# Package 'connector.databricks'

September 5, 2025

```
Title Expand 'connector' Package for 'Databricks' Tables and Volumes
Version 0.1.0
Description Expands the 'connector' <a href="https:">https:</a>
     //github.com/NovoNordisk-OpenSource/connector> package and provides a convenient
     interface for accessing and interacting with 'Databricks' <a href="https:">https:</a>
     //www.databricks.com> volumes and
     tables directly from R.
License Apache License (>= 2)
URL https://novonordisk-opensource.github.io/connector.databricks/,
     https://github.com/NovoNordisk-OpenSource/connector.databricks
BugReports https://github.com/NovoNordisk-OpenSource/connector.databricks/issues
Imports arrow, brickster (>= 0.2.7), checkmate, cli, connector (>=
     1.0.0), DBI, dbplyr, dplyr, fs, hms, odbc (\geq 1.4.0), purrr, R6
     (>= 2.4.0), rlang, withr, zephyr
Suggests glue, knitr, mockery (>= 0.4.4), rmarkdown, testthat (>=
     3.2.3), tibble, whirl (>= 0.3.0)
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connector-options-databricks

Options for connector.databricks

# Description

Configuration options for the connector.databricks

### overwrite:

Overwrite existing content if it exists in the connector?

• Default: FALSE

• Option: connector.databricks.overwrite

• Environment: R\_CONNECTOR.DATABRICKS\_OVERWRITE

# verbosity\_level:

Verbosity level for functions in connector. See zephyr::verbosity\_level for details.

• Default: "verbose"

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- Option: connector.databricks.verbosity\_level
- Environment: R\_CONNECTOR.DATABRICKS\_VERBOSITY\_LEVEL

ConnectorDatabricksTable

Connector for connecting to Databricks using DBI

### **Description**

Extension of the connector::connector\_dbi making it easier to connect to, and work with tables in Databricks.

#### **Details**

All methods for ConnectorDatabricksTable object are working from the catalog and schema provided when initializing the connection. This means you only need to provide the table name when using the built in methods. If you want to access tables outside of the chosen schema, you can either retrieve the connection with ConnectorDatabricksTable\$conn or create a new connector.

When creating the connections to Databricks you either need to provide the sqlpath to Databricks cluster or the SQL warehouse you want to connect to. Authentication to databricks is handed by the odbc::databricks() driver and supports general use of personal access tokens and credentials through Posit Workbench. See also odbc::databricks() On more information on how the connection to Databricks is established.

### Super classes

```
connector::Connector -> connector::ConnectorDBI -> ConnectorDatabricksTable
```

#### **Active bindings**

```
conn The DBI connection object of the connector catalog The catalog used in the connector schema The schema used in the connector
```

# Methods

#### **Public methods:**

- ConnectorDatabricksTable\$new()
- ConnectorDatabricksTable\$clone()

Method new(): Initialize the connection to Databricks

Usage:

ConnectorDatabricksTable\$new(http\_path, catalog, schema, extra\_class = NULL)

Arguments:

```
http_path character The path to the Databricks cluster or SQL warehouse you want to connect to catalog character The catalog to use schema character The schema to use extra_class character Extra class to assign to the new connector Returns: A ConnectorDatabricksTable object

Method clone(): The objects of this class are cloneable with this method.

Usage:
ConnectorDatabricksTable$clone(deep = FALSE)

Arguments:
deep Whether to make a deep clone.
```

# **Examples**

```
## Not run:
# Establish connection to your cluster
con_databricks <- ConnectorDatabricksTable$new(</pre>
  http_path = "path-to-cluster",
  catalog = "my_catalog",
  schema = "my_schema"
# List tables in my_schema
con_databricks$list_content()
# Read and write tables
con_databricks$write(mtcars, "my_mtcars_table")
con_databricks$read("my_mtcars_table")
# Use dplyr::tbl
con_databricks$tbl("my_mtcars_table")
# Remove table
con_databricks$remove("my_mtcars_table")
# Disconnect
con_databricks$disconnect()
## End(Not run)
```

ConnectorDatabricksVolume

Connector for databricks volume storage

### **Description**

The ConnectorDatabricksVolume class, built on top of connector::connector class. It is a file storage connector for accessing and manipulating files inside Databricks volumes.

### Super classes

