Package ‘RGreenplum’

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Title Interface to 'Greenplum' Database
Version 0.1.2
Description Fully 'DBI'-compliant interface to 'Greenplum' <https://greenplum.org/>, an open-source parallel database. This is an extension of the 'RPostgres' package <https://github.com/r-dbi/RPostgres>.
License GPL-2
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BugReports https://github.com/mwilluz/RGreenplum/issues
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dbConnect,GreenplumDriver-method

Connect to a Greenplum database.

Description

Manually disconnecting a connection is not necessary with RGreenplum, but still recommended; if you delete the object containing the connection, it will be automatically disconnected during the next GC with a warning.

Usage

```r
## S4 method for signature 'GreenplumDriver'
dbConnect(drv, dbname = NULL, host = NULL, port = NULL, password = NULL, user = NULL, service = NULL, ..., bigint = c("integer64", "integer", "numeric", "character"))
```

Arguments

- `drv` `RGreenplum::Greenplum()`
- `dbname` Database name. If `NULL`, defaults to the user name. Note that this argument can only contain the database name, it will not be parsed as a connection string (internally, `expand_dbname` is set to `false` in the call to `['PQconnectdbParams']`)(https://www.postgresql.org/docs/9.6/static/libpq-connect.html).
- `host, port` Host and port. If `NULL`, will be retrieved from `PGHOST` and `PGPORT` env vars.
- `user, password` User name and password. If `NULL`, will be retrieved from `PGUSER` and `PGPASSWORD` envvars, or from the appropriate line in `~/.pgpass`. See <http://www.postgresql.org/docs/9.6/static/libpq-pgpass.html> for more details.
- `service` Name of service to connect as. If `NULL`, will be ignored. Otherwise, connection parameters will be loaded from the `pg_service.conf` file and used. See <http://www.postgresql.org/docs/9.6/static/libpq-pgservice.html> for details on this file and syntax.
- `...` Other name-value pairs that describe additional connection options as described at <http://www.postgresql.org/docs/9.6/static/libpq-connect.html#LIBPQ-PARAMKEYWORDS>
- `bigint` The R type that 64-bit integer types should be mapped to, default is `[bit64::integer64]`, which allows the full range of 64 bit integers.
dbIsValid, GreenplumDriver-method

Greenplum dbIsValid method

Description

Greenplum dbIsValid method

Usage

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

Arguments

dbObj: database object

...: other arguments for method

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dbWriteTable, GreenplumConnection, character, data.frame-method

Greenplum dbWriteTable method

Description

Greenplum dbWriteTable method

Greenplum dbExistsTable method

Usage

```r
## S4 method for signature 'GreenplumConnection,character,data.frame'
dbWriteTable(conn, name, value, ..., row.names = FALSE, overwrite = FALSE, append = FALSE,
field.types = NULL, temporary = FALSE, distributed_by = NULL,
copy = TRUE)

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

conn a [GreenplumConnection-class] object
name a character string specifying a table name. Names will be automatically quoted so you can use any sequence of characters, not just any valid bare table name.
value A data.frame to write to the database.
... Other arguments used by individual methods.
row.names Either TRUE, FALSE, NA or a string
overwrite a logical specifying whether to overwrite an existing table or not. Its default is FALSE.
append a logical specifying whether to append to an existing table in the DBMS. Its default is FALSE.
field.types character vector of named SQL field types where the names are the names of new table’s columns.
temporary If TRUE, will generate a temporary table statement.
distributed_by Distribution columns for new table. NULL for random distribution.
copy If TRUE, data will be copied to remote database

Greenplum driver

Description

This driver never needs to be unloaded and hence ‘dbUnload()’ is a null-op.

Usage

Greenplum()

Examples

library(RPostgres)
RGreenplum::Greenplum()
sqlCreateTable,GreenplumConnection-method

Greenplum sqlCreateTable method

Description

Greenplum sqlCreateTable method

Usage

## S4 method for signature 'GreenplumConnection'
sqlCreateTable(con, table, fields,
    row.names = NA, temporary = FALSE, distributed_by = NULL, ...)

Arguments

- **con**: A database connection.
- **table**: Name of the table. Escaped with [dbQuoteIdentifier()].
- **fields**: Either a character vector or a data frame.
  - A named character vector: Names are column names, values are types. Names are escaped with [dbQuoteIdentifier()]. Field types are unescaped.
  - A data frame: field types are generated using [dbDataType()].
- **row.names**: Either TRUE, FALSE, NA or a string.
  - If TRUE, always translate row names to a column called "row_names". If FALSE, never translate row names. If NA, translate rownames only if they're a character vector.
  - A string is equivalent to TRUE, but allows you to override the default name.
- **temporary**: If 'TRUE', will generate a temporary table statement.
- **distributed_by**: Distribution columns for new table. NULL for random distribution.
- **...**: Other arguments used by individual methods.
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