimum number of 1 item.

Required: No

ProjectName

Either the name of an existing project, or a combination of a recipe and a dataset to associate with the recipe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

RecipeReference

Represents the name and version of a DataBrew recipe.

Type: RecipeReference object

Required: No

Tags

Metadata tags to apply to this job.

Type: String to string map

Map Entries: 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

Timeout

The job's timeout in minutes. A job that attempts to run longer than this timeout period ends with a status of `TIMEOUT`.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Response Syntax

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

{
   "Name": "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.

Name

The name of the job that you created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Errors

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

AccessDeniedException

Access to the specified resource was denied.

HTTP Status Code: 403

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2

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

CreateRuleset

Creates a new ruleset that can be used in a profile job to validate the data quality of a dataset.

Request Syntax

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

{
   "Description": "string",
   "Name": "string",
   "Rules": [
      {
         "CheckExpression": "string",
         "ColumnSelectors": [
            {
               "Name": "string",
               "Regex": "string"
            }
         ],
         "Disabled": boolean,
         "Name": "string",
         "SubstitutionMap": {
            "string" : "string"
         },
         "Threshold": {
            "Type": "string",
            "Unit": "string",
            "Value": number
         }
      }
   ],
   "Tags": {
      "string" : "string"
   },
   "TargetArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Name

The name of the ruleset to be created. Valid characters are alphanumeric (A-Z, a-z, 0-9), hyphen (-), period (.), and space.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Rules

A list of rules that are defined with the ruleset. A rule includes one or more checks to be validated on a DataBrew dataset.

Type: Array of Rule objects

Array Members: Minimum number of 1 item.

Required: Yes

TargetArn

The Amazon Resource Name (ARN) of a resource (dataset) that the ruleset is associated with.

Type: String

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

Required: Yes

Description

The description of the ruleset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Tags

Metadata tags to apply to the ruleset.

Type: String to string map

Map Entries: 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

{
   "Name": "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.

Name

The unique name of the created ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

CreateSchedule

Creates a new schedule for one or more DataBrew jobs. Jobs can be run at a specific date and time, or at regular intervals.

Request Syntax

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

{
   "CronExpression": "string",
   "JobNames": [ "string" ],
   "Name": "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.

CronExpression

The date or dates and time or times when the jobs are to be run. For more information, see Cron expressions in the *Amazon Glue DataBrew Developer Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Name

A unique name for the schedule. Valid characters are alphanumeric (A-Z, a-z, 0-9), hyphen (-), period (.), and space.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

JobNames

The name or names of one or more jobs to be run.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: No

Tags

Metadata tags to apply to this schedule.

Type: String to string map

Map Entries: 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

{
   "Name": "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.

Name

The name of the schedule that was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

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

DeleteDataset

Deletes a dataset from DataBrew.

Request Syntax

```
DELETE /datasets/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the dataset to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Name": "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.

Name

The name of the dataset that you deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3

- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

DeleteJob

Deletes the specified DataBrew job.

Request Syntax

```
DELETE /jobs/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the job to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Name": "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.

Name

The name of the job that you deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3

- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

DeleteProject

Deletes an existing DataBrew project.

Request Syntax

```
DELETE /projects/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the project to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Name": "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.

Name

The name of the project that you deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3

- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

DeleteRecipeVersion

Deletes a single version of a DataBrew recipe.

Request Syntax

```
DELETE /recipes/Name/recipeVersion/RecipeVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the recipe.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

RecipeVersion

The version of the recipe to be deleted. You can specify a numeric versions (`X.Y`) or `LATEST_WORKING`. `LATEST_PUBLISHED` is not supported.

Length Constraints: Minimum length of 1. Maximum length of 16.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Name": "string",
```

```
    "RecipeVersion": "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.

Name

The name of the recipe that was deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

RecipeVersion

The version of the recipe that was deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16.

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

DeleteRuleset

Deletes a ruleset.

Request Syntax

```
DELETE /rulesets/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the ruleset to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Name": "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.

Name

The name of the deleted ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3

- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

DeleteSchedule

Deletes the specified DataBrew schedule.

Request Syntax

```
DELETE /schedules/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the schedule to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Name": "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.

Name

The name of the schedule that was deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

- Amazon SDK for Ruby V3

DescribeDataset

Returns the definition of a specific DataBrew dataset.

Request Syntax

```
GET /datasets/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the dataset to be described.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CreateDate": number,
   "CreatedBy": "string",
   "Format": "string",
   "FormatOptions": {
      "Csv": {
         "Delimiter": "string",
         "HeaderRow": boolean
      },
      "Excel": {
         "HeaderRow": boolean,
         "SheetIndexes": [ number ],
```

```
            "SheetNames": [ "string" ]
         },
         "Json": {
            "MultiLine": boolean
         }
      },
      "Input": {
         "DatabaseInputDefinition": {
            "DatabaseTableName": "string",
            "GlueConnectionName": "string",
            "QueryString": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "DataCatalogInputDefinition": {
            "CatalogId": "string",
            "DatabaseName": "string",
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "Metadata": {
            "SourceArn": "string"
         },
         "S3InputDefinition": {
            "Bucket": "string",
            "BucketOwner": "string",
            "Key": "string"
         }
      },
      "LastModifiedBy": "string",
      "LastModifiedDate": number,
      "Name": "string",
      "PathOptions": {
         "FilesLimit": {
            "MaxFiles": number,
            "Order": "string",
            "OrderedBy": "string"
```

```
      },
      "LastModifiedDateCondition": {
         "Expression": "string",
         "ValuesMap": {
            "string" : "string"
         }
      },
      "Parameters": {
         "string" : {
            "CreateColumn": boolean,
            "DatetimeOptions": {
               "Format": "string",
               "LocaleCode": "string",
               "TimezoneOffset": "string"
            },
            "Filter": {
               "Expression": "string",
               "ValuesMap": {
                  "string" : "string"
               }
            },
            "Name": "string",
            "Type": "string"
         }
      }
   },
   "ResourceArn": "string",
   "Source": "string",
   "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.

Input

Represents information on how DataBrew can find data, in either the Amazon Glue Data Catalog or Amazon S3.

Type: Input object

Name

The name of the dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

CreateDate

The date and time that the dataset was created.

Type: Timestamp

CreatedBy

The identifier (user name) of the user who created the dataset.

Type: String

Format

The file format of a dataset that is created from an Amazon S3 file or folder.

Type: String

Valid Values: `CSV | JSON | PARQUET | EXCEL | ORC`

FormatOptions

Represents a set of options that define the structure of either comma-separated value (CSV), Excel, or JSON input.

Type: FormatOptions object

LastModifiedBy

The identifier (user name) of the user who last modified the dataset.

Type: String

LastModifiedDate

The date and time that the dataset was last modified.

Type: Timestamp

PathOptions

A set of options that defines how DataBrew interprets an Amazon S3 path of the dataset.

Type: PathOptions object

ResourceArn

The Amazon Resource Name (ARN) of the dataset.

Type: String

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

Source

The location of the data for this dataset, Amazon S3 or the Amazon Glue Data Catalog.

Type: String

Valid Values: `S3 | DATA-CATALOG | DATABASE`

Tags

Metadata tags associated with this dataset.

Type: String to string map

Map Entries: 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

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

DescribeJob

Returns the definition of a specific DataBrew job.

Request Syntax

```
GET /jobs/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the job to be described.

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CreateDate": number,
   "CreatedBy": "string",
   "DatabaseOutputs": [
      {
         "DatabaseOptions": {
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
```

```
         },
         "DatabaseOutputMode": "string",
         "GlueConnectionName": "string"
      }
   ],
   "DataCatalogOutputs": [
      {
         "CatalogId": "string",
         "DatabaseName": "string",
         "DatabaseOptions": {
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "Overwrite": boolean,
         "S3Options": {
            "Location": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "TableName": "string"
      }
   ],
   "DatasetName": "string",
   "EncryptionKeyArn": "string",
   "EncryptionMode": "string",
   "JobSample": {
      "Mode": "string",
      "Size": number
   },
   "LastModifiedBy": "string",
   "LastModifiedDate": number,
   "LogSubscription": "string",
   "MaxCapacity": number,
   "MaxRetries": number,
   "Name": "string",
   "Outputs": [
      {
         "CompressionFormat": "string",
```

```
         "Format": "string",
         "FormatOptions": {
            "Csv": {
               "Delimiter": "string"
            }
         },
         "Location": {
            "Bucket": "string",
            "BucketOwner": "string",
            "Key": "string"
         },
         "MaxOutputFiles": number,
         "Overwrite": boolean,
         "PartitionColumns": [ "string" ]
      }
   ],
   "ProfileConfiguration": {
      "ColumnStatisticsConfigurations": [
         {
            "Selectors": [
               {
                  "Name": "string",
                  "Regex": "string"
               }
            ],
            "Statistics": {
               "IncludedStatistics": [ "string" ],
               "Overrides": [
                  {
                     "Parameters": {
                        "string" : "string"
                     },
                     "Statistic": "string"
                  }
               ]
            }
         }
      ],
      "DatasetStatisticsConfiguration": {
         "IncludedStatistics": [ "string" ],
         "Overrides": [
            {
               "Parameters": {
                  "string" : "string"
```

```
            },
            "Statistic": "string"
         }
      ]
   },
   "EntityDetectorConfiguration": {
      "AllowedStatistics": [
         {
            "Statistics": [ "string" ]
         }
      ],
      "EntityTypes": [ "string" ]
   },
   "ProfileColumns": [
      {
         "Name": "string",
         "Regex": "string"
      }
   ]
},
"ProjectName": "string",
"RecipeReference": {
   "Name": "string",
   "RecipeVersion": "string"
},
"ResourceArn": "string",
"RoleArn": "string",
"Tags": {
   "string" : "string"
},
"Timeout": number,
"Type": "string",
"ValidationConfigurations": [
   {
      "RulesetArn": "string",
      "ValidationMode": "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.

Name

The name of the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

CreateDate

The date and time that the job was created.

Type: Timestamp

CreatedBy

The identifier (user name) of the user associated with the creation of the job.

Type: String

DatabaseOutputs

Represents a list of JDBC database output objects which defines the output destination for a DataBrew recipe job to write into.

Type: Array of DatabaseOutput objects

Array Members: Minimum number of 1 item.

DataCatalogOutputs

One or more artifacts that represent the Amazon Glue Data Catalog output from running the job.

Type: Array of DataCatalogOutput objects

Array Members: Minimum number of 1 item.

DatasetName

The dataset that the job acts upon.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

EncryptionKeyArn

The Amazon Resource Name (ARN) of an encryption key that is used to protect the job.

Type: String

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

EncryptionMode

The encryption mode for the job, which can be one of the following:

- `SSE-KMS` - Server-side encryption with keys managed by Amazon KMS.
- `SSE-S3` - Server-side encryption with keys managed by Amazon S3.

Type: String

Valid Values: `SSE-KMS | SSE-S3`

JobSample

Sample configuration for profile jobs only. Determines the number of rows on which the profile job will be executed.

Type: JobSample object

LastModifiedBy

The identifier (user name) of the user who last modified the job.

Type: String

LastModifiedDate

The date and time that the job was last modified.

Type: Timestamp

LogSubscription

Indicates whether Amazon CloudWatch logging is enabled for this job.

