

Package: RTrino (via r-universe)

October 16, 2026

Title 'DBI' Backend for 'Trino'

Version 0.1.0

Description A 'DBI' compliant backend for 'Trino' <<https://trino.io>>, the distributed SQL query engine (successor of 'PrestoSQL'). Connects to a 'Trino' cluster over its HTTP REST API, executes queries with automatic pagination, maps 'Trino' types to R types, and integrates with 'dplyr' through 'dbplyr' SQL dialects. Supports basic, JSON Web Token (JWT) bearer and OAuth2 client credentials authentication, as well as custom certificate authorities.

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Encoding UTF-8

Language en-GB

Depends R (>= 4.1.0)

Imports bit64, DBI (>= 1.2.0), httr2 (>= 1.0.0), jsonlite, methods, rlang, tibble, utils

Suggests dbplyr (>= 2.6.0), dplyr, knitr, rmarkdown, testthat (>= 3.0.0), webfakes, withr

URL <https://angelcasasbl.github.io/RTrino/>,
<https://github.com/AngelCasasbl/RTrino>

BugReports <https://github.com/AngelCasasbl/RTrino/issues>

Roxygen list(markdown = TRUE)

VignetteBuilder knitr

Config/testthat/edition 3

Collate 'RTrino-package.R' 'TrinoDriver.R' 'TrinoConnection.R' 'TrinoResult.R' 'utils.R' 'request_headers.R' 'auth.R' 'ssl.R' 'dbConnect.R' 'dbDisconnect.R' 'dbIsValid.R' 'type_map.R' 'paginate.R' 'dbSendQuery.R' 'dbFetch.R' 'dbGetQuery.R' 'dbHasCompleted.R' 'dbClearResult.R' 'table_name.R' 'dbListTables.R' 'dbExistsTable.R' 'dbListFields.R' 'dbGetInfo.R' 'dbQuote.R' 'dbDataType.R' 'dbRemoveTable.R'

'dbRenameTable.R' 'dbCreateTable.R' 'dbAppendTable.R'
 'dbWriteTable.R' 'dbBegin.R' 'dbplyr-dialect.R' 'dbplyr-db.R'
 'dbplyr-simulate.R' 'zzz.R'

Config/roxygen2/version 8.1.0

Config/pak/sysreqs libssl-dev

Repository <https://angelcasasbl.r-universe.dev>

Date/Publication 2026-10-02 21:29:16 UTC

RemoteUrl <https://github.com/angelcasasbl/rtrino>

RemoteRef HEAD

RemoteSha 3421e6f508a83f77f6e28d12a70048cd838d8b02

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dbAppendTable, TrinoConnection-method

Insert rows into an existing table

Description

Builds one INSERT INTO ... VALUES (...) statement per batch of rows, with values quoted as literals by `DBI::sqlAppendTable()` (which calls `dbQuoteIdentifier()` and `dbQuoteLiteral()` for Trino) — there is no parameter binding to fall back on.

Usage

```
## S4 method for signature 'TrinoConnection'
dbAppendTable(conn, name, value, ..., row.names = NULL)
```

Arguments

conn	A TrinoConnection object.
name	Table name, in any form dbExistsTable() accepts.
value	A data frame with the rows to insert.
...	Takes chunk_size: how many rows go into a single INSERT statement, 1000 by default. Every row is written into the statement as a literal, so a data frame much larger than this is split into several statements rather than one that may exceed the coordinator's query length limit.
row.names	Unused: RTrino never writes row names as a column.

Value

The number of rows inserted.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "memory", schema = "default")
DBI::dbCreateTable(con, "sales", c(id = "integer", label = "varchar"))
DBI::dbAppendTable(con, "sales", data.frame(id = 1:3, label = letters[1:3]))
DBI::dbGetQuery(con, "SELECT * FROM sales ORDER BY id")
DBI::dbRemoveTable(con, "sales")
DBI::dbDisconnect(con)
```

dbBegin, TrinoConnection-method

Start, commit and roll back a transaction

Description

Every statement runs inside Trino's engine-level transaction mechanism: `dbBegin()` sends `START TRANSACTION` and keeps the transaction id Trino answers with, which is then carried on every later request until `dbCommit()` or `dbRollback()` sends `COMMIT` or `ROLLBACK` and clears it.

Usage