```
connector::Connector->connector::ConnectorFS->ConnectorDatabricksVolume
```

#### **Active bindings**

```
path character Path to the file storage on Volume catalog character Databricks catalog schema character Databricks schema full_path character Full path to the file storage on Volume
```

### Methods

#### **Public methods:**

- ConnectorDatabricksVolume\$new()
- ConnectorDatabricksVolume\$clone()

Method new(): Initializes the connector for Databricks volume storage.

```
Usage:
ConnectorDatabricksVolume$new(
  full_path = NULL,
  catalog = NULL,
  schema = NULL,
  path = NULL,
  extra_class = NULL,
  force = FALSE,
)
Arguments:
full_path character Full path to the file storage in format catalog/schema/path. If NULL,
   catalog, schema, and path must be provided.
catalog character Databricks catalog
schema character Databricks schema
path character Path to the file storage
extra_class character Extra class to assign to the new connector.
```

force logical If TRUE, the volume will be created without asking if it does not exist. . . . Additional arguments passed to the initialize method of superclass

Returns: A new ConnectorDatabricksVolume object

**Method** clone(): The objects of this class are cloneable with this method.

```
Usage:
ConnectorDatabricksVolume$clone(deep = FALSE)
Arguments:
deep Whether to make a deep clone.
```

### **Examples**

```
## Not run:
# Create Volume file storage connector
cnt <- ConnectorDatabricksVolume$new(full_path = "catalog/schema/path")
cnt
# List content
cnt$list_content_cnt()
# Write to the connector
cnt$write_cnt(iris, "iris.rds")
# Check it is there
cnt$list_content_cnt()
# Read the result back
cnt$read_cnt("iris.rds") |>
head()
## End(Not run)
```

connector\_databricks\_table

Create ConnectorDatabricksTable connector

### **Description**

Initializes the connector for table type of storage. See ConnectorDatabricksTable for details.

```
connector_databricks_table(http_path, catalog, schema, extra_class = NULL)
```

### **Arguments**

http\_path character The path to the Databricks cluster or SQL warehouse you want to connect to
catalog character The catalog to use
schema character The schema to use
extra\_class character Extra class to assign to the new connector

#### **Details**

The extra\_class parameter allows you to create a subclass of the ConnectorDatabricksTable object. This can be useful if you want to create a custom connection object for easier dispatch of new s3 methods, while still inheriting the methods from the ConnectorDatabricksTable object.

#### Value

A new ConnectorDatabricksTable object

### **Examples**

```
## Not run:
# Establish connection to your cluster
con_databricks <- connector_databricks_table(</pre>
  http_path = "path-to-cluster",
  catalog = "my_catalog",
  schema = "my_schema"
# List tables in my_schema
con_databricks$list_content()
# Read and write tables
con_databricks$write(mtcars, "my_mtcars_table")
con_databricks$read("my_mtcars_table")
# Use dplyr::tbl
con_databricks$tbl("my_mtcars_table")
# Remove table
con_databricks$remove("my_mtcars_table")
# Disconnect
con_databricks$disconnect()
## End(Not run)
```

```
connector_databricks_volume
```

Create databricks volume connector

### **Description**

Create a new databricks volume connector object. See ConnectorDatabricksVolume for details. Initializes the connector for Databricks volume storage.

### Usage

```
connector_databricks_volume(
  full_path = NULL,
  catalog = NULL,
  schema = NULL,
  path = NULL,
  extra_class = NULL,
  force = FALSE,
   ...
)
```

### **Arguments**

full_path	Full path to the file storage in format catalog/schema/path. If NULL, catalog, schema, and path must be provided.
catalog	Databricks catalog
schema	Databricks schema
path	Path to the file storage
extra_class	Extra class to assign to the new connector.
force	If TRUE, the volume will be created without asking if it does not exist.
	Additional arguments passed to the connector::connector

### **Details**

The extra\_class parameter allows you to create a subclass of the ConnectorDatabricksVolume object. This can be useful if you want to create a custom connection object for easier dispatch of new s3 methods, while still inheriting the methods from the ConnectorDatabricksVolume object.

### Value

A new ConnectorDatabricksVolume object

create\_directory\_cnt 9

### **Examples**

### **Description**

Additional list content methods for Databricks connectors implemented for connector::create\_directory\_cnt():

• ConnectorDatabricksVolume: Reuses the connector::create\_directory\_cnt() method for ConnectorDatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector.

### Usage