Type: String

Valid Values: `ENABLE | DISABLE`

MaxCapacity

The maximum number of compute nodes that DataBrew can consume when the job processes data.

Type: Integer

MaxRetries

The maximum number of times to retry the job after a job run fails.

Type: Integer

Valid Range: Minimum value of 0.

Outputs

One or more artifacts that represent the output from running the job.

Type: Array of Output objects

Array Members: Minimum number of 1 item.

ProfileConfiguration

Configuration for profile jobs. Used to select columns, do evaluations, and override default parameters of evaluations. When configuration is null, the profile job will run with default settings.

Type: ProfileConfiguration object

ProjectName

The DataBrew project associated with this job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

RecipeReference

Represents the name and version of a DataBrew recipe.

Type: RecipeReference object

ResourceArn

The Amazon Resource Name (ARN) of the job.

Type: String

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

RoleArn

The ARN of the Amazon Identity and Access Management (IAM) role to be assumed when DataBrew runs the job.

Type: String

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

Tags

Metadata tags associated with this job.

Type: String to string map

Map Entries: 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.

Timeout

The job's timeout in minutes. A job that attempts to run longer than this timeout period ends with a status of `TIMEOUT`.

Type: Integer

Valid Range: Minimum value of 0.

Type

The job type, which must be one of the following:

- `PROFILE` - The job analyzes the dataset to determine its size, data types, data distribution, and more.
- `RECIPE` - The job applies one or more transformations to a dataset.

Type: String

Valid Values: `PROFILE | RECIPE`

ValidationConfigurations

List of validation configurations that are applied to the profile job.

Type: Array of ValidationConfiguration objects

Array Members: Minimum number of 1 item.

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

- Amazon SDK for Ruby V3

DescribeJobRun

Represents one run of a DataBrew job.

Request Syntax

```
GET /jobs/Name/jobRun/RunId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the job being processed during this run.

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

RunId

The unique identifier of the job run.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Attempt": number,
   "CompletedOn": number,
   "DatabaseOutputs": [
      {
```

```
         "DatabaseOptions": {
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "DatabaseOutputMode": "string",
         "GlueConnectionName": "string"
      }
   ],
   "DataCatalogOutputs": [
      {
         "CatalogId": "string",
         "DatabaseName": "string",
         "DatabaseOptions": {
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "Overwrite": boolean,
         "S3Options": {
            "Location": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "TableName": "string"
      }
   ],
   "DatasetName": "string",
   "ErrorMessage": "string",
   "ExecutionTime": number,
   "JobName": "string",
   "JobSample": {
      "Mode": "string",
      "Size": number
   },
   "LogGroupName": "string",
```

```
   "LogSubscription": "string",
   "Outputs": [
      {
         "CompressionFormat": "string",
         "Format": "string",
         "FormatOptions": {
            "Csv": {
               "Delimiter": "string"
            }
         },
         "Location": {
            "Bucket": "string",
            "BucketOwner": "string",
            "Key": "string"
         },
         "MaxOutputFiles": number,
         "Overwrite": boolean,
         "PartitionColumns": [ "string" ]
      }
   ],
   "ProfileConfiguration": {
      "ColumnStatisticsConfigurations": [
         {
            "Selectors": [
               {
                  "Name": "string",
                  "Regex": "string"
               }
            ],
            "Statistics": {
               "IncludedStatistics": [ "string" ],
               "Overrides": [
                  {
                     "Parameters": {
                        "string" : "string"
                     },
                     "Statistic": "string"
                  }
               ]
            }
         }
      ],
      "DatasetStatisticsConfiguration": {
         "IncludedStatistics": [ "string" ],
```

```
         "Overrides": [
            {
               "Parameters": {
                  "string" : "string"
               },
               "Statistic": "string"
            }
         ]
      },
      "EntityDetectorConfiguration": {
         "AllowedStatistics": [
            {
               "Statistics": [ "string" ]
            }
         ],
         "EntityTypes": [ "string" ]
      },
      "ProfileColumns": [
         {
            "Name": "string",
            "Regex": "string"
         }
      ]
   },
   "RecipeReference": {
      "Name": "string",
      "RecipeVersion": "string"
   },
   "RunId": "string",
   "StartedBy": "string",
   "StartedOn": number,
   "State": "string",
   "ValidationConfigurations": [
      {
         "RulesetArn": "string",
         "ValidationMode": "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.

JobName

The name of the job being processed during this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Attempt

The number of times that DataBrew has attempted to run the job.

Type: Integer

CompletedOn

The date and time when the job completed processing.

Type: Timestamp

DatabaseOutputs

Represents a list of JDBC database output objects which defines the output destination for a DataBrew recipe job to write into.

Type: Array of DatabaseOutput objects

Array Members: Minimum number of 1 item.

DataCatalogOutputs

One or more artifacts that represent the Amazon Glue Data Catalog output from running the job.

Type: Array of DataCatalogOutput objects

Array Members: Minimum number of 1 item.

DatasetName

The name of the dataset for the job to process.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

ErrorMessage

A message indicating an error (if any) that was encountered when the job ran.

Type: String

ExecutionTime

The amount of time, in seconds, during which the job run consumed resources.

Type: Integer

JobSample

Sample configuration for profile jobs only. Determines the number of rows on which the profile job will be executed. If a JobSample value is not provided, the default value will be used. The default value is CUSTOM_ROWS for the mode parameter and 20000 for the size parameter.

Type: JobSample object

LogGroupName

The name of an Amazon CloudWatch log group, where the job writes diagnostic messages when it runs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

LogSubscription

The current status of Amazon CloudWatch logging for the job run.

Type: String

Valid Values: `ENABLE | DISABLE`

Outputs

One or more output artifacts from a job run.

Type: Array of Output objects

Array Members: Minimum number of 1 item.

ProfileConfiguration

Configuration for profile jobs. Used to select columns, do evaluations, and override default parameters of evaluations. When configuration is null, the profile job will run with default settings.

Type: ProfileConfiguration object

RecipeReference

Represents the name and version of a DataBrew recipe.

Type: RecipeReference object

RunId

The unique identifier of the job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

StartedBy

The Amazon Resource Name (ARN) of the user who started the job run.

Type: String

StartedOn

The date and time when the job run began.

Type: Timestamp

State

The current state of the job run entity itself.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT`

ValidationConfigurations

List of validation configurations that are applied to the profile job.

Type: Array of ValidationConfiguration objects

Array Members: Minimum number of 1 item.

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

DescribeProject

Returns the definition of a specific DataBrew project.

Request Syntax

```
GET /projects/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the project to be described.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CreateDate": number,
   "CreatedBy": "string",
   "DatasetName": "string",
   "LastModifiedBy": "string",
   "LastModifiedDate": number,
   "Name": "string",
   "OpenDate": number,
   "OpenedBy": "string",
   "RecipeName": "string",
   "ResourceArn": "string",
```

```
   "RoleArn": "string",
   "Sample": {
      "Size": number,
      "Type": "string"
   },
   "SessionStatus": "string",
   "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.

Name

The name of the project.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

CreateDate

The date and time that the project was created.

Type: Timestamp

CreatedBy

The identifier (user name) of the user who created the project.

Type: String

DatasetName

The dataset associated with the project.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

LastModifiedBy

The identifier (user name) of the user who last modified the project.

Type: String

LastModifiedDate

The date and time that the project was last modified.

Type: Timestamp

OpenDate

The date and time when the project was opened.

Type: Timestamp

OpenedBy

The identifier (user name) of the user that opened the project for use.

Type: String

RecipeName

The recipe associated with this job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

ResourceArn

The Amazon Resource Name (ARN) of the project.

Type: String

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

RoleArn

The ARN of the Amazon Identity and Access Management (IAM) role to be assumed when DataBrew runs the job.

Type: String

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

Sample

Represents the sample size and sampling type for DataBrew to use for interactive data analysis.

Type: Sample object

SessionStatus

Describes the current state of the session:

- `PROVISIONING` - allocating resources for the session.
- `INITIALIZING` - getting the session ready for first use.
- `ASSIGNED` - the session is ready for use.

Type: String

Valid Values: `ASSIGNED | FAILED | INITIALIZING | PROVISIONING | READY | RECYCLING | ROTATING | TERMINATED | TERMINATING | UPDATING`

Tags

Metadata tags associated with this project.

Type: String to string map

Map Entries: 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

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

DescribeRecipe

Returns the definition of a specific DataBrew recipe corresponding to a particular version.

Request Syntax

```
GET /recipes/Name?recipeVersion=RecipeVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the recipe to be described.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

RecipeVersion

The recipe version identifier. If this parameter isn't specified, then the latest published version is returned.

Length Constraints: Minimum length of 1. Maximum length of 16.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CreateDate": number,
   "CreatedBy": "string",
   "Description": "string",
```

```
   "LastModifiedBy": "string",
   "LastModifiedDate": number,
   "Name": "string",
   "ProjectName": "string",
   "PublishedBy": "string",
   "PublishedDate": number,
   "RecipeVersion": "string",
   "ResourceArn": "string",
   "Steps": [
      {
         "Action": {
            "Operation": "string",
            "Parameters": {
               "string" : "string"
            }
         },
         "ConditionExpressions": [
            {
               "Condition": "string",
               "TargetColumn": "string",
               "Value": "string"
            }
         ]
      }
   ],
   "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.

Name

The name of the recipe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

CreateDate

The date and time that the recipe was created.

Type: Timestamp

CreatedBy

The identifier (user name) of the user who created the recipe.

Type: String

Description

The description of the recipe.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

LastModifiedBy

The identifier (user name) of the user who last modified the recipe.

Type: String

LastModifiedDate

The date and time that the recipe was last modified.

Type: Timestamp

ProjectName

The name of the project associated with this recipe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

PublishedBy

The identifier (user name) of the user who last published the recipe.

Type: String

PublishedDate

The date and time when the recipe was last published.

Type: Timestamp

RecipeVersion

The recipe version identifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16.

ResourceArn

The ARN of the recipe.

Type: String

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

Steps

One or more steps to be performed by the recipe. Each step consists of an action, and the conditions under which the action should succeed.

Type: Array of RecipeStep objects

Tags

Metadata tags associated with this project.

Type: String to string map

Map Entries: 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

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

DescribeRuleset

Retrieves detailed information about the ruleset.

Request Syntax

```
GET /rulesets/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the ruleset to be described.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CreateDate": number,
   "CreatedBy": "string",
   "Description": "string",
   "LastModifiedBy": "string",
   "LastModifiedDate": number,
   "Name": "string",
   "ResourceArn": "string",
   "Rules": [
      {
         "CheckExpression": "string",
```

```
         "ColumnSelectors": [
            {
               "Name": "string",
               "Regex": "string"
            }
         ],
         "Disabled": boolean,
         "Name": "string",
         "SubstitutionMap": {
            "string" : "string"
         },
         "Threshold": {
            "Type": "string",
            "Unit": "string",
            "Value": number
         }
      }
   ],
   "Tags": {
      "string" : "string"
   },
   "TargetArn": "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.

Name

The name of the ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

CreateDate

The date and time that the ruleset was created.

Type: Timestamp

CreatedBy

The Amazon Resource Name (ARN) of the user who created the ruleset.

Type: String

Description

The description of the ruleset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

LastModifiedBy

The Amazon Resource Name (ARN) of the user who last modified the ruleset.