```
## S4 method for signature 'TrinoConnection'
dbBegin(conn, ...)
```

```
## S4 method for signature 'TrinoConnection'
dbCommit(conn, ...)
```

```
## S4 method for signature 'TrinoConnection'
dbRollback(conn, ...)
```

Arguments

<code>conn</code>	A TrinoConnection object.
<code>...</code>	Unused, for compatibility with the generic.

Details

Whether a `ROLLBACK` actually undoes a write depends on the connector behind the active catalog, not on RTrino: Iceberg and Delta Lake tables support it, most others (including Hive, strictly) only partially, and Trino's own synthetic catalogs (memory, tpch, ...) not at all. `dbBegin()` warns when the active catalog is one of the latter.

Value

TRUE, invisibly.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "tpch", schema = "tiny")

# tpch holds no real storage, so dbBegin() warns that a ROLLBACK would
# undo nothing. On an Iceberg or Delta Lake catalog it would not.
DBI::dbBegin(con)
DBI::dbGetQuery(con, "SELECT count(*) AS n FROM nation")
DBI::dbCommit(con)
```

```
DBI::dbDisconnect(con)
```

dbBind, TrinoResult-method

Parameters are not supported

Description

Trino's client protocol has no parameter binding of its own, so rather than ignoring the values, dbBind() fails.

Usage

```
## S4 method for signature 'TrinoResult'  
dbBind(res, params, ...)
```

Arguments

res	A TrinoResult object.
params	Unused.
...	Unused.

Value

Never returns.

dbClearResult, TrinoResult-method

Release a Trino result

Description

Frees the buffered rows and marks the cursor cleared. If the query is still running on the server, a DELETE is sent to its nextUri so the coordinator stops working on it instead of letting it run to completion for nobody.

Usage

```
## S4 method for signature 'TrinoResult'  
dbClearResult(res, ...)
```

Arguments

res	A TrinoResult object.
...	Unused, for compatibility with the generic.

Value

TRUE, invisibly.

dbConnect, TrinoDriver-method

Connect to a Trino cluster

Description

Creates a [TrinoConnection](#). Trino's REST API is stateless, so no session is opened on the server; the connection object holds the coordinator address and the per-request settings. To fail early on a wrong address or bad credentials, `dbConnect()` probes `GET /v1/info` before returning.

Usage

```
## S4 method for signature 'TrinoDriver'
dbConnect(
  drv,
  host = "http://localhost",
  port = 8080L,
  user = trino_default_user(),
  catalog = NULL,
  schema = NULL,
  source = "RTrino",
  session.timezone = "UTC",
  bigint = c("integer64", "numeric", "character"),
  auth = NULL,
  ssl_options = trino_ssl(),
  extra.headers = list(),
  timeout = 60,
  query_max_run_time = NULL,
  allow_http_auth = FALSE,
  ...
)
```

Arguments

<code>drv</code>	A TrinoDriver object, from Trino() .
<code>host</code>	Coordinator URL. A missing scheme defaults to <code>http://</code> ; a trailing slash is dropped. It may include the port (" <code>https://trino.example.com:8443</code> "), in which case port need not be given.
<code>port</code>	Coordinator port, a whole number between 1 and 65535.
<code>user</code>	Trino user name, sent as <code>X-Trino-User</code> .
<code>catalog</code>	Trino catalog. Required.
<code>schema</code>	Trino schema. Required.

