

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>>.

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URL <https://github.com/mwillumz/RGreenplum>

BugReports <https://github.com/mwillumz/RGreenplum/issues>

Encoding UTF-8

LazyData true

Depends R (>= 3.1.0)

Imports DBI, RPostgres, methods

Suggests DBItest, testthat

RoxygenNote 6.0.1

Collate 'GreenplumDriver.R' 'GreenplumConnection.R' 'table-create.R' 'tables.R'

NeedsCompilation no

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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

```
## 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 [<code>PQconnectdbParams()</code>](https://www.postgresql.org/docs/9.6/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

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

Arguments

dbObj	database object
...	other arguments for method

dbWriteTable,GreenplumConnection,character,data.frame-method
Greenplum dbWriteTable method

Description

Greenplum dbWriteTable method

Greenplum dbExistsTable method

Usage

```
## 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

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. For backward compatibility, NULL is equivalent to FALSE.
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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