Type: String

LastModifiedDate

The modification date and time of the ruleset.

Type: Timestamp

ResourceArn

The Amazon Resource Name (ARN) for the ruleset.

Type: String

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

Rules

A list of rules that are defined with the ruleset. A rule includes one or more checks to be validated on a DataBrew dataset.

Type: Array of Rule objects

Array Members: Minimum number of 1 item.

Tags

Metadata tags that have been applied to the ruleset.

Type: String to string map

Map Entries: 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.

TargetArn

The Amazon Resource Name (ARN) of a resource (dataset) that the ruleset is associated with.

Type: String

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

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3

- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

DescribeSchedule

Returns the definition of a specific DataBrew schedule.

Request Syntax

```
GET /schedules/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the schedule to be described.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CreateDate": number,
   "CreatedBy": "string",
   "CronExpression": "string",
   "JobNames": [ "string" ],
   "LastModifiedBy": "string",
   "LastModifiedDate": number,
   "Name": "string",
   "ResourceArn": "string",
   "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.

Name

The name of the schedule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

CreateDate

The date and time that the schedule was created.

Type: Timestamp

CreatedBy

The identifier (user name) of the user who created the schedule.

Type: String

CronExpression

The date or dates and time or times when the jobs are to be run for the schedule. For more information, see Cron expressions in the *Amazon Glue DataBrew Developer Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

JobNames

The name or names of one or more jobs to be run by using the schedule.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 240.

LastModifiedBy

The identifier (user name) of the user who last modified the schedule.

Type: String

LastModifiedDate

The date and time that the schedule was last modified.

Type: Timestamp

ResourceArn

The Amazon Resource Name (ARN) of the schedule.

Type: String

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

Tags

Metadata tags associated with this schedule.

Type: String to string map

Map Entries: 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

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

ListDatasets

Lists all of the DataBrew datasets.

Request Syntax

```
GET /datasets?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return in this request.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token returned by a previous call to retrieve the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 2000.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Datasets": [
      {
         "AccountId": "string",
         "CreateDate": number,
         "CreatedBy": "string",
         "Format": "string",
         "FormatOptions": {
            "Csv": {
```

```
            "Delimiter": "string",
            "HeaderRow": boolean
         },
         "Excel": {
            "HeaderRow": boolean,
            "SheetIndexes": [ number ],
            "SheetNames": [ "string" ]
         },
         "Json": {
            "MultiLine": boolean
         }
      },
      "Input": {
         "DatabaseInputDefinition": {
            "DatabaseTableName": "string",
            "GlueConnectionName": "string",
            "QueryString": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "DataCatalogInputDefinition": {
            "CatalogId": "string",
            "DatabaseName": "string",
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "Metadata": {
            "SourceArn": "string"
         },
         "S3InputDefinition": {
            "Bucket": "string",
            "BucketOwner": "string",
            "Key": "string"
         }
      },
      "LastModifiedBy": "string",
      "LastModifiedDate": number,
```

```
         "Name": "string",
         "PathOptions": {
            "FilesLimit": {
               "MaxFiles": number,
               "Order": "string",
               "OrderedBy": "string"
            },
            "LastModifiedDateCondition": {
               "Expression": "string",
               "ValuesMap": {
                  "string" : "string"
               }
            },
            "Parameters": {
               "string" : {
                  "CreateColumn": boolean,
                  "DatetimeOptions": {
                     "Format": "string",
                     "LocaleCode": "string",
                     "TimezoneOffset": "string"
                  },
                  "Filter": {
                     "Expression": "string",
                     "ValuesMap": {
                        "string" : "string"
                     }
                  },
                  "Name": "string",
                  "Type": "string"
               }
            }
         },
         "ResourceArn": "string",
         "Source": "string",
         "Tags": {
            "string" : "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.

Datasets

A list of datasets that are defined.

Type: Array of Dataset objects

NextToken

A token that you can use in a subsequent call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2000.

Errors

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

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

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

ListJobRuns

Lists all of the previous runs of a particular DataBrew job.

Request Syntax

```
GET /jobs/Name/jobRuns?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return in this request.

Valid Range: Minimum value of 1. Maximum value of 100.

Name

The name of the job.

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

NextToken

The token returned by a previous call to retrieve the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 2000.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "JobRuns": [
```

```
{
   "Attempt": number,
   "CompletedOn": number,
   "DatabaseOutputs": [
      {
         "DatabaseOptions": {
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "DatabaseOutputMode": "string",
         "GlueConnectionName": "string"
      }
   ],
   "DataCatalogOutputs": [
      {
         "CatalogId": "string",
         "DatabaseName": "string",
         "DatabaseOptions": {
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "Overwrite": boolean,
         "S3Options": {
            "Location": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "TableName": "string"
      }
   ],
   "DatasetName": "string",
   "ErrorMessage": "string",
   "ExecutionTime": number,
   "JobName": "string",
```

```
         "JobSample": {
            "Mode": "string",
            "Size": number
         },
         "LogGroupName": "string",
         "LogSubscription": "string",
         "Outputs": [
            {
               "CompressionFormat": "string",
               "Format": "string",
               "FormatOptions": {
                  "Csv": {
                     "Delimiter": "string"
                  }
               },
               "Location": {
                  "Bucket": "string",
                  "BucketOwner": "string",
                  "Key": "string"
               },
               "MaxOutputFiles": number,
               "Overwrite": boolean,
               "PartitionColumns": [ "string" ]
            }
         ],
         "RecipeReference": {
            "Name": "string",
            "RecipeVersion": "string"
         },
         "RunId": "string",
         "StartedBy": "string",
         "StartedOn": number,
         "State": "string",
         "ValidationConfigurations": [
            {
               "RulesetArn": "string",
               "ValidationMode": "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.

JobRuns

A list of job runs that have occurred for the specified job.

Type: Array of JobRun objects

NextToken

A token that you can use in a subsequent call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2000.

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2

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

ListJobs

Lists all of the DataBrew jobs that are defined.

Request Syntax

```
GET /jobs?
datasetName=DatasetName&maxResults=MaxResults&nextToken=NextToken&projectName=ProjectName
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DatasetName

The name of a dataset. Using this parameter indicates to return only those jobs that act on the specified dataset.

Length Constraints: Minimum length of 1. Maximum length of 255.

MaxResults

The maximum number of results to return in this request.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

A token generated by DataBrew that specifies where to continue pagination if a previous request was truncated. To get the next set of pages, pass in the NextToken value from the response object of the previous page call.

Length Constraints: Minimum length of 1. Maximum length of 2000.

ProjectName

The name of a project. Using this parameter indicates to return only those jobs that are associated with the specified project.

Length Constraints: Minimum length of 1. Maximum length of 255.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Jobs": [
      {
         "AccountId": "string",
         "CreateDate": number,
         "CreatedBy": "string",
         "DatabaseOutputs": [
            {
               "DatabaseOptions": {
                  "TableName": "string",
                  "TempDirectory": {
                     "Bucket": "string",
                     "BucketOwner": "string",
                     "Key": "string"
                  }
               },
               "DatabaseOutputMode": "string",
               "GlueConnectionName": "string"
            }
         ],
         "DataCatalogOutputs": [
            {
               "CatalogId": "string",
               "DatabaseName": "string",
               "DatabaseOptions": {
                  "TableName": "string",
                  "TempDirectory": {
                     "Bucket": "string",
                     "BucketOwner": "string",
                     "Key": "string"
                  }
               },
               "Overwrite": boolean,
               "S3Options": {
```

```
            "Location": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "TableName": "string"
      }
   ],
   "DatasetName": "string",
   "EncryptionKeyArn": "string",
   "EncryptionMode": "string",
   "JobSample": {
      "Mode": "string",
      "Size": number
   },
   "LastModifiedBy": "string",
   "LastModifiedDate": number,
   "LogSubscription": "string",
   "MaxCapacity": number,
   "MaxRetries": number,
   "Name": "string",
   "Outputs": [
      {
         "CompressionFormat": "string",
         "Format": "string",
         "FormatOptions": {
            "Csv": {
               "Delimiter": "string"
            }
         },
         "Location": {
            "Bucket": "string",
            "BucketOwner": "string",
            "Key": "string"
         },
         "MaxOutputFiles": number,
         "Overwrite": boolean,
         "PartitionColumns": [ "string" ]
      }
   ],
   "ProjectName": "string",
   "RecipeReference": {
      "Name": "string",
```

```
            "RecipeVersion": "string"
         },
         "ResourceArn": "string",
         "RoleArn": "string",
         "Tags": {
            "string" : "string"
         },
         "Timeout": number,
         "Type": "string",
         "ValidationConfigurations": [
            {
               "RulesetArn": "string",
               "ValidationMode": "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.

Jobs

A list of jobs that are defined.

Type: Array of Job objects

NextToken

A token that you can use in a subsequent call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2000.

Errors

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

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

ListProjects

Lists all of the DataBrew projects that are defined.

Request Syntax

```
GET /projects?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return in this request.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token returned by a previous call to retrieve the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 2000.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "NextToken": "string",
   "Projects": [
      {
         "AccountId": "string",
         "CreateDate": number,
         "CreatedBy": "string",
```

```
         "DatasetName": "string",
         "LastModifiedBy": "string",
         "LastModifiedDate": number,
         "Name": "string",
         "OpenDate": number,
         "OpenedBy": "string",
         "RecipeName": "string",
         "ResourceArn": "string",
         "RoleArn": "string",
         "Sample": {
            "Size": number,
            "Type": "string"
         },
         "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.

Projects

A list of projects that are defined .

Type: Array of Project objects

NextToken

A token that you can use in a subsequent call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2000.

Errors

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

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

ListRecipes

Lists all of the DataBrew recipes that are defined.

Request Syntax

```
GET /recipes?maxResults=MaxResults&nextToken=NextToken&recipeVersion=RecipeVersion
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return in this request.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token returned by a previous call to retrieve the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 2000.

RecipeVersion

Return only those recipes with a version identifier of `LATEST_WORKING` or `LATEST_PUBLISHED`. If `RecipeVersion` is omitted, `ListRecipes` returns all of the `LATEST_PUBLISHED` recipe versions.

Valid values: `LATEST_WORKING` | `LATEST_PUBLISHED`

Length Constraints: Minimum length of 1. Maximum length of 16.

Request Body

The request does not have a request body.

Response Syntax

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

```
{
   "NextToken": "string",
   "Recipes": [
      {
         "CreateDate": number,
         "CreatedBy": "string",
         "Description": "string",
         "LastModifiedBy": "string",
         "LastModifiedDate": number,
         "Name": "string",
         "ProjectName": "string",
         "PublishedBy": "string",
         "PublishedDate": number,
         "RecipeVersion": "string",
         "ResourceArn": "string",
         "Steps": [
            {
               "Action": {
                  "Operation": "string",
                  "Parameters": {
                     "string" : "string"
                  }
               },
               "ConditionExpressions": [
                  {
                     "Condition": "string",
                     "TargetColumn": "string",
                     "Value": "string"
                  }
               ]
            }
         ],
         "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.

Recipes

A list of recipes that are defined.

Type: Array of Recipe objects

NextToken

A token that you can use in a subsequent call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2000.

Errors

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

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3

- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

ListRecipeVersions

Lists the versions of a particular DataBrew recipe, except for `LATEST_WORKING`.

Request Syntax

```
GET /recipeVersions?maxResults=MaxResults&name=Name&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return in this request.