source	Value of the X-Trino-Source header; shows up in the coordinator's query history.
session.timezone	Session time zone, used when reading TIMESTAMP columns.
bigint	How to return BIGINT columns: "integer64" (the default, via bit64, exact except for the lowest value, -9223372036854775808, which bit64 reserves for NA), "numeric" (a double, exact only up to 2^53) or "character" (the exact digits).
auth	An authentication closure from trino_auth_basic() , trino_auth_jwt() or trino_auth_oauth2() , or NULL for a cluster with no authentication.
ssl_options	TLS options from trino_ssl() .
extra.headers	Named list of extra HTTP headers added to every request, each a single string. Useful for Trino session properties set through X-Trino-Session.
timeout	Seconds allowed for each HTTP request to the coordinator, not for the whole query; Inf for no limit. Connecting gives up after 10 seconds, or timeout if shorter.
query_max_run_time	Longest a query may run on the cluster before Trino stops it, as a Trino duration such as "30m" or "2h", or a number of seconds. NULL, the default, leaves the cluster's own limit. Sent as the query_max_run_time session property.
allow_http_auth	Set to TRUE to send auth credentials to an http:// host, which carries them unencrypted. Only for a connection that is encrypted by other means, such as an SSH tunnel.
...	Unused, for compatibility with the generic.

Value

A [TrinoConnection](#) object.

Timeouts

A query is a series of HTTP requests, so two limits apply. `timeout` bounds each request: a coordinator or network that stops answering fails with an error instead of blocking the R session. `query_max_run_time` bounds the query as a whole on the server: past it, Trino stops the query and RTrino raises a `trino_query_error` whose `error_name` is "EXCEEDED_TIME_LIMIT". In a Shiny app, where a blocked session blocks its user, set both.

Examples

```
# The examples in this package run against the coordinator that
# RTRINO_TEST_URL points at, such as "http://localhost:8080" for
# `docker run -p 8080:8080 trinodb/trino`. It has no authentication.
con <- DBI::dbConnect(
  RTrino::Trino(),
  host = Sys.getenv("RTRINO_TEST_URL"),
  catalog = "tpch", schema = "tiny"
```

```

)
con
DBI::dbDisconnect(con)

# LDAP over TLS, with limits for use in a Shiny app
## Not run:
con <- DBI::dbConnect(
  RTrino::Trino(),
  host    = "https://trino.example.com",
  port    = 443,
  user    = Sys.getenv("TRINO_USER"),
  catalog = "hive",
  schema  = "analytics",
  auth    = trino_auth_basic(Sys.getenv("TRINO_USER"),
                             Sys.getenv("TRINO_PASSWORD")),
  timeout = 30,
  query_max_run_time = "5m"
)
DBI::dbDisconnect(con)

## End(Not run)

```

dbCreateTable,TrinoConnection-method

Create a table

Description

Trino has no temporary tables, so temporary = TRUE is an error rather than being silently ignored.

Usage

```
## S4 method for signature 'TrinoConnection'
dbCreateTable(conn, name, fields, ..., row.names = NULL, temporary = FALSE)
```

Arguments

conn	A TrinoConnection object.
name	Table name, in any form dbExistsTable() accepts.
fields	Either a named character vector of Trino types, one per column, or a data frame whose columns' R types are mapped to Trino types with dbDataType() .
...	Unused, for compatibility with the generic.
row.names	Unused: RTrino never writes row names as a column.
temporary	Must be FALSE.

Value

TRUE, invisibly.

Examples

```

con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "memory", schema = "default")
DBI::dbCreateTable(con, "sales", c(id = "bigint", label = "varchar"))
DBI::dbListFields(con, "sales")
DBI::dbRemoveTable(con, "sales")

# The column types can also follow a data frame's
DBI::dbCreateTable(con, "sales", data.frame(id = 1L, label = "a"))
DBI::dbRemoveTable(con, "sales")

DBI::dbDisconnect(con)

```

dbDataType,TrinoConnection-method

Map an R type to a Trino type

Description

The inverse of `trino_type_to_r()`: used by `dbCreateTable()` to pick a column type when the caller does not give one explicitly.

Usage

```

## S4 method for signature 'TrinoConnection'
dbDataType(dbObj, obj, ...)

```

Arguments

dbObj	A TrinoConnection object.
obj	An R vector, or a data frame (one call per column).
...	Unused, for compatibility with the generic.

Value

A string naming a Trino type.

Examples

```

con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "tpch", schema = "tiny")
DBI::dbDataType(con, 1L)
DBI::dbDataType(con, Sys.Date())
DBI::dbDataType(con, data.frame(id = 1L, label = "a"))
DBI::dbDisconnect(con)

```

 dbDisconnect,TrinoConnection-method

Disconnect from Trino

Description

Marks the connection as closed. Trino's REST API is stateless, so nothing is sent to the server; any later use of conn raises an error.