```
create_directory_cnt(connector_object, name, open = TRUE, ...)
## S3 method for class 'ConnectorDatabricksVolume'
create_directory_cnt(connector_object, name, open = TRUE, ...)
```

### **Arguments**

connector\_object

Connector The connector object to use.

name character The name of the directory to create

open create a new connector object

... ConnectorDatabricksVolume: Additional parameters to pass to the brickster::db\_volume\_dir\_create

method

### Value

invisible connector\_object.

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disconnect\_cnt

Disconnect (close) the connection of the connector

### **Description**

Generic implementing of how to disconnect from the relevant connections. Mostly relevant for DBI connectors.

ConnectorDBI: Uses DBI::dbDisconnect() to create a table reference to close a DBI connection.

### Usage

```
disconnect_cnt(connector_object, ...)
```

### **Arguments**

connector\_object

Connector The connector object to use.

.. Additional arguments passed to the method for the individual connector.

### Value

invisible connector\_object.

download\_cnt

Download content from the connector

# Description

Additional list content methods for Databricks connectors implemented for connector::download\_cnt():

• ConnectorDatabricksVolume: Reuses the connector::download\_cnt() method for ConnectorDatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector.

```
download_cnt(connector_object, src, dest = basename(src), ...)
## S3 method for class 'ConnectorDatabricksVolume'
download_cnt(connector_object, src, dest = basename(src), ...)
```

#### **Arguments**

```
connector_object
```

Connector The connector object to use.

src character Name of the content to read, write, or remove. Typically the table

name.

dest character Path to the file to download to or upload from

... ConnectorDatabricksVolume: Additional parameters to pass to the brickster::db\_volume\_read()

method

#### Value

invisible connector\_object.

download\_directory\_cnt

Download a directory

### **Description**

Additional list content methods for Databricks connectors implemented for connector::download\_directory\_cnt():

• ConnectorDatabricksVolume: Reuses the connector::download\_directory\_cnt() method for ConnectorDatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector.

### Usage

```
download_directory_cnt(connector_object, src, dest = basename(src), ...)
## S3 method for class 'ConnectorDatabricksVolume'
download_directory_cnt(connector_object, src, dest = basename(src), ...)
```

#### **Arguments**

connector\_object

Connector The connector object to use.

src character The name of the directory to download from the connector

dest character Path to the directory to download to

... ConnectorDatabricksVolume: Additional parameters to pass to the brickster::db\_volume\_dir\_create

method

#### Value

invisible connector\_object.

list\_content\_cnt

### **Description**

Additional list content methods for Databricks connectors implemented for connector::list\_content\_cnt():

- ConnectorDatabricksTable: Reuses the connector::list\_content\_cnt() method for ConnectorDatabricksTable, but always sets the catalog and schema as defined in when initializing the connector.
- ConnectorDatabricksVolume: Reuses the connector::list\_content\_cnt() method for ConnectorDatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector.

### Usage

```
list_content_cnt(connector_object, ...)
## S3 method for class 'ConnectorDatabricksTable'
list_content_cnt(connector_object, ..., tags = NULL)
## S3 method for class 'ConnectorDatabricksVolume'
list_content_cnt(connector_object, ...)
```

#### Arguments

### Value

A character vector of content names

```
log_read_connector.ConnectorDatabricksTable

Connector Logging Functions
```

### **Description**

- ConnectorDatabricksTable: Implementation of the log\_read\_connector function for the ConnectorDatabricksTable class.
- ConnectorDatabricksVolume: Implementation of the log\_read\_connector function for the ConnectorDatabricksVolume class.

Additional log read methods for Databricks connectors implemented for connector::log\_read\_connector():

### Usage