Valid Range: Minimum value of 1. Maximum value of 100.

Name

The name of the recipe for which to return version information.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

NextToken

The token returned by a previous call to retrieve the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 2000.

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
   "NextToken": "string",
   "Recipes": [
      {
         "CreateDate": number,
         "CreatedBy": "string",
         "Description": "string",
         "LastModifiedBy": "string",
         "LastModifiedDate": number,
         "Name": "string",
         "ProjectName": "string",
         "PublishedBy": "string",
         "PublishedDate": number,
         "RecipeVersion": "string",
         "ResourceArn": "string",
         "Steps": [
            {
               "Action": {
                  "Operation": "string",
                  "Parameters": {
                     "string" : "string"
                  }
               },
               "ConditionExpressions": [
                  {
                     "Condition": "string",
                     "TargetColumn": "string",
                     "Value": "string"
                  }
               ]
            }
         ],
         "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.

Recipes

A list of versions for the specified recipe.

Type: Array of Recipe objects

NextToken

A token that you can use in a subsequent call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2000.

Errors

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

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

- Amazon SDK for Ruby V3

ListRulesets

List all rulesets available in the current account or rulesets associated with a specific resource (dataset).

Request Syntax

```
GET /rulesets?maxResults=MaxResults&nextToken=NextToken&targetArn=TargetArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return in this request.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

A token generated by DataBrew that specifies where to continue pagination if a previous request was truncated. To get the next set of pages, pass in the NextToken value from the response object of the previous page call.

Length Constraints: Minimum length of 1. Maximum length of 2000.

TargetArn

The Amazon Resource Name (ARN) of a resource (dataset). Using this parameter indicates to return only those rulesets that are associated with the specified resource.

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

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "NextToken": "string",
   "Rulesets": [
      {
         "AccountId": "string",
         "CreateDate": number,
         "CreatedBy": "string",
         "Description": "string",
         "LastModifiedBy": "string",
         "LastModifiedDate": number,
         "Name": "string",
         "ResourceArn": "string",
         "RuleCount": number,
         "Tags": {
            "string" : "string"
         },
         "TargetArn": "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.

Rulesets

A list of RulesetItem. RulesetItem contains meta data of a ruleset.

Type: Array of RulesetItem objects

NextToken

A token that you can use in a subsequent call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2000.

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

ListSchedules

Lists the DataBrew schedules that are defined.

Request Syntax

```
GET /schedules?jobName=JobName&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

JobName

The name of the job that these schedules apply to.

Length Constraints: Minimum length of 1. Maximum length of 240.

MaxResults

The maximum number of results to return in this request.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token returned by a previous call to retrieve the next set of results.

Length Constraints: Minimum length of 1. Maximum length of 2000.

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
   "NextToken": "string",
   "Schedules": [
      {
         "AccountId": "string",
         "CreateDate": number,
         "CreatedBy": "string",
         "CronExpression": "string",
         "JobNames": [ "string" ],
         "LastModifiedBy": "string",
         "LastModifiedDate": number,
         "Name": "string",
         "ResourceArn": "string",
         "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.

Schedules

A list of schedules that are defined.

Type: Array of Schedule objects

NextToken

A token that you can use in a subsequent call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2000.

Errors

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

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

ListTagsForResource

Lists all the tags for a DataBrew 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) string that uniquely identifies the DataBrew resource.

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

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 list of tags associated with the DataBrew resource.

Type: String to string map

Map Entries: 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.

InternalServerException

An internal service failure occurred.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++

- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

PublishRecipe

Publishes a new version of a DataBrew recipe.

Request Syntax

```
POST /recipes/Name/publishRecipe HTTP/1.1
Content-type: application/json

{
   "Description": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the recipe to be published.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description

A description of the recipe to be published, for this version of the recipe.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Response Syntax

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

{
   "Name": "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.

Name

The name of the recipe that you published.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

SendProjectSessionAction

Performs a recipe step within an interactive DataBrew session that's currently open.

Request Syntax

```
PUT /projects/Name/sendProjectSessionAction HTTP/1.1
Content-type: application/json

{
   "ClientSessionId": "string",
   "Preview": boolean,
   "RecipeStep": {
      "Action": {
         "Operation": "string",
         "Parameters": {
            "string" : "string"
         }
      },
      "ConditionExpressions": [
         {
            "Condition": "string",
            "TargetColumn": "string",
            "Value": "string"
         }
      ]
   },
   "StepIndex": number,
   "ViewFrame": {
      "Analytics": "string",
      "ColumnRange": number,
      "HiddenColumns": [ "string" ],
      "RowRange": number,
      "StartColumnIndex": number,
      "StartRowIndex": number
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the project to apply the action to.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request accepts the following data in JSON format.

ClientSessionId

A unique identifier for an interactive session that's currently open and ready for work. The action will be performed on this session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-]*`

Required: No

Preview

If true, the result of the recipe step will be returned, but not applied.

Type: Boolean

Required: No

RecipeStep

Represents a single step from a DataBrew recipe to be performed.

Type: RecipeStep object

Required: No

StepIndex

The index from which to preview a step. This index is used to preview the result of steps that have already been applied, so that the resulting view frame is from earlier in the view frame stack.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

ViewFrame

Represents the data being transformed during an action.

Type: ViewFrame object

Required: No

Response Syntax

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

{
   "ActionId": number,
   "Name": "string",
   "Result": "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.

Name

The name of the project that was affected by the action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

ActionId

A unique identifier for the action that was performed.

Type: Integer

Result

A message indicating the result of performing the action.

Type: String

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4
- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3

- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

StartJobRun

Runs a DataBrew job.

Request Syntax

```
POST /jobs/Name/startJobRun HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the job to be run.

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "RunId": "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.

RunId

A system-generated identifier for this particular job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4

- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

StartProjectSession

Creates an interactive session, enabling you to manipulate data in a DataBrew project.

Request Syntax

```
PUT /projects/Name/startProjectSession HTTP/1.1
Content-type: application/json

{
   "AssumeControl": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the project to act upon.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request accepts the following data in JSON format.

AssumeControl

A value that, if true, enables you to take control of a session, even if a different client is currently accessing the project.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "ClientSessionId": "string",
   "Name": "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.

Name

The name of the project to be acted upon.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

ClientSessionId

A system-generated identifier for the session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9-]*`

Errors

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

ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

StopJobRun

Stops a particular run of a job.

Request Syntax

```
POST /jobs/Name/jobRun/RunId/stopJobRun HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the job to be stopped.

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

RunId

The ID of the job run to be stopped.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "RunId": "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.

RunId

The ID of the job run that you stopped.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

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

TagResource

Adds metadata tags to a DataBrew resource, such as a dataset, project, recipe, job, or schedule.

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 DataBrew resource to which tags should be added. The value for this parameter is an Amazon Resource Name (ARN). For DataBrew, you can tag a dataset, a job, a project, or a recipe.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

Tags

One or more tags to be assigned to the resource.

Type: String to string map

Map Entries: 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.

InternalServerException

An internal service failure occurred.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2
- Amazon SDK for .NET V4

- Amazon SDK for C++
- Amazon SDK for Go v2
- Amazon SDK for Java V2
- Amazon SDK for JavaScript V3
- Amazon SDK for Kotlin
- Amazon SDK for PHP V3
- Amazon SDK for Python (Boto3)
- Amazon SDK for Ruby V3

UntagResource

Removes metadata tags from a DataBrew resource.

Request Syntax

```
DELETE /tags/ResourceArn?tagKeys=TagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

A DataBrew resource from which you want to remove a tag or tags. The value for this parameter is an Amazon Resource Name (ARN).

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

Required: Yes

TagKeys

The tag keys (names) of one or more tags to be removed.

Array Members: Minimum number of 1 item. Maximum number of 200 items.

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.

InternalServerException

An internal service failure occurred.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

- Amazon SDK for Ruby V3

UpdateDataset

Modifies the definition of an existing DataBrew dataset.

Request Syntax

```
PUT /datasets/Name HTTP/1.1
Content-type: application/json

{
   "Format": "string",
   "FormatOptions": {
      "Csv": {
         "Delimiter": "string",
         "HeaderRow": boolean
      },
      "Excel": {
         "HeaderRow": boolean,
         "SheetIndexes": [ number ],
         "SheetNames": [ "string" ]
      },
      "Json": {
         "MultiLine": boolean
      }
   },
   "Input": {
      "DatabaseInputDefinition": {
         "DatabaseTableName": "string",
         "GlueConnectionName": "string",
         "QueryString": "string",
         "TempDirectory": {
            "Bucket": "string",
            "BucketOwner": "string",
            "Key": "string"
         }
      },
      "DataCatalogInputDefinition": {
         "CatalogId": "string",
         "DatabaseName": "string",
         "TableName": "string",
         "TempDirectory": {
            "Bucket": "string",
            "BucketOwner": "string",
```

```
            "Key": "string"
         }
      },
      "Metadata": {
         "SourceArn": "string"
      },
      "S3InputDefinition": {
         "Bucket": "string",
         "BucketOwner": "string",
         "Key": "string"
      }
   },
   "PathOptions": {
      "FilesLimit": {
         "MaxFiles": number,
         "Order": "string",
         "OrderedBy": "string"
      },
      "LastModifiedDateCondition": {
         "Expression": "string",
         "ValuesMap": {
            "string" : "string"
         }
      },
      "Parameters": {
         "string" : {
            "CreateColumn": boolean,
            "DatetimeOptions": {
               "Format": "string",
               "LocaleCode": "string",
               "TimezoneOffset": "string"
            },
            "Filter": {
               "Expression": "string",
               "ValuesMap": {
                  "string" : "string"
               }
            },
            "Name": "string",
            "Type": "string"
         }
      }
   }
```

```
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the dataset to be updated.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Input

Represents information on how DataBrew can find data, in either the Amazon Glue Data Catalog or Amazon S3.

Type: Input object

Required: Yes

Format

The file format of a dataset that is created from an Amazon S3 file or folder.

Type: String

Valid Values: `CSV | JSON | PARQUET | EXCEL | ORC`

Required: No

FormatOptions

Represents a set of options that define the structure of either comma-separated value (CSV), Excel, or JSON input.

Type: FormatOptions object

Required: No

PathOptions

A set of options that defines how DataBrew interprets an Amazon S3 path of the dataset.

Type: PathOptions object

Required: No

Response Syntax

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

{
   "Name": "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.

Name

The name of the dataset that you updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

AccessDeniedException

Access to the specified resource was denied.

HTTP Status Code: 403

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

UpdateProfileJob

Modifies the definition of an existing profile job.

Request Syntax

```
PUT /profileJobs/Name HTTP/1.1
Content-type: application/json

{
   "Configuration": {
      "ColumnStatisticsConfigurations": [
         {
            "Selectors": [
               {
                  "Name": "string",
                  "Regex": "string"
               }
            ],
            "Statistics": {
               "IncludedStatistics": [ "string" ],
               "Overrides": [
                  {
                     "Parameters": {
                        "string" : "string"
                     },
                     "Statistic": "string"
                  }
               ]
            }
         }
      ],
      "DatasetStatisticsConfiguration": {
         "IncludedStatistics": [ "string" ],
         "Overrides": [
            {
               "Parameters": {
                  "string" : "string"
               },
               "Statistic": "string"
            }
         ]
      },
```

```
      "EntityDetectorConfiguration": {
         "AllowedStatistics": [
            {
               "Statistics": [ "string" ]
            }
         ],
         "EntityTypes": [ "string" ]
      },
      "ProfileColumns": [
         {
            "Name": "string",
            "Regex": "string"
         }
      ]
   },
   "EncryptionKeyArn": "string",
   "EncryptionMode": "string",
   "JobSample": {
      "Mode": "string",
      "Size": number
   },
   "LogSubscription": "string",
   "MaxCapacity": number,
   "MaxRetries": number,
   "OutputLocation": {
      "Bucket": "string",
      "BucketOwner": "string",
      "Key": "string"
   },
   "RoleArn": "string",
   "Timeout": number,
   "ValidationConfigurations": [
      {
         "RulesetArn": "string",
         "ValidationMode": "string"
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the job to be updated.