Usage

```
## S4 method for signature 'TrinoConnection'
dbDisconnect(conn, ...)
```

Arguments

conn	A TrinoConnection object.
...	Unused, for compatibility with the generic.

Value

TRUE, invisibly.

 dbExecute,TrinoConnection,character-method

Execute a statement that returns no rows

Description

Runs the statement to completion and reports how many rows Trino says it changed: the count of an INSERT, an UPDATE, a DELETE, a MERGE or a CREATE TABLE ... AS SELECT, and 0 for a statement that changes no rows, such as CREATE TABLE or DROP TABLE.

Usage

```
## S4 method for signature 'TrinoConnection,character'
dbExecute(conn, statement, ...)
```

Arguments

conn	A TrinoConnection object.
statement	A single SQL statement.
...	Unused, for compatibility with the generic.

Value

The number of affected rows, invisibly: a double, or NA for a data change whose count Trino did not report.

dbExistsTable, TrinoConnection, character-method
Does a table exist?

Description

Asks information_schema for a count, so the answer costs the same whatever the schema holds. Trino folds every identifier to lower case, so the name is matched the same way: "SALES" exists if sales does, as SELECT * FROM SALES would find it.

Usage

```
## S4 method for signature 'TrinoConnection,character'
dbExistsTable(conn, name, ...)

## S4 method for signature 'TrinoConnection,Id'
dbExistsTable(conn, name, ...)

## S4 method for signature 'TrinoConnection,ANY'
dbExistsTable(conn, name, ...)
```

Arguments

conn	A TrinoConnection object.
name	Table name, required. A string: "table" resolves against the connection's catalog and schema, "schema.table" keeps its catalog, and "catalog.schema.table" is used as given. Also a DBI::Id() , with components named catalog, schema and table, or a quoted identifier from DBI::SQL() or DBI::dbQuoteIdentifier() .
...	Unused, for compatibility with the generic.

Value

A logical scalar. A name in a catalog or schema that does not exist is simply FALSE, not an error.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "tpch", schema = "tiny")
DBI::dbExistsTable(con, "nation")
DBI::dbExistsTable(con, "tpch.sf1.nation")
DBI::dbExistsTable(con, DBI::Id(catalog = "tpch", schema = "sf1",
                               table = "nation"))
DBI::dbExistsTable(con, "no_such_table")
DBI::dbDisconnect(con)
```

dbFetch, TrinoResult-method

Fetch rows from a Trino result

Description

Pulls rows from the cursor, following Trino's `nextUri` chain as needed, and converts each column to its R type according to the column's declared Trino type and the connection's `bigint` setting.

Usage

```
## S4 method for signature 'TrinoResult'
dbFetch(res, n = -1, ...)
```

Arguments

<code>res</code>	A TrinoResult object.
<code>n</code>	Number of rows to fetch. <code>-1</code> or <code>Inf</code> (the default is <code>-1</code>) fetches every remaining row, paginating until the query finishes. A positive <code>n</code> returns at most that many rows, pulling as many pages as needed and keeping the remainder buffered on the cursor for the next call. <code>0</code> returns no rows but the result's columns, with their types.
<code>...</code>	Unused, for compatibility with the generic.

Value

A [tibble](#). Once the result is exhausted, a zero-row tibble with the right columns and types.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "tpch", schema = "tiny")
res <- DBI::dbSendQuery(con, "SELECT * FROM orders")
while (!DBI::dbHasCompleted(res)) {
  chunk <- DBI::dbFetch(res, n = 4000)
  # process chunk; here, just count its rows
  cat(nrow(chunk), "rows\n")
}
DBI::dbClearResult(res)
DBI::dbDisconnect(con)
```

dbGetInfo,TrinoConnection-method

Metadata about a Trino connection

Description

Reports the connection's settings plus the coordinator's version, read from /v1/info. If that endpoint cannot be reached, db.version is NA rather than an error, so the rest of the metadata stays available.

Usage

```
## S4 method for signature 'TrinoConnection'
dbGetInfo(dbObj, ...)
```

Arguments

dbObj	A TrinoConnection object.
...	Unused, for compatibility with the generic.