```
## S3 method for class 'ConnectorDatabricksTable'
log_read_connector(connector_object, name, ...)
## S3 method for class 'ConnectorDatabricksVolume'
log_read_connector(connector_object, name, ...)
log_read_connector(connector_object, name, ...)
```

### Arguments

connector\_object

The connector object to log operations for. Can be any connector class (ConnectorFS, ConnectorDBI, ConnectorLogger, etc.)

name

Character string specifying the name or identifier of the resource being operated

on (e.g., file name, table name)

... Additional parameters passed to specific method implementations. May include connector-specific options or metadata.

### **Details**

**Connector Logging Functions** 

The logging system is built around S3 generic functions that dispatch to specific implementations based on the connector class. Each operation is logged with contextual information including connector details, operation type, and resource names.

#### Value

These are primarily side-effect functions that perform logging. The actual return value depends on the specific method implementation, typically:

• log\_read\_connector: Result of the read operation

- log\_write\_connector: Invisible result of write operation
- log\_remove\_connector: Invisible result of remove operation
- log\_list\_content\_connector: List of connector contents

```
log_remove_connector.ConnectorDatabricksTable

Connector Logging Functions
```

### Description

- ConnectorDatabricksTable: Implementation of the log\_remove\_connector function for the ConnectorDatabricksTable class.
- ConnectorDatabricksVolume: Implementation of the log\_remove\_connector function for the ConnectorDatabricksVolume class.

Additional log remove methods for Databricks connectors implemented for connector::log\_remove\_connector():

### Usage

```
## S3 method for class 'ConnectorDatabricksTable'
log_remove_connector(connector_object, name, ...)
## S3 method for class 'ConnectorDatabricksVolume'
log_remove_connector(connector_object, name, ...)
log_remove_connector(connector_object, name, ...)
```

### **Arguments**

connector\_object

The connector object to log operations for. Can be any connector class (ConnectorFS, ConnectorDBI, ConnectorLogger, etc.)

name Character stri

Character string specifying the name or identifier of the resource being operated

on (e.g., file name, table name)

. . Additional parameters passed to specific method implementations. May include connector-specific options or metadata.

1 1

### **Details**

**Connector Logging Functions** 

The logging system is built around S3 generic functions that dispatch to specific implementations based on the connector class. Each operation is logged with contextual information including connector details, operation type, and resource names.

#### Value

These are primarily side-effect functions that perform logging. The actual return value depends on the specific method implementation, typically:

- log\_read\_connector: Result of the read operation
- log\_write\_connector: Invisible result of write operation
- log\_remove\_connector: Invisible result of remove operation
- log\_list\_content\_connector: List of connector contents

```
\label{log_write_connector} \begin{tabular}{ll} log\_write\_connector. Connector Databricks Table \\ & \textit{Connector Logging Functions} \end{tabular}
```

### **Description**

- ConnectorDatabricksTable: Implementation of the log\_write\_connector function for the ConnectorDatabricksTable class.
- ConnectorDatabricksVolume: Implementation of the log\_write\_connector function for the ConnectorDatabricksVolume class.

Additional log write methods for Databricks connectors implemented for connector::log\_write\_connector():

### Usage

```
## $3 method for class 'ConnectorDatabricksTable'
log_write_connector(connector_object, name, ...)
## $3 method for class 'ConnectorDatabricksVolume'
log_write_connector(connector_object, name, ...)
log_write_connector(connector_object, name, ...)
```

### **Arguments**

```
connector_object

The connector object to log operations for. Can be any connector class (ConnectorFS, ConnectorDBI, ConnectorLogger, etc.)

name

Character string specifying the name or identifier of the resource being operated on (e.g., file name, table name)