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

Request Body

The request accepts the following data in JSON format.

OutputLocation

Represents an Amazon S3 location (bucket name, bucket owner, and object key) where DataBrew can read input data, or write output from a job.

Type: S3Location object

Required: Yes

RoleArn

The Amazon Resource Name (ARN) of the Amazon Identity and Access Management (IAM) role to be assumed when DataBrew runs the job.

Type: String

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

Required: Yes

Configuration

Configuration for profile jobs. Used to select columns, do evaluations, and override default parameters of evaluations. When configuration is null, the profile job will run with default settings.

Type: ProfileConfiguration object

Required: No

EncryptionKeyArn

The Amazon Resource Name (ARN) of an encryption key that is used to protect the job.

Type: String

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

Required: No

EncryptionMode

The encryption mode for the job, which can be one of the following:

- `SSE-KMS` - Server-side encryption with keys managed by Amazon KMS.
- `SSE-S3` - Server-side encryption with keys managed by Amazon S3.

Type: String

Valid Values: `SSE-KMS | SSE-S3`

Required: No

JobSample

Sample configuration for Profile Jobs only. Determines the number of rows on which the Profile job will be executed. If a JobSample value is not provided for profile jobs, the default value will be used. The default value is CUSTOM_ROWS for the mode parameter and 20000 for the size parameter.

Type: JobSample object

Required: No

LogSubscription

Enables or disables Amazon CloudWatch logging for the job. If logging is enabled, CloudWatch writes one log stream for each job run.

Type: String

Valid Values: `ENABLE | DISABLE`

Required: No

MaxCapacity

The maximum number of compute nodes that DataBrew can use when the job processes data.

Type: Integer

Required: No

MaxRetries

The maximum number of times to retry the job after a job run fails.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Timeout

The job's timeout in minutes. A job that attempts to run longer than this timeout period ends with a status of `TIMEOUT`.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

ValidationConfigurations

List of validation configurations that are applied to the profile job.

Type: Array of ValidationConfiguration objects

Array Members: Minimum number of 1 item.

Required: No

Response Syntax

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

{
   "Name": "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.

Name

The name of the job that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Errors

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

AccessDeniedException

Access to the specified resource was denied.

HTTP Status Code: 403

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

- Amazon Command Line Interface V2

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

UpdateProject

Modifies the definition of an existing DataBrew project.

Request Syntax

```
PUT /projects/Name HTTP/1.1
Content-type: application/json

{
   "RoleArn": "string",
   "Sample": {
      "Size": number,
      "Type": "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the project to be updated.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request accepts the following data in JSON format.

RoleArn

The Amazon Resource Name (ARN) of the IAM role to be assumed for this request.

Type: String

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

Required: Yes

Sample

Represents the sample size and sampling type for DataBrew to use for interactive data analysis.

Type: Sample object

Required: No

Response Syntax

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

{
   "LastModifiedDate": number,
   "Name": "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.

Name

The name of the project that you updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

LastModifiedDate

The date and time that the project was last modified.

Type: Timestamp

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

UpdateRecipe

Modifies the definition of the `LATEST_WORKING` version of a DataBrew recipe.

Request Syntax

```
PUT /recipes/Name HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "Steps": [
      {
         "Action": {
            "Operation": "string",
            "Parameters": {
               "string" : "string"
            }
         },
         "ConditionExpressions": [
            {
               "Condition": "string",
               "TargetColumn": "string",
               "Value": "string"
            }
         ]
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the recipe to be updated.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description

A description of the recipe.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Steps

One or more steps to be performed by the recipe. Each step consists of an action, and the conditions under which the action should succeed.

Type: Array of RecipeStep objects

Required: No

Response Syntax

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

{
   "Name": "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.

Name

The name of the recipe that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

UpdateRecipeJob

Modifies the definition of an existing DataBrew recipe job.

Request Syntax

```
PUT /recipeJobs/Name HTTP/1.1
Content-type: application/json

{
   "DatabaseOutputs": [
      {
         "DatabaseOptions": {
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "DatabaseOutputMode": "string",
         "GlueConnectionName": "string"
      }
   ],
   "DataCatalogOutputs": [
      {
         "CatalogId": "string",
         "DatabaseName": "string",
         "DatabaseOptions": {
            "TableName": "string",
            "TempDirectory": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
         },
         "Overwrite": boolean,
         "S3Options": {
            "Location": {
               "Bucket": "string",
               "BucketOwner": "string",
               "Key": "string"
            }
```

```
         },
         "TableName": "string"
      }
   ],
   "EncryptionKeyArn": "string",
   "EncryptionMode": "string",
   "LogSubscription": "string",
   "MaxCapacity": number,
   "MaxRetries": number,
   "Outputs": [
      {
         "CompressionFormat": "string",
         "Format": "string",
         "FormatOptions": {
            "Csv": {
               "Delimiter": "string"
            }
         },
         "Location": {
            "Bucket": "string",
            "BucketOwner": "string",
            "Key": "string"
         },
         "MaxOutputFiles": number,
         "Overwrite": boolean,
         "PartitionColumns": [ "string" ]
      }
   ],
   "RoleArn": "string",
   "Timeout": number
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the job to update.

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

Request Body

The request accepts the following data in JSON format.

RoleArn

The Amazon Resource Name (ARN) of the Amazon Identity and Access Management (IAM) role to be assumed when DataBrew runs the job.

Type: String

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

Required: Yes

DatabaseOutputs

Represents a list of JDBC database output objects which defines the output destination for a DataBrew recipe job to write into.

Type: Array of DatabaseOutput objects

Array Members: Minimum number of 1 item.

Required: No

DataCatalogOutputs

One or more artifacts that represent the Amazon Glue Data Catalog output from running the job.

Type: Array of DataCatalogOutput objects

Array Members: Minimum number of 1 item.

Required: No

EncryptionKeyArn

The Amazon Resource Name (ARN) of an encryption key that is used to protect the job.

Type: String

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

Required: No

EncryptionMode

The encryption mode for the job, which can be one of the following:

- `SSE-KMS` - Server-side encryption with keys managed by Amazon KMS.
- `SSE-S3` - Server-side encryption with keys managed by Amazon S3.

Type: String

Valid Values: `SSE-KMS | SSE-S3`

Required: No

LogSubscription

Enables or disables Amazon CloudWatch logging for the job. If logging is enabled, CloudWatch writes one log stream for each job run.

Type: String

Valid Values: `ENABLE | DISABLE`

Required: No

MaxCapacity

The maximum number of nodes that DataBrew can consume when the job processes data.

Type: Integer

Required: No

MaxRetries

The maximum number of times to retry the job after a job run fails.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Outputs

One or more artifacts that represent the output from running the job.

Type: Array of Output objects

Array Members: Minimum number of 1 item.

Required: No

Timeout

The job's timeout in minutes. A job that attempts to run longer than this timeout period ends with a status of `TIMEOUT`.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Response Syntax

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

{
   "Name": "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.

Name

The name of the job that you updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Errors

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

AccessDeniedException

Access to the specified resource was denied.

HTTP Status Code: 403

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

UpdateRuleset

Updates specified ruleset.

Request Syntax

```
PUT /rulesets/Name HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "Rules": [
      {
         "CheckExpression": "string",
         "ColumnSelectors": [
            {
               "Name": "string",
               "Regex": "string"
            }
         ],
         "Disabled": boolean,
         "Name": "string",
         "SubstitutionMap": {
            "string" : "string"
         },
         "Threshold": {
            "Type": "string",
            "Unit": "string",
            "Value": number
         }
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the ruleset to be updated.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Rules

A list of rules that are defined with the ruleset. A rule includes one or more checks to be validated on a DataBrew dataset.

Type: Array of Rule objects

Array Members: Minimum number of 1 item.

Required: Yes

Description

The description of the ruleset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Response Syntax

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

{
   "Name": "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.

Name

The name of the updated ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

- Amazon SDK for Ruby V3

UpdateSchedule

Modifies the definition of an existing DataBrew schedule.