Value

A list with db.version, host, port, user, catalog and schema.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "tpch", schema = "tiny")
DBI::dbGetInfo(con)
DBI::dbDisconnect(con)
```

dbGetQuery,TrinoConnection,character-method

Run a query and return all of its rows

Description

Submits the statement, fetches every row and clears the result, even if fetching fails.

Usage

```
## S4 method for signature 'TrinoConnection,character'
dbGetQuery(conn, statement, n = -1, ...)
```

Arguments

conn	A TrinoConnection object.
statement	A single SQL statement.
n	Number of rows to return; -1 (the default) returns all of them.
...	Unused, for compatibility with the generic.

Value

A [tibble](#).

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "tpch", schema = "tiny")
DBI::dbGetQuery(con, "SELECT * FROM nation LIMIT 5")
DBI::dbGetQuery(con, "SELECT * FROM nation", n = 3)
DBI::dbDisconnect(con)
```

dbHasCompleted, TrinoResult-method

Have all rows of a result been consumed?

Description

TRUE once Trino has stopped handing out pages *and* the rows already pulled have been handed to the caller. A result that has finished on the server but still holds buffered rows is not complete, so a while (!dbHasCompleted(res)) loop over [dbFetch\(\)](#) sees every row.

Usage

```
## S4 method for signature 'TrinoResult'
dbHasCompleted(res, ...)
```

Arguments

res	A TrinoResult object.
...	Unused, for compatibility with the generic.

Value

A logical scalar.

dbIsValid,TrinoConnection-method

Is this connection or result still usable?

Description

A connection is valid until `dbDisconnect()` is called. A result is valid until it is cleared by `dbClearResult()` - a result whose rows have all been fetched is still valid, so that `dbColumnInfo()` and friends keep working.

Usage

```
## S4 method for signature 'TrinoConnection'
dbIsValid(dbObj, ...)
```

```
## S4 method for signature 'TrinoResult'
dbIsValid(dbObj, ...)
```

Arguments

dbObj	A TrinoConnection or TrinoResult object.
...	Unused, for compatibility with the generic.

Value

A logical scalar.

dbListFields,TrinoConnection,character-method

List a table's columns

Description

List a table's columns

Usage

```
## S4 method for signature 'TrinoConnection,character'
dbListFields(conn, name, ...)
```

```
## S4 method for signature 'TrinoConnection,Id'
dbListFields(conn, name, ...)
```

```
## S4 method for signature 'TrinoConnection,ANY'
dbListFields(conn, name, ...)
```

Arguments

conn	A TrinoConnection object.
name	Table name, required, in any form dbExistsTable() accepts: a string with one to three dot-separated parts, a DBI::Id() or a quoted identifier from DBI::SQL() . An unqualified name is resolved against the connection's catalog and schema.
...	Unused, for compatibility with the generic.

Value

A character vector of column names.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "tpch", schema = "tiny")
DBI::dbListFields(con, "nation")
DBI::dbListFields(con, DBI::Id(schema = "sf1", table = "region"))
DBI::dbDisconnect(con)
```

dbListTables, TrinoConnection-method

List the tables in the connection's schema

Description

List the tables in the connection's schema

Usage

```
## S4 method for signature 'TrinoConnection'
dbListTables(conn, ...)
```

Arguments

conn	A TrinoConnection object.
...	Unused, for compatibility with the generic.

Value

A character vector of table names.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "tpch", schema = "tiny")
DBI::dbListTables(con)
DBI::dbDisconnect(con)
```

dbQuoteIdentifier,TrinoConnection,character-method
Quote identifiers and strings for Trino

Description

Trino follows the SQL standard: identifiers are wrapped in double quotes with embedded double quotes doubled, and string literals are wrapped in single quotes with embedded single quotes doubled. A value that is already `DBI::SQL()` is returned unchanged rather than quoted a second time.

