Package 'connector.databricks'

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Title Expand 'connector' Package for 'Databricks' Tables and Volumes

Version 0.2.0

Description Expands the 'connector' <https://github.com/NovoNordisk-OpenSource/connector> package and provides a convenient interface for accessing and interacting with 'Databricks' <https://www.databricks.com> volumes and tables directly from R.

License Apache License (>= 2)

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BugReports https://github.com/NovoNordisk-OpenSource/connector.databricks/issues

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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"`
- Option: `connector.databricks.verbosity_level`
- Environment: `R_CONNECTOR.DATABRICKS_VERBOSITY_LEVEL`

`ConnectorDatabricksSQL` *Connector for connecting to Databricks using brickster DatabricksSQL*

Description

Extension of the connector::connector_dbi making it easier to connect to, and work with tables in Databricks using SQL warehouses.

Details

All methods for ConnectorDatabricksSQL 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 `ConnectorDatabricksSQL$conn` or create a new connector.

When creating the connections to Databricks you need to provide the warehouse ID of the SQL warehouse you want to connect to. Authentication to databricks is handled by the `brickster::DatabricksSQL()` driver and supports general use of personal access tokens and credentials through Posit Workbench. See also `brickster::DatabricksSQL()` for more information on how the connection to Databricks is established.

Super classes

`connector::Connector` -> `connector::ConnectorDBI` -> `ConnectorDatabricksSQL`

Active bindings

`conn` The DBI connection object of the connector

`catalog` The catalog used in the connector

`schema` The schema used in the connector

`staging_volume` Optional volume path for large dataset staging

Methods

Public methods:

- `ConnectorDatabricksSQL$new()`
- `ConnectorDatabricksSQL$clone()`

`ConnectorDatabricksSQL$new()`: Initialize the connection to Databricks

Usage:

```
ConnectorDatabricksSQL$new(
  warehouse_id,
  catalog,
  schema,
  staging_volume = NULL,
  ...,
  extra_class = NULL
)
```

Arguments:

`warehouse_id` character The ID of the Databricks SQL warehouse you want to connect to

`catalog` character The catalog to use

`schema` character The schema to use

`staging_volume` character Optional volume path for large dataset staging

`...` Additional parameters sent to `brickster::DatabricksSQL()` driver.

`extra_class` character Extra class to assign to the new connector

Returns: A ConnectorDatabricksSQL object

`ConnectorDatabricksSQL$clone()`: The objects of this class are cloneable with this method.

Usage:

```
ConnectorDatabricksSQL$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Examples

```
## Not run:
# Establish connection to your SQL warehouse

con_databricks <- ConnectorDatabricksSQL$new(
  warehouse_id = "your-warehouse-id",
  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)
```

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. Additional driver parameters can be passed through ....

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()

`ConnectorDatabricksTable$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

`...` Additional parameters sent to `DBI::dbConnect()` for the `odbc::databricks()` driver. `useNativeQuery` defaults to `FALSE`.

`extra_class` character Extra class to assign to the new connector

Returns: A ConnectorDatabricksTable object

`ConnectorDatabricksTable$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(
  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()

ConnectorDatabricksVolume$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

`ConnectorDatabricksVolume$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_sql *Create* ConnectorDatabricksSQL *connector*

Description

Initializes the connector for SQL warehouse type of storage. See ConnectorDatabricksSQL for details.

Initialize the connection to Databricks

Usage

```
connector_databricks_sql(
  warehouse_id = Sys.getenv("DATABRICKS_WAREHOUSE_ID"),
  catalog,
  schema,
  staging_volume = NULL,
  ...,
  extra_class = NULL
)
```

Arguments

warehouse_id	character The ID of the Databricks SQL warehouse you want to connect to. Defaults to DATABRICKS_WAREHOUSE_ID environment variable.
catalog	character The catalog to use
schema	character The schema to use
staging_volume	character Optional volume path for large dataset staging. Recommended way for better performances.
...	Additional parameters sent to brickster::DatabricksSQL() driver.
extra_class	character Extra class to assign to the new connector

Details

The extra_class parameter allows you to create a subclass of the ConnectorDatabricksSQL 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 ConnectorDatabricksSQL object.

Value

A ConnectorDatabricksSQL object

Examples

```
## Not run:
# Establish connection to your SQL warehouse

con_databricks <- connector_databricks_sql(
  warehouse_id = "your-warehouse-id",
  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_table