Request Syntax

```
PUT /schedules/Name HTTP/1.1
Content-type: application/json

{
   "CronExpression": "string",
   "JobNames": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the schedule to update.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Request Body

The request accepts the following data in JSON format.

CronExpression

The date or dates and time or times when the jobs are to be run. For more information, see Cron expressions in the *Amazon Glue DataBrew Developer Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

JobNames

The name or names of one or more jobs to be run for this schedule.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: No

Response Syntax

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

{
   "Name": "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.

Name

The name of the schedule that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

ResourceNotFoundException

One or more resources can't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota is exceeded.

HTTP Status Code: 402

ValidationException

The input parameters for this request failed validation.

HTTP Status Code: 400

See Also

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

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

Data Types

The Amazon Glue DataBrew 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:

- AllowedStatistics
- ColumnSelector
- ColumnStatisticsConfiguration
- ConditionExpression
- CsvOptions
- CsvOutputOptions
- DatabaseInputDefinition
- DatabaseOutput
- DatabaseTableOutputOptions
- DataCatalogInputDefinition
- DataCatalogOutput
- Dataset
- DatasetParameter
- DatetimeOptions
- EntityDetectorConfiguration
- ExcelOptions
- FilesLimit
- FilterExpression
- FormatOptions
- Input

- Job
- JobRun
- JobSample
- JsonOptions
- Metadata
- Output
- OutputFormatOptions
- PathOptions
- ProfileConfiguration
- Project
- Recipe
- RecipeAction
- RecipeReference
- RecipeStep
- RecipeVersionErrorDetail
- Rule
- RulesetItem
- S3Location
- S3TableOutputOptions
- Sample
- Schedule
- StatisticOverride
- StatisticsConfiguration
- Threshold
- ValidationConfiguration
- ViewFrame

AllowedStatistics

Configuration of statistics that are allowed to be run on columns that contain detected entities. When undefined, no statistics will be computed on columns that contain detected entities.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Statistics

One or more column statistics to allow for columns that contain detected entities.

Type: Array of strings

Array Members: Minimum number of 1 item.

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

Pattern: `[A-Z\_]+`

Required: Yes

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

ColumnSelector

Selector of a column from a dataset for profile job configuration. One selector includes either a column name or a regular expression.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Name

The name of a column from a dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

Regex

A regular expression for selecting a column from a dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

ColumnStatisticsConfiguration

Configuration for column evaluations for a profile job. ColumnStatisticsConfiguration can be used to select evaluations and override parameters of evaluations for particular columns.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Statistics

Configuration for evaluations. Statistics can be used to select evaluations and override parameters of evaluations.

Type: StatisticsConfiguration object

Required: Yes

Selectors

List of column selectors. Selectors can be used to select columns from the dataset. When selectors are undefined, configuration will be applied to all supported columns.

Type: Array of ColumnSelector objects

Array Members: Minimum number of 1 item.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

ConditionExpression

Represents an individual condition that evaluates to true or false.

Conditions are used with recipe actions. The action is only performed for column values where the condition evaluates to true.

If a recipe requires more than one condition, then the recipe must specify multiple `ConditionExpression` elements. Each condition is applied to the rows in a dataset first, before the recipe action is performed.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Condition

A specific condition to apply to a recipe action. For more information, see Recipe structure in the *Amazon Glue DataBrew Developer Guide*.

Type: String

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

Pattern: `[A-Z\_]+`

Required: Yes

TargetColumn

A column to apply this condition to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

Value

A value that the condition must evaluate to for the condition to succeed.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

CsvOptions

Represents a set of options that define how DataBrew will read a comma-separated value (CSV) file when creating a dataset from that file.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Delimiter

A single character that specifies the delimiter being used in the CSV file.

Type: String

Length Constraints: Fixed length of 1.

Required: No

HeaderRow

A variable that specifies whether the first row in the file is parsed as the header. If this value is false, column names are auto-generated.

Type: Boolean

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

CsvOutputOptions

Represents a set of options that define how DataBrew will write a comma-separated value (CSV) file.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Delimiter

A single character that specifies the delimiter used to create CSV job output.

Type: String

Length Constraints: Fixed length of 1.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

DatabaseInputDefinition

Connection information for dataset input files stored in a database.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

GlueConnectionName

The Amazon Glue Connection that stores the connection information for the target database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

DatabaseTableName

The table within the target database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

QueryString

Custom SQL to run against the provided Amazon Glue connection. This SQL will be used as the input for DataBrew projects and jobs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10000.

Required: No

TempDirectory

Represents an Amazon S3 location (bucket name, bucket owner, and object key) where DataBrew can read input data, or write output from a job.

Type: S3Location object

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

DatabaseOutput

Represents a JDBC database output object which defines the output destination for a DataBrew recipe job to write into.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

DatabaseOptions

Represents options that specify how and where DataBrew writes the database output generated by recipe jobs.

Type: DatabaseTableOutputOptions object

Required: Yes

GlueConnectionName

The Amazon Glue connection that stores the connection information for the target database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

DatabaseOutputMode

The output mode to write into the database. Currently supported option: NEW_TABLE.

Type: String

Valid Values: `NEW_TABLE`

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

DatabaseTableOutputOptions

Represents options that specify how and where DataBrew writes the database output generated by recipe jobs.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

TableName

A prefix for the name of a table DataBrew will create in the database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

TempDirectory

Represents an Amazon S3 location (bucket name and object key) where DataBrew can store intermediate results.

Type: S3Location object

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

DataCatalogInputDefinition

Represents how metadata stored in the Amazon Glue Data Catalog is defined in a DataBrew dataset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

DatabaseName

The name of a database in the Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

TableName

The name of a database table in the Data Catalog. This table corresponds to a DataBrew dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

CatalogId

The unique identifier of the Amazon Web Services account that holds the Data Catalog that stores the data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

TempDirectory

Represents an Amazon location where DataBrew can store intermediate results.

Type: S3Location object

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

DataCatalogOutput

Represents options that specify how and where in the Amazon Glue Data Catalog DataBrew writes the output generated by recipe jobs.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

DatabaseName

The name of a database in the Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

TableName

The name of a table in the Data Catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

CatalogId

The unique identifier of the Amazon Web Services account that holds the Data Catalog that stores the data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

DatabaseOptions

Represents options that specify how and where DataBrew writes the database output generated by recipe jobs.

Type: DatabaseTableOutputOptions object

Required: No

Overwrite

A value that, if true, means that any data in the location specified for output is overwritten with new output. Not supported with DatabaseOptions.

Type: Boolean

Required: No

S3Options

Represents options that specify how and where DataBrew writes the Amazon S3 output generated by recipe jobs.

Type: S3TableOutputOptions object

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Dataset

Represents a dataset that can be processed by DataBrew.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Input

Information on how DataBrew can find the dataset, in either the Amazon Glue Data Catalog or Amazon S3.

Type: Input object

Required: Yes

Name

The unique name of the dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

AccountId

The ID of the Amazon account that owns the dataset.

Type: String

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

Required: No

CreateDate

The date and time that the dataset was created.

Type: Timestamp

Required: No

CreatedBy

The Amazon Resource Name (ARN) of the user who created the dataset.

Type: String

Required: No

Format

The file format of a dataset that is created from an Amazon S3 file or folder.

Type: String

Valid Values: `CSV | JSON | PARQUET | EXCEL | ORC`

Required: No

FormatOptions

A set of options that define how DataBrew interprets the data in the dataset.

Type: FormatOptions object

Required: No

LastModifiedBy

The Amazon Resource Name (ARN) of the user who last modified the dataset.

Type: String

Required: No

LastModifiedDate

The last modification date and time of the dataset.

Type: Timestamp

Required: No

PathOptions

A set of options that defines how DataBrew interprets an Amazon S3 path of the dataset.

Type: PathOptions object

Required: No

ResourceArn

The unique Amazon Resource Name (ARN) for the dataset.

Type: String

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

Required: No

Source

The location of the data for the dataset, either Amazon S3 or the Amazon Glue Data Catalog.

Type: String

Valid Values: `S3 | DATA-CATALOG | DATABASE`

Required: No

Tags

Metadata tags that have been applied to the dataset.

Type: String to string map

Map Entries: 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

See Also

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

- Amazon SDK for C++

- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

DatasetParameter

Represents a dataset parameter that defines type and conditions for a parameter in the Amazon S3 path of the dataset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Name

The name of the parameter that is used in the dataset's Amazon S3 path.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Type

The type of the dataset parameter, can be one of a 'String', 'Number' or 'Datetime'.

Type: String

Valid Values: `Datetime | Number | String`

Required: Yes

CreateColumn

Optional boolean value that defines whether the captured value of this parameter should be used to create a new column in a dataset.

Type: Boolean

Required: No

DatetimeOptions

Additional parameter options such as a format and a timezone. Required for datetime parameters.

Type: DatetimeOptions object

Required: No

Filter

The optional filter expression structure to apply additional matching criteria to the parameter.

Type: FilterExpression object

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

DatetimeOptions

Represents additional options for correct interpretation of datetime parameters used in the Amazon S3 path of a dataset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Format

Required option, that defines the datetime format used for a date parameter in the Amazon S3 path. Should use only supported datetime specifiers and separation characters, all literal a-z or A-Z characters should be escaped with single quotes. E.g. "MM.dd.yyyy-'at'-HH:mm".

Type: String

Length Constraints: Minimum length of 2. Maximum length of 100.

Required: Yes

LocaleCode

Optional value for a non-US locale code, needed for correct interpretation of some date formats.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 100.

Pattern: `[A-Za-z0-9_\.#@\-]+`

Required: No

TimezoneOffset

Optional value for a timezone offset of the datetime parameter value in the Amazon S3 path. Shouldn't be used if Format for this parameter includes timezone fields. If no offset specified, UTC is assumed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6.

Pattern: `(Z|[-+](\d|\d{2}|\d{2}:?\d{2}))`

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

EntityDetectorConfiguration

Configuration of entity detection for a profile job. When undefined, entity detection is disabled.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

EntityTypes

Entity types to detect. Can be any of the following:

- USA_SSN
- EMAIL
- USA_ITIN
- USA_PASSPORT_NUMBER
- PHONE_NUMBER
- USA_DRIVING_LICENSE
- BANK_ACCOUNT
- CREDIT_CARD
- IP_ADDRESS
- MAC_ADDRESS
- USA_DEA_NUMBER
- USA_HCPCS_CODE
- USA_NATIONAL_PROVIDER_IDENTIFIER
- USA_NATIONAL_DRUG_CODE
- USA_HEALTH_INSURANCE_CLAIM_NUMBER
- USA_MEDICARE_BENEFICIARY_IDENTIFIER
- USA_CPT_CODE
- PERSON_NAME
- DATE

The Entity type group USA_ALL is also supported, and includes all of the above entity types except PERSON_NAME and DATE.

Type: Array of strings

Array Members: Minimum number of 1 item.

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

Pattern: `[A-Z_][A-Z\\d_]*`

Required: Yes

AllowedStatistics

Configuration of statistics that are allowed to be run on columns that contain detected entities. When undefined, no statistics will be computed on columns that contain detected entities.

Type: Array of AllowedStatistics objects

Array Members: Minimum number of 1 item.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

ExcelOptions

Represents a set of options that define how DataBrew will interpret a Microsoft Excel file when creating a dataset from that file.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

HeaderRow

A variable that specifies whether the first row in the file is parsed as the header. If this value is false, column names are auto-generated.

Type: Boolean

Required: No

SheetIndexes

One or more sheet numbers in the Excel file that will be included in the dataset.

Type: Array of integers

Array Members: Fixed number of 1 item.

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

SheetNames

One or more named sheets in the Excel file that will be included in the dataset.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 31.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

FilesLimit

Represents a limit imposed on number of Amazon S3 files that should be selected for a dataset from a connected Amazon S3 path.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

MaxFiles

The number of Amazon S3 files to select.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

Order

A criteria to use for Amazon S3 files sorting before their selection. By default uses DESCENDING order, i.e. most recent files are selected first. Another possible value is ASCENDING.

Type: String

Valid Values: `DESCENDING | ASCENDING`

Required: No

OrderedBy

A criteria to use for Amazon S3 files sorting before their selection. By default uses LAST_MODIFIED_DATE as a sorting criteria. Currently it's the only allowed value.