Usage

```
## S4 method for signature 'TrinoConnection,character'
dbQuoteIdentifier(conn, x, ...)

## S4 method for signature 'TrinoConnection,SQL'
dbQuoteIdentifier(conn, x, ...)

## S4 method for signature 'TrinoConnection,character'
dbQuoteString(conn, x, ...)

## S4 method for signature 'TrinoConnection,SQL'
dbQuoteString(conn, x, ...)
```

Arguments

conn	A TrinoConnection object.
x	A character vector, or an identifier for <code>dbQuoteIdentifier()</code> .
...	Unused, for compatibility with the generic.

Value

A [DBI::SQL](#) object.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "tpch", schema = "tiny")
DBI::dbQuoteIdentifier(con, "my column")
DBI::dbQuoteString(con, "O'Brien")
DBI::dbDisconnect(con)
```

dbQuoteLiteral, TrinoConnection-method

Quote R values as Trino literals

Description

Turns R values into SQL literals Trino accepts where a value of the matching type is expected. Used by `DBI::sqlInterpolate()` and `glue::glue_sql()`, and so the way to put values into a statement, since RTrino has no parameter binding. Missing values become NULL.

Usage

```
## S4 method for signature 'TrinoConnection'
dbQuoteLiteral(conn, x, ...)
```

Arguments

conn	A TrinoConnection object.
x	A vector to quote.
...	Unused, for compatibility with the generic.

Details

- character and factor: 'text', with embedded quotes doubled;
- logical: TRUE or FALSE;
- integer and integer64: the integer's digits;
- double: a DOUBLE literal that reads back as the same double, such as 0.30000000000000004E0, or nan(), infinity() or -infinity();
- Date: DATE '2026-01-15';
- POSIXct: TIMESTAMP '2026-01-15 10:30:00.123456', the instant as a wall-clock time in the connection's session.timezone, which is how Trino reads it back;
- a list of raw vectors: X'0102FF'.

Other classes are quoted by DBI's default method.

Value

A [DBI::SQL](#) object.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                      catalog = "tpch", schema = "tiny")
DBI::dbQuoteLiteral(con, as.Date("2026-01-15"))
DBI::sqlInterpolate(
  con, "SELECT * FROM orders WHERE orderdate >= ?since AND urgent = ?flag",
```

```

    since = as.Date("2026-01-01"), flag = TRUE
  )
  DBI::dbDisconnect(con)

```

 dbRemoveTable,TrinoConnection,character-method

Drop a table

Description

Drop a table

Usage

```
## S4 method for signature 'TrinoConnection,character'
dbRemoveTable(conn, name, ...)
```

```
## S4 method for signature 'TrinoConnection,Id'
dbRemoveTable(conn, name, ...)
```

```
## S4 method for signature 'TrinoConnection,ANY'
dbRemoveTable(conn, name, ...)
```

Arguments

conn	A TrinoConnection object.
name	Table name, in any form dbExistsTable() accepts.
...	Unused, for compatibility with the generic.

Value

TRUE, invisibly.

Examples

```

con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "memory", schema = "default")
DBI::dbWriteTable(con, "sales", data.frame(id = 1:3))
DBI::dbRemoveTable(con, "sales")
DBI::dbExistsTable(con, "sales")
DBI::dbDisconnect(con)

```

dbRenameTable	<i>Rename a table</i>
---------------	-----------------------

Description

Not a DBI generic: DBI has no `dbRenameTable()`, so RTrino defines its own, the way RPresto does for Presto.

Usage

```
dbRenameTable(conn, name, new_name, ...)

## S4 method for signature 'TrinoConnection'
dbRenameTable(conn, name, new_name, ...)
```

Arguments

conn	A TrinoConnection object.
name	Current table name, in any form dbExistsTable() accepts.
new_name	New table name, in the same forms.
...	Unused, for compatibility with the generic.