Create ConnectorDatabricksTable *connector*

Description

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

Usage

```
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
...	Additional parameters sent to DBI::dbConnect() for the odbc::databricks() driver, e.g. workspace, uid, pwd or driver. useNativeQuery defaults to FALSE.
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(
  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

Examples

```
## Not run:
# Connect to a file system
databricks_volume <- "catalog/schema/path"
db <- connector_databricks_volume(databricks_volume)

db

# Create subclass connection
db_subclass <- connector_databricks_volume(databricks_volume,
  extra_class = "subclass"
)

db_subclass
class(db_subclass)

## End(Not run)
```

`create_directory_cnt` *Create a directory*

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.

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.

Usage

```
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` *List available content from the connector*

Description

Additional list content methods for Databricks connectors implemented for `connector::list_content_cnt()`:

- ConnectorDatabricksSQL: Reuses the `connector::list_content_cnt()` method for ConnectorDatabricksSQL, but always sets the `catalog` and `schema` as defined in when initializing the connector.
- 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 'ConnectorDatabricksSQL'
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

`connector_object`	Connector The connector object to use.
`...`	ConnectorDatabricksVolume: Additional parameters to pass to the `brickster::db_volume_list()` method
`tags`	Expression to be translated to SQL using `dbplyr::translate_sql()` e.g. `((tag_name == "name1" && tag_value == "value1") || (tag_name == "name2"))`. It should contain `tag_name` and `tag_value` values to filter by.

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 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_write_connector.ConnectorDatabricksTable

Connector Logging Functions

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

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

## S3 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.

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()`:

- ConnectorDatabricksSQL: Reuses the `connector::read_cnt()` method for ConnectorDatabricksSQL, but always sets the `catalog` and `schema` as defined in when initializing the connector.
- 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 ConnectorDatabricksVolume, but always sets the `catalog`, `schema` and `path` as defined in when initializing the connector.

Usage

```
read_cnt(connector_object, name, ...)

## S3 method for class 'ConnectorDatabricksSQL'
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, ...)
```

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():

- ConnectorDatabricksSQL: Reuses the connector::remove_cnt() method for ConnectorDatabricksSQL, but always sets the catalog and schema as defined in when initializing the connector.
- 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 'ConnectorDatabricksSQL'
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

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()`:

- ConnectorDatabricksSQL: Reuses the `connector::tbl_cnt()` method for ConnectorDatabricksTable, but always sets the `catalog` and `schema` as defined in when initializing the connector.
- 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.

Usage

```
tbl_cnt(connector_object, name, ...)

## S3 method for class 'ConnectorDatabricksSQL'
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.

Usage

```
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.

Usage

```
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,
  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()`:

- ConnectorDatabricksSQL: Reuses the `connector::write_cnt()` method for ConnectorDatabricksSQL, but always sets the `catalog`, `schema` and `staging_volume` as defined in when initializing the connector.
- ConnectorDatabricksTable: Reuses the `connector::write_cnt()` method for ConnectorDatabricksTable, 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 ConnectorDatabricksVolume, but always sets the `catalog`, `schema` and `path` as defined in when initializing the connector.

Usage

```
write_cnt(
  connector_object,
  x,
  name,
  overwrite = zephyr::get_option("overwrite", "connector"),
  ...
)

## S3 method for class 'ConnectorDatabricksSQL'
write_cnt(
  connector_object,
  x,
  name,
  overwrite = zephyr::get_option("overwrite", "connector.databricks"),
  ...
)

## S3 method for class 'ConnectorDatabricksTable'
write_cnt(
  connector_object,
  x,
  name,
```

```
  overwrite = zephyr::get_option("overwrite", "connector.databricks"),
  ...,
  method = "volume",
  tags = NULL
)

## S3 method for class 'ConnectorDatabricksVolume'
write_cnt(
  connector_object,
  x,
  name,
  overwrite = zephyr::get_option("overwrite", "connector.databricks"),
  ...
)
```

Arguments

connector_object	Connector The connector object to use.
x	The object to write to the connection
name	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
method	• ConnectorDatabricksTable: Which method to use for writing the table. Options: – `volume` - using temporary volume to write data and then convert it to a table.
tags	• ConnectorDatabricksTable: Named list containing tag names and tag values, e.g. `list("tag_name1" = "tag_value1", "tag_name2" = "tag_value2")`. More info here

Value

invisible connector_object.

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