Additional parameters passed to specific method implementations. May include connector-specific options or metadata.
```

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#### **Details**

**Connector Logging Functions** 

The logging system is built around S3 generic functions that dispatch to specific implementations based on the connector class. Each operation is logged with contextual information including connector details, operation type, and resource names.

# Value

These are primarily side-effect functions that perform logging. The actual return value depends on the specific method implementation, typically:

- log\_read\_connector: Result of the read operation
- log\_write\_connector: Invisible result of write operation
- log\_remove\_connector: Invisible result of remove operation
- log\_list\_content\_connector: List of connector contents

read\_cnt

Read content from the connector

### **Description**

Additional read methods for Databricks connectors implemented for connector::read\_cnt():

- ConnectorDatabricksTable: Reuses the connector::read\_cnt() method for ConnectorDatabricksTable, but always sets the catalog and schema as defined in when initializing the connector.
- ConnectorDatabricksVolume: Reuses the connector::read\_cnt() method for Connector-DatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector.

```
read_cnt(connector_object, name, ...)
## S3 method for class 'ConnectorDatabricksTable'
read_cnt(connector_object, name, ..., timepoint = NULL, version = NULL)
## S3 method for class 'ConnectorDatabricksVolume'
read_cnt(connector_object, name, ...)
```

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### **Arguments**

connector\_object

Connector The connector object to use.

name character Name of the content to read, write, or remove. Typically the table

name.

... ConnectorDatabricksVolume: Additional parameters to pass to the brickster::db\_volume\_read()

method

timepoint Timepoint in Delta time travel syntax format.

version Table version generated by the operation.

#### Value

R object with the content. For rectangular data a data.frame.

remove\_cnt

Remove content from the connector

### **Description**

Additional remove methods for Databricks connectors implemented for connector::remove\_cnt():

- ConnectorDatabricksTable: Reuses the connector::list\_content\_cnt() method for ConnectorDatabricksTable, but always sets the catalog and schema as defined in when initializing the connector.
- ConnectorDatabricksVolume: Reuses the connector::remove\_cnt() method for ConnectorDatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector.

#### Usage

```
remove_cnt(connector_object, name, ...)
## S3 method for class 'ConnectorDatabricksTable'
remove_cnt(connector_object, name, ...)
## S3 method for class 'ConnectorDatabricksVolume'
remove_cnt(connector_object, name, ...)
```

### **Arguments**

connector\_object

Connector The connector object to use.

name character Name of the content to read, write, or remove. Typically the table

name.

... ConnectorDatabricksTable: Additional parameters to pass to the brickster::db\_uc\_tables\_delete()

method

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#### Value

invisible connector\_object.

```
remove_directory_cnt Remove a directory
```

### **Description**

Additional list content methods for Databricks connectors implemented for connector::remove\_directory\_cnt():

• ConnectorDatabricksVolume: Reuses the connector::remove\_directory\_cnt() method for ConnectorDatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector.

#### Usage

```
remove_directory_cnt(connector_object, name, ...)
## S3 method for class 'ConnectorDatabricksVolume'
remove_directory_cnt(connector_object, name, ...)
```

### **Arguments**

connector\_object

Connector The connector object to use.

name character The name of the directory to remove

... ConnectorDatabricksVolume: Additional parameters to pass to the brickster::db\_volume\_dir\_delete

method

#### Value

invisible connector\_object.

tbl\_cnt

Use dplyr verbs to interact with the remote database table

### **Description**

Additional tbl methods for Databricks connectors implemented for connector::tbl\_cnt():

- ConnectorDatabricksTable: Reuses the connector::list\_content\_cnt() method for ConnectorDatabricksTable, but always sets the catalog and schema as defined in when initializing the connector.
- ConnectorDatabricksVolume: Reuses the connector::remove\_directory\_cnt() method for ConnectorDatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector. Uses read\_cnt() to allow redundancy between Volumes and Tables.

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### Usage

```
tbl_cnt(connector_object, name, ...)
## S3 method for class 'ConnectorDatabricksTable'
tbl_cnt(connector_object, name, ...)
## S3 method for class 'ConnectorDatabricksVolume'
tbl_cnt(connector_object, name, ...)
```

### **Arguments**

connector\_object

Connector The connector object to use.

name character Name of the content to read, write, or remove. Typically the table

name.

... Additional arguments passed to the method for the individual connector.

### Value

A dplyr::tbl object.

upload\_cnt

Upload content to the connector

# Description

Additional list content methods for Databricks connectors implemented for connector::upload\_cnt():

• ConnectorDatabricksVolume: Reuses the connector::upload\_cnt() method for ConnectorDatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector.