Value

TRUE, invisibly.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                      catalog = "memory", schema = "default")
DBI::dbWriteTable(con, "sales", data.frame(id = 1:3))
dbRenameTable(con, "sales", "sales_old")
DBI::dbExistsTable(con, "sales_old")
DBI::dbRemoveTable(con, "sales_old")
DBI::dbDisconnect(con)
```

dbSendQuery,TrinoConnection,character-method	<i>Submit a statement to Trino</i>
--	------------------------------------

Description

Posts the statement to `/v1/statement` and returns immediately with a [TrinoResult](#) cursor; the rows are pulled by [dbFetch\(\)](#). A statement that fails during planning raises an error here, because Trino reports it in the response to the initial POST.

Usage

```
## S4 method for signature 'TrinoConnection,character'
dbSendQuery(conn, statement, ...)
```

Arguments

conn	A TrinoConnection object.
statement	A single SQL statement, without a trailing semicolon.
...	Unused, for compatibility with the generic.

Details

Query parameters are not supported: passing params is an error rather than being silently ignored. Put values into the statement with [DBI::sqlInterpolate\(\)](#) or `glue::glue_sql()`, which quote them with [DBI::dbQuoteLiteral\(\)](#) as Trino literals.

Value

A [TrinoResult](#) object.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                     catalog = "tpch", schema = "tiny")
res <- DBI::dbSendQuery(con, "SELECT 1 AS n")
DBI::dbFetch(res)
DBI::dbClearResult(res)

# Values go into the SQL as literals, quoted for Trino
sql <- DBI::sqlInterpolate(
  con, "SELECT count(*) AS n FROM orders WHERE orderdate >= ?since",
  since = as.Date("1998-01-01")
)
DBI::dbGetQuery(con, sql)

DBI::dbDisconnect(con)
```

dbSendStatement, TrinoConnection, character-method

Submit a statement that changes something

Description

Unlike [dbSendQuery\(\)](#), runs the statement to completion before returning, so that [dbGetRowsAffected\(\)](#) answers straight away, as DBI requires: Trino only reports the count once the statement has finished.

Usage

```
## S4 method for signature 'TrinoConnection,character'
dbSendStatement(conn, statement, ...)
```

Arguments

conn	A TrinoConnection object.
statement	A single SQL statement, without a trailing semicolon.
...	Unused, for compatibility with the generic.

Value

A [TrinoResult](#) object whose statement has finished.

dbWriteTable,TrinoConnection,ANY-method
<i>Write a table</i>

Description

Creates the table with [dbCreateTable\(\)](#) and fills it with [dbAppendTable\(\)](#). CREATE TABLE cannot be undone by [dbRollback\(\)](#) on most connectors, so overwrite = TRUE plays it safe on its own: it renames the existing table rather than dropping it, and restores it if anything fails before the new table is fully written.

Usage

```
## S4 method for signature 'TrinoConnection,ANY'
dbWriteTable(
  conn,
  name,
  value,
  ...,
  overwrite = FALSE,
  append = FALSE,
  field.types = NULL,
  temporary = FALSE,
  row.names = NULL,
  chunk_size = 1000L
)

## S4 method for signature 'TrinoConnection,Id'
dbWriteTable(conn, name, value, ...)
```

Arguments

conn	A TrinoConnection object.
name	Table name, in any form dbExistsTable() accepts.
value	A data frame to write.
...	Unused, for compatibility with the generic.
overwrite	Drop and recreate the table if it already exists.
append	Add to the table if it already exists, instead of creating it.
field.types	A named character vector of Trino types, overriding the types dbDataType() would otherwise infer. Not allowed together with append.
temporary	Must be FALSE: Trino has no temporary tables.
row.names	Unused: RTrino never writes row names as a column.
chunk_size	Passed to dbAppendTable() .

Value

TRUE, invisibly.

Examples

```
con <- DBI::dbConnect(RTrino::Trino(), host = Sys.getenv("RTRINO_TEST_URL"),
                      catalog = "memory", schema = "default")
DBI::dbWriteTable(con, "sales", data.frame(id = 1:3, label = letters[1:3]))
DBI::dbWriteTable(con, "sales", data.frame(id = 4L, label = "d"),
                  append = TRUE)
DBI::dbGetQuery(con, "SELECT * FROM sales ORDER BY id")

# Replace the table and its contents
DBI::dbWriteTable(con, "sales", data.frame(id = 9L, label = "z"),
                  overwrite = TRUE)
DBI::dbGetQuery(con, "SELECT * FROM sales")

DBI::dbRemoveTable(con, "sales")
DBI::dbDisconnect(con)
```

Trino

Instantiate the Trino driver

Description

Creates the driver object passed as the first argument to [DBI::dbConnect\(\)](#). The call has no side effects and always succeeds.