Type: String

Valid Values: `LAST_MODIFIED_DATE`

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

FilterExpression

Represents a structure for defining parameter conditions. Supported conditions are described here: Supported conditions for dynamic datasets in the *Amazon Glue DataBrew Developer Guide*.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Expression

The expression which includes condition names followed by substitution variables, possibly grouped and combined with other conditions. For example, "(starts_with :prefix1 or starts_with :prefix2) and (ends_with :suffix1 or ends_with :suffix2)". Substitution variables should start with ':' symbol.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 1024.

Pattern: `[<>0-9A-Za-z_.,:)(!= ]+`

Required: Yes

ValuesMap

The map of substitution variable names to their values used in this filter expression.

Type: String to string map

Key Length Constraints: Minimum length of 2. Maximum length of 128.

Key Pattern: `:[A-Za-z0-9_]+`

Value Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: Yes

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

FormatOptions

Represents a set of options that define the structure of either comma-separated value (CSV), Excel, or JSON input.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Csv

Options that define how CSV input is to be interpreted by DataBrew.

Type: CsvOptions object

Required: No

Excel

Options that define how Excel input is to be interpreted by DataBrew.

Type: ExcelOptions object

Required: No

Json

Options that define how JSON input is to be interpreted by DataBrew.

Type: JsonOptions object

Required: No

See Also

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

- Amazon SDK for C++

- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Input

Represents information on how DataBrew can find data, in either the Amazon Glue Data Catalog or Amazon S3.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

DatabaseInputDefinition

Connection information for dataset input files stored in a database.

Type: DatabaseInputDefinition object

Required: No

DataCatalogInputDefinition

The Amazon Glue Data Catalog parameters for the data.

Type: DataCatalogInputDefinition object

Required: No

Metadata

Contains additional resource information needed for specific datasets.

Type: Metadata object

Required: No

S3InputDefinition

The Amazon S3 location where the data is stored.

Type: S3Location object

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Job

Represents all of the attributes of a DataBrew job.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Name

The unique name of the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: Yes

AccountId

The ID of the Amazon account that owns the job.

Type: String

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

Required: No

CreateDate

The date and time that the job was created.

Type: Timestamp

Required: No

CreatedBy

The Amazon Resource Name (ARN) of the user who created the job.

Type: String

Required: No

DatabaseOutputs

Represents a list of JDBC database output objects which defines the output destination for a DataBrew recipe job to write into.

Type: Array of DatabaseOutput objects

Array Members: Minimum number of 1 item.

Required: No

DataCatalogOutputs

One or more artifacts that represent the Amazon Glue Data Catalog output from running the job.

Type: Array of DataCatalogOutput objects

Array Members: Minimum number of 1 item.

Required: No

DatasetName

A dataset that the job is to process.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

EncryptionKeyArn

The Amazon Resource Name (ARN) of an encryption key that is used to protect the job output. For more information, see Encrypting data written by DataBrew jobs

Type: String

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

Required: No

EncryptionMode

The encryption mode for the job, which can be one of the following:

- `SSE-KMS` - Server-side encryption with keys managed by Amazon KMS.
- `SSE-S3` - Server-side encryption with keys managed by Amazon S3.

Type: String

Valid Values: `SSE-KMS | SSE-S3`

Required: No

JobSample

A sample configuration for profile jobs only, which determines the number of rows on which the profile job is run. If a `JobSample` value isn't provided, the default value is used. The default value is CUSTOM_ROWS for the mode parameter and 20,000 for the size parameter.

Type: JobSample object

Required: No

LastModifiedBy

The Amazon Resource Name (ARN) of the user who last modified the job.

Type: String

Required: No

LastModifiedDate

The modification date and time of the job.

Type: Timestamp

Required: No

LogSubscription

The current status of Amazon CloudWatch logging for the job.

Type: String

Valid Values: `ENABLE | DISABLE`

Required: No

MaxCapacity

The maximum number of nodes that can be consumed when the job processes data.

Type: Integer

Required: No

MaxRetries

The maximum number of times to retry the job after a job run fails.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Outputs

One or more artifacts that represent output from running the job.

Type: Array of Output objects

Array Members: Minimum number of 1 item.

Required: No

ProjectName

The name of the project that the job is associated with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

RecipeReference

A set of steps that the job runs.

Type: RecipeReference object

Required: No

ResourceArn

The unique Amazon Resource Name (ARN) for the job.

Type: String

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

Required: No

RoleArn

The Amazon Resource Name (ARN) of the role to be assumed for this job.

Type: String

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

Required: No

Tags

Metadata tags that have been applied to the job.

Type: String to string map

Map Entries: 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

Timeout

The job's timeout in minutes. A job that attempts to run longer than this timeout period ends with a status of `TIMEOUT`.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Type

The job type of the job, which must be one of the following:

- `PROFILE` - A job to analyze a dataset, to determine its size, data types, data distribution, and more.
- `RECIPE` - A job to apply one or more transformations to a dataset.

Type: String

Valid Values: `PROFILE | RECIPE`

Required: No

ValidationConfigurations

List of validation configurations that are applied to the profile job.

Type: Array of ValidationConfiguration objects

Array Members: Minimum number of 1 item.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

JobRun

Represents one run of a DataBrew job.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Attempt

The number of times that DataBrew has attempted to run the job.

Type: Integer

Required: No

CompletedOn

The date and time when the job completed processing.

Type: Timestamp

Required: No

DatabaseOutputs

Represents a list of JDBC database output objects which defines the output destination for a DataBrew recipe job to write into.

Type: Array of DatabaseOutput objects

Array Members: Minimum number of 1 item.

Required: No

DataCatalogOutputs

One or more artifacts that represent the Amazon Glue Data Catalog output from running the job.

Type: Array of DataCatalogOutput objects

Array Members: Minimum number of 1 item.

Required: No

DatasetName

The name of the dataset for the job to process.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

ErrorMessage

A message indicating an error (if any) that was encountered when the job ran.

Type: String

Required: No

ExecutionTime

The amount of time, in seconds, during which a job run consumed resources.

Type: Integer

Required: No

JobName

The name of the job being processed during this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: No

JobSample

A sample configuration for profile jobs only, which determines the number of rows on which the profile job is run. If a `JobSample` value isn't provided, the default is used. The default value is CUSTOM_ROWS for the mode parameter and 20,000 for the size parameter.

Type: JobSample object

Required: No

LogGroupName

The name of an Amazon CloudWatch log group, where the job writes diagnostic messages when it runs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

LogSubscription

The current status of Amazon CloudWatch logging for the job run.

Type: String

Valid Values: `ENABLE | DISABLE`

Required: No

Outputs

One or more output artifacts from a job run.

Type: Array of Output objects

Array Members: Minimum number of 1 item.

Required: No

RecipeReference

The set of steps processed by the job.

Type: RecipeReference object

Required: No

RunId

The unique identifier of the job run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

StartedBy

The Amazon Resource Name (ARN) of the user who initiated the job run.

Type: String

Required: No

StartedOn

The date and time when the job run began.

Type: Timestamp

Required: No

State

The current state of the job run entity itself.

Type: String

Valid Values: `STARTING | RUNNING | STOPPING | STOPPED | SUCCEEDED | FAILED | TIMEOUT`

Required: No

ValidationConfigurations

List of validation configurations that are applied to the profile job run.

Type: Array of ValidationConfiguration objects

Array Members: Minimum number of 1 item.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

JobSample

A sample configuration for profile jobs only, which determines the number of rows on which the profile job is run. If a `JobSample` value isn't provided, the default is used. The default value is CUSTOM_ROWS for the mode parameter and 20,000 for the size parameter.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Mode

A value that determines whether the profile job is run on the entire dataset or a specified number of rows. This value must be one of the following:

- FULL_DATASET - The profile job is run on the entire dataset.
- CUSTOM_ROWS - The profile job is run on the number of rows specified in the `Size` parameter.

Type: String

Valid Values: `FULL_DATASET | CUSTOM_ROWS`

Required: No

Size

The `Size` parameter is only required when the mode is CUSTOM_ROWS. The profile job is run on the specified number of rows. The maximum value for size is Long.MAX_VALUE.

Long.MAX_VALUE = 9223372036854775807

Type: Long

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

JsonOptions

Represents the JSON-specific options that define how input is to be interpreted by Amazon Glue DataBrew.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

MultiLine

A value that specifies whether JSON input contains embedded new line characters.

Type: Boolean

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Metadata

Contains additional resource information needed for specific datasets.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

SourceArn

The Amazon Resource Name (ARN) associated with the dataset. Currently, DataBrew only supports ARNs from Amazon AppFlow.

Type: String

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

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Output

Represents options that specify how and where in Amazon S3 DataBrew writes the output generated by recipe jobs or profile jobs.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Location

The location in Amazon S3 where the job writes its output.

Type: S3Location object

Required: Yes

CompressionFormat

The compression algorithm used to compress the output text of the job.

Type: String

Valid Values: `GZIP | LZ4 | SNAPPY | BZIP2 | DEFLATE | LZO | BROTLI | ZSTD | ZLIB`

Required: No

Format

The data format of the output of the job.

Type: String

Valid Values: `CSV | JSON | PARQUET | GLUEPARQUET | AVRO | ORC | XML | TABLEAUHYPER`

Required: No

FormatOptions

Represents options that define how DataBrew formats job output files.

Type: OutputFormatOptions object

Required: No

MaxOutputFiles

Maximum number of files to be generated by the job and written to the output folder. For output partitioned by column(s), the MaxOutputFiles value is the maximum number of files per partition.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 999.

Required: No

Overwrite

A value that, if true, means that any data in the location specified for output is overwritten with new output.

Type: Boolean

Required: No

PartitionColumns

The names of one or more partition columns for the output of the job.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

OutputFormatOptions

Represents a set of options that define the structure of comma-separated (CSV) job output.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Csv

Represents a set of options that define the structure of comma-separated value (CSV) job output.

Type: CsvOutputOptions object

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

PathOptions

Represents a set of options that define how DataBrew selects files for a given Amazon S3 path in a dataset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

FilesLimit

If provided, this structure imposes a limit on a number of files that should be selected.

Type: FilesLimit object

Required: No

LastModifiedDateCondition

If provided, this structure defines a date range for matching Amazon S3 objects based on their LastModifiedDate attribute in Amazon S3.

Type: FilterExpression object

Required: No

Parameters

A structure that maps names of parameters used in the Amazon S3 path of a dataset to their definitions.

Type: String to DatasetParameter object map

Map Entries: Maximum number of 10 items.

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

ProfileConfiguration

Configuration for profile jobs. Configuration can be used to select columns, do evaluations, and override default parameters of evaluations. When configuration is undefined, the profile job will apply default settings to all supported columns.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

ColumnStatisticsConfigurations

List of configurations for column evaluations. ColumnStatisticsConfigurations are used to select evaluations and override parameters of evaluations for particular columns. When ColumnStatisticsConfigurations is undefined, the profile job will profile all supported columns and run all supported evaluations.

Type: Array of ColumnStatisticsConfiguration objects

Array Members: Minimum number of 1 item.

Required: No

DatasetStatisticsConfiguration

Configuration for inter-column evaluations. Configuration can be used to select evaluations and override parameters of evaluations. When configuration is undefined, the profile job will run all supported inter-column evaluations.

Type: StatisticsConfiguration object

Required: No

EntityDetectorConfiguration

Configuration of entity detection for a profile job. When undefined, entity detection is disabled.

Type: EntityDetectorConfiguration object

Required: No

ProfileColumns

List of column selectors. ProfileColumns can be used to select columns from the dataset. When ProfileColumns is undefined, the profile job will profile all supported columns.

Type: Array of ColumnSelector objects

Array Members: Minimum number of 1 item.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Project

Represents all of the attributes of a DataBrew project.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Name

The unique name of a project.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

RecipeName

The name of a recipe that will be developed during a project session.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

AccountId

The ID of the Amazon account that owns the project.

Type: String

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

Required: No

CreateDate

The date and time that the project was created.

Type: Timestamp

Required: No

CreatedBy

The Amazon Resource Name (ARN) of the user who crated the project.

Type: String

Required: No

DatasetName

The dataset that the project is to act upon.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

LastModifiedBy

The Amazon Resource Name (ARN) of the user who last modified the project.

Type: String

Required: No

LastModifiedDate

The last modification date and time for the project.

Type: Timestamp

Required: No

OpenDate

The date and time when the project was opened.

Type: Timestamp

Required: No

OpenedBy

The Amazon Resource Name (ARN) of the user that opened the project for use.

Type: String

Required: No

ResourceArn

The Amazon Resource Name (ARN) for the project.

Type: String

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

Required: No

RoleArn