```
upload_cnt(
  connector_object,
  src,
  dest = basename(src),
  overwrite = zephyr::get_option("overwrite", "connector"),
  ...
)

## S3 method for class 'ConnectorDatabricksVolume'
upload_cnt(
  connector_object,
  src,
```

```
dest = basename(src),
  overwrite = zephyr::get_option("overwrite", "connector.databricks"),
   ...
)
```

#### **Arguments**

connector\_object

Connector The connector object to use.

src character Path to the file to download to or upload from

dest character Name of the content to read, write, or remove. Typically the table

name.

overwrite Overwrites existing content if it exists in the connector.

.. ConnectorDatabricksVolume: Additional parameters to pass to the brickster::db\_volume\_write()

method

### Value

invisible connector\_object.

```
upload_directory_cnt Upload a directory
```

## Description

Additional list content methods for Databricks connectors implemented for connector::upload\_directory\_cnt():

• ConnectorDatabricksVolume: Reuses the connector::upload\_directory\_cnt() method for ConnectorDatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector.

```
upload_directory_cnt(
   connector_object,
   src,
   dest,
   overwrite = zephyr::get_option("overwrite", "connector"),
   open = FALSE,
   ...
)

## S3 method for class 'ConnectorDatabricksVolume'
upload_directory_cnt(
   connector_object,
   src,
```

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```
dest = basename(src),
  overwrite = zephyr::get_option("overwrite", "connector"),
  open = FALSE,
   ...
)
```

#### **Arguments**

connector\_object

Connector The connector object to use.

src character Path to the directory to upload

dest character The name of the new directory to place the content in

overwrite Overwrite existing content if it exists in the connector? See connector-options

for details. Default can be set globally with options(connector.overwrite = TRUE/FALSE) or environment variable R\_CONNECTOR\_OVERWRITE.. Default:

FALSE.

open logical Open the directory as a new connector object.

... ConnectorDatabricksVolume: Additional parameters to pass to the brickster::db\_volume\_dir\_create

method

#### Value

invisible connector\_object.

write\_cnt

Write content to the connector

### **Description**

Additional write methods for Databricks connectors implemented for connector::write\_cnt():

- ConnectorDatabricksTable: Reuses the connector::write\_cnt() method for Connector-DatabricksTable, but always sets the catalog and schema as defined in when initializing the connector. Creates temporary volume to write object as a parquet file and then convert it to a table.
- ConnectorDatabricksVolume: Reuses the connector::write\_cnt() method for Connector-DatabricksVolume, but always sets the catalog, schema and path as defined in when initializing the connector.

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### Usage

write\_cnt(

tags

More info here

```
connector_object,
      Х,
      name,
      overwrite = zephyr::get_option("overwrite", "connector"),
    )
    ## S3 method for class 'ConnectorDatabricksTable'
   write_cnt(
      connector_object,
      Х,
      name,
      overwrite = zephyr::get_option("overwrite", "connector.databricks"),
     method = "volume",
      tags = NULL
    ## S3 method for class 'ConnectorDatabricksVolume'
   write_cnt(
      connector_object,
      Х,
      overwrite = zephyr::get_option("overwrite", "connector.databricks"),
    )
Arguments
   connector_object
                     Connector The connector object to use.
    Χ
                     The object to write to the connection
                     character Name of the content to read, write, or remove. Typically the table
    name
    overwrite
                     Overwrite existing content if it exists in the connector.
                     ConnectorDatabricksVolume: Additional parameters to pass to the brickster::db_volume_write()
                     method
                       • ConnectorDatabricksTable: Which method to use for writing the table. Op-
    method
                           - volume - using temporary volume to write data and then convert it to a
                             table.
                       • ConnectorDatabricksTable: Named list containing tag names and tag val-
```

ues, e.g. list("tag\_name1" = "tag\_value1", "tag\_name2" = "tag\_value2").

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# Value

invisible connector\_object.

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