Usage

```
Trino()
```

Value

A [TrinoDriver](#) object.

Examples

```
drv <- Trino()
drv
```

trino_auth	<i>Authentication methods for Trino</i>
------------	---

Description

Each helper returns a *closure* that takes an `httr2` request and returns it with the appropriate credentials attached. The credentials live only in that closure's environment, so they are never written to the global environment and never stored on the connection object in plain sight. Pass the result as the `auth` argument of [dbConnect\(\)](#).

Usage

```
trino_auth_basic(user, password)
```

```
trino_auth_jwt(token)
```

```
trino_auth_oauth2(client_id, client_secret, token_url, scope = NULL, ...)
```

Arguments

<code>user</code>	User name.
<code>password</code>	Password. Read it from the environment (<code>Sys.getenv("TRINO_PASSWORD")</code>) rather than writing it in a script.
<code>token</code>	A JWT, as a string.
<code>client_id</code>	OAuth2 client id.
<code>client_secret</code>	OAuth2 client secret.
<code>token_url</code>	Token endpoint of the OAuth2 provider.
<code>scope</code>	Optional OAuth2 scope.
<code>...</code>	Further arguments passed on to httr2::req_oauth_client_credentials() .

Details

- `trino_auth_basic()` — HTTP basic authentication, used by Trino's LDAP and password-file authenticators.
- `trino_auth_jwt()` — a bearer JWT, for service accounts and unattended pipelines, or for a cluster fronted by an SSO proxy that mints its own tokens.
- `trino_auth_oauth2()` — OAuth2 client credentials, for corporate identity providers such as Okta or Entra ID. `httr2` caches the token and renews it when it expires.

Trino rejects basic and bearer credentials over plain HTTP, so use an `https://` host with all three.

Value

A function of one argument (an `httr2` request) returning a modified request.

Examples

```
# Only builds the credential; nothing is sent until a connection uses it
auth <- trino_auth_basic("analyst", Sys.getenv("TRINO_PASSWORD"))

# Needs a cluster that authenticates with a password
## Not run:
con <- DBI::dbConnect(
  RTrino::Trino(),
  host    = "https://trino.example.com",
  port    = 443,
  user    = "analyst",
  catalog = "hive",
  schema  = "default",
  auth    = auth
)

## End(Not run)
```

trino_ssl

*TLS options for a Trino connection***Description**

Collects the TLS settings applied to every request made on a connection. Pass the result as the `ssl_options` argument of `dbConnect()`.

Usage

```
trino_ssl(verify = TRUE, ca_bundle = NULL)
```

Arguments

<code>verify</code>	Whether to verify the server's certificate. Defaults to <code>TRUE</code> .
<code>ca_bundle</code>	Path to a PEM file holding the certificate authorities to trust, or <code>NULL</code> to use the system store.

Details

A cluster whose certificate is signed by an internal authority does not need verification turned off: point `ca_bundle` at the authority's PEM file and certificates keep being checked. `verify = FALSE` accepts any certificate, including an attacker's, and so `dbConnect()` warns once when it opens a connection with it.

Value

A list of TLS options.

Examples

```
# Secure default
trino_ssl()

# Trust an internal certificate authority
## Not run:
trino_ssl(ca_bundle = "/etc/ssl/certs/internal-ca.pem")

## End(Not run)
```

trino_type_to_r	<i>Map a Trino type to the name of an R type</i>
-----------------	--

Description

Reports the R type a column of the given Trino type is converted to. Mostly useful for documentation and testing; [dbFetch\(\)](#) converts columns through `trino_cast_column()`.

Usage

```
trino_type_to_r(type, bigint = c("integer64", "numeric", "character"))
```

Arguments

type	A Trino type name, with or without parameters, as a single string.
bigint	How BIGINT is handled; see dbConnect() .

Value

A string naming an R class.

Examples

```
trino_type_to_r("varchar(10)")
trino_type_to_r("bigint")
trino_type_to_r("bigint", bigint = "numeric")
trino_type_to_r("timestamp(3) with time zone")
```

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