The Amazon Resource Name (ARN) of the role that will be assumed for this project.

Type: String

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

Required: No

Sample

The sample size and sampling type to apply to the data. If this parameter isn't specified, then the sample consists of the first 500 rows from the dataset.

Type: Sample object

Required: No

Tags

Metadata tags that have been applied to the project.

Type: String to string map

Map Entries: 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

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Recipe

Represents one or more actions to be performed on a DataBrew dataset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Name

The unique name for the recipe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

CreateDate

The date and time that the recipe was created.

Type: Timestamp

Required: No

CreatedBy

The Amazon Resource Name (ARN) of the user who created the recipe.

Type: String

Required: No

Description

The description of the recipe.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

LastModifiedBy

The Amazon Resource Name (ARN) of the user who last modified the recipe.

Type: String

Required: No

LastModifiedDate

The last modification date and time of the recipe.

Type: Timestamp

Required: No

ProjectName

The name of the project that the recipe is associated with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

PublishedBy

The Amazon Resource Name (ARN) of the user who published the recipe.

Type: String

Required: No

PublishedDate

The date and time when the recipe was published.

Type: Timestamp

Required: No

RecipeVersion

The identifier for the version for the recipe. Must be one of the following:

- Numeric version (`X.Y`) - `X` and `Y` stand for major and minor version numbers. The maximum length of each is 6 digits, and neither can be negative values. Both `X` and `Y` are required, and "0.0" isn't a valid version.
- `LATEST_WORKING` - the most recent valid version being developed in a DataBrew project.
- `LATEST_PUBLISHED` - the most recent published version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16.

Required: No

ResourceArn

The Amazon Resource Name (ARN) for the recipe.

Type: String

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

Required: No

Steps

A list of steps that are defined by the recipe.

Type: Array of RecipeStep objects

Required: No

Tags

Metadata tags that have been applied to the recipe.

Type: String to string map

Map Entries: 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

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

RecipeAction

Represents a transformation and associated parameters that are used to apply a change to a DataBrew dataset. For more information, see Recipe actions reference.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Operation

The name of a valid DataBrew transformation to be performed on the data.

Type: String

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

Pattern: `[A-Z\_]+`

Required: Yes

Parameters

Contextual parameters for the transformation.

Type: String to string map

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

Key Pattern: `[A-Za-z0-9]+`

Value Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

RecipeReference

Represents the name and version of a DataBrew recipe.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Name

The name of the recipe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

RecipeVersion

The identifier for the version for the recipe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

RecipeStep

Represents a single step from a DataBrew recipe to be performed.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Action

The particular action to be performed in the recipe step.

Type: RecipeAction object

Required: Yes

ConditionExpressions

One or more conditions that must be met for the recipe step to succeed.

> **Note**
>
> All of the conditions in the array must be met. In other words, all of the conditions must be combined using a logical AND operation.

Type: Array of ConditionExpression objects

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2

- Amazon SDK for Ruby V3

RecipeVersionErrorDetail

Represents any errors encountered when attempting to delete multiple recipe versions.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

ErrorCode

The HTTP status code for the error.

Type: String

Pattern: `[1-5][0-9][0-9]`

Required: No

ErrorMessage

The text of the error message.

Type: String

Required: No

RecipeVersion

The identifier for the recipe version associated with this error.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Rule

Represents a single data quality requirement that should be validated in the scope of this dataset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

CheckExpression

The expression which includes column references, condition names followed by variable references, possibly grouped and combined with other conditions. For example, `(:col1 starts_with :prefix1 or :col1 starts_with :prefix2) and (:col1 ends_with :suffix1 or :col1 ends_with :suffix2)`. Column and value references are substitution variables that should start with the ':' symbol. Depending on the context, substitution variables' values can be either an actual value or a column name. These values are defined in the SubstitutionMap. If a CheckExpression starts with a column reference, then ColumnSelectors in the rule should be null. If ColumnSelectors has been defined, then there should be no column reference in the left side of a condition, for example, `is_between :val1 and :val2`.

For more information, see Available checks

Type: String

Length Constraints: Minimum length of 4. Maximum length of 1024.

Pattern: `[<>0-9A-Za-z_.,:)(!= ]+`

Required: Yes

Name

The name of the rule.

Type: String

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

Required: Yes

ColumnSelectors

List of column selectors. Selectors can be used to select columns using a name or regular expression from the dataset. Rule will be applied to selected columns.

Type: Array of ColumnSelector objects

Array Members: Minimum number of 1 item.

Required: No

Disabled

A value that specifies whether the rule is disabled. Once a rule is disabled, a profile job will not validate it during a job run. Default value is false.

Type: Boolean

Required: No

SubstitutionMap

The map of substitution variable names to their values used in a check expression. Variable names should start with a ':' (colon). Variable values can either be actual values or column names. To differentiate between the two, column names should be enclosed in backticks, for example, `":col1": "`Column A`".`

Type: String to string map

Key Length Constraints: Minimum length of 2. Maximum length of 128.

Key Pattern: `:[A-Za-z0-9_]+`

Value Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Threshold

The threshold used with a non-aggregate check expression. Non-aggregate check expressions will be applied to each row in a specific column, and the threshold will be used to determine whether the validation succeeds.

Type: Threshold object

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

RulesetItem

Contains metadata about the ruleset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Name

The name of the ruleset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

TargetArn

The Amazon Resource Name (ARN) of a resource (dataset) that the ruleset is associated with.

Type: String

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

Required: Yes

AccountId

The ID of the Amazon account that owns the ruleset.

Type: String

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

Required: No

CreateDate

The date and time that the ruleset was created.

Type: Timestamp

Required: No

CreatedBy

The Amazon Resource Name (ARN) of the user who created the ruleset.

Type: String

Required: No

Description

The description of the ruleset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

LastModifiedBy

The Amazon Resource Name (ARN) of the user who last modified the ruleset.

Type: String

Required: No

LastModifiedDate

The modification date and time of the ruleset.

Type: Timestamp

Required: No

ResourceArn

The Amazon Resource Name (ARN) for the ruleset.

Type: String

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

Required: No

RuleCount

The number of rules that are defined in the ruleset.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Tags

Metadata tags that have been applied to the ruleset.

Type: String to string map

Map Entries: 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

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

S3Location

Represents an Amazon S3 location (bucket name, bucket owner, and object key) where DataBrew can read input data, or write output from a job.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Bucket

The Amazon S3 bucket name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Required: Yes

BucketOwner

The Amazon account ID of the bucket owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: No

Key

The unique name of the object in the bucket.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1280.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

S3TableOutputOptions

Represents options that specify how and where DataBrew writes the Amazon S3 output generated by recipe jobs.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Location

Represents an Amazon S3 location (bucket name and object key) where DataBrew can write output from a job.

Type: S3Location object

Required: Yes

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Sample

Represents the sample size and sampling type for DataBrew to use for interactive data analysis.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Type

The way in which DataBrew obtains rows from a dataset.

Type: String

Valid Values: `FIRST_N | LAST_N | RANDOM`

Required: Yes

Size

The number of rows in the sample.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 5000.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Schedule

Represents one or more dates and times when a job is to run.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Name

The name of the schedule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

AccountId

The ID of the Amazon account that owns the schedule.

Type: String

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

Required: No

CreateDate

The date and time that the schedule was created.

Type: Timestamp

Required: No

CreatedBy

The Amazon Resource Name (ARN) of the user who created the schedule.

Type: String

Required: No

CronExpression

The dates and times when the job is to run. For more information, see Cron expressions in the *Amazon Glue DataBrew Developer Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

JobNames

A list of jobs to be run, according to the schedule.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 240.

Required: No

LastModifiedBy

The Amazon Resource Name (ARN) of the user who last modified the schedule.

Type: String

Required: No

LastModifiedDate

The date and time when the schedule was last modified.

Type: Timestamp

Required: No

ResourceArn

The Amazon Resource Name (ARN) of the schedule.

Type: String

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

Required: No

Tags

Metadata tags that have been applied to the schedule.

Type: String to string map

Map Entries: 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

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

StatisticOverride

Override of a particular evaluation for a profile job.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Parameters

A map that includes overrides of an evaluation's parameters.

Type: String to string map

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

Key Pattern: `[A-Za-z0-9]+`

Value Length Constraints: Minimum length of 1. Maximum length of 32768.

Required: Yes

Statistic

The name of an evaluation

Type: String

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

Pattern: `[A-Z\_]+`

Required: Yes

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

StatisticsConfiguration

Configuration of evaluations for a profile job. This configuration can be used to select evaluations and override the parameters of selected evaluations.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

IncludedStatistics

List of included evaluations. When the list is undefined, all supported evaluations will be included.

Type: Array of strings

Array Members: Minimum number of 1 item.

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

Pattern: `[A-Z\_]+`

Required: No

Overrides

List of overrides for evaluations.

Type: Array of StatisticOverride objects

Array Members: Minimum number of 1 item.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

Threshold

The threshold used with a non-aggregate check expression. The non-aggregate check expression will be applied to each row in a specific column. Then the threshold will be used to determine whether the validation succeeds.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

Value

The value of a threshold.

Type: Double

Valid Range: Minimum value of 0.

Required: Yes

Type

The type of a threshold. Used for comparison of an actual count of rows that satisfy the rule to the threshold value.

Type: String

Valid Values: `GREATER_THAN_OR_EQUAL | LESS_THAN_OR_EQUAL | GREATER_THAN | LESS_THAN`

Required: No

Unit

Unit of threshold value. Can be either a COUNT or PERCENTAGE of the full sample size used for validation.

Type: String

Valid Values: `COUNT | PERCENTAGE`

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

ValidationConfiguration

Configuration for data quality validation. Used to select the Rulesets and Validation Mode to be used in the profile job. When ValidationConfiguration is null, the profile job will run without data quality validation.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

RulesetArn

The Amazon Resource Name (ARN) for the ruleset to be validated in the profile job. The TargetArn of the selected ruleset should be the same as the Amazon Resource Name (ARN) of the dataset that is associated with the profile job.

Type: String

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

Required: Yes

ValidationMode

Mode of data quality validation. Default mode is “CHECK_ALL” which verifies all rules defined in the selected ruleset.

Type: String

Valid Values: `CHECK_ALL`

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon SDK for Ruby V3

ViewFrame

Represents the data being transformed during an action.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

StartColumnIndex

The starting index for the range of columns to return in the view frame.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

Analytics

Controls if analytics computation is enabled or disabled. Enabled by default.

Type: String

Valid Values: `ENABLE | DISABLE`

Required: No

ColumnRange

The number of columns to include in the view frame, beginning with the `StartColumnIndex` value and ignoring any columns in the `HiddenColumns` list.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 20.

Required: No

HiddenColumns

A list of columns to hide in the view frame.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

RowRange

The number of rows to include in the view frame, beginning with the `StartRowIndex` value.

Type: Integer

Required: No

StartRowIndex

The starting index for the range of rows to return in the view frame.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

See Also

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

- Amazon SDK for C++
- Amazon SDK for Java V2
- Amazon 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 Amazon 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 Amazon 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 Amazon 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 Amazon Security Token Service (Amazon STS). For a list of services that support temporary security credentials from Amazon STS, see Amazon Web Services services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from Amazon 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 Amazon 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 Amazon 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 Amazon standards. Verify that you're using valid Amazon 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 Amazon 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 Amazon 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 Amazon 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 Amazon 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