

# Package: RGreenplum (via r-universe)

August 20, 2024

**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

**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'

**Repository** <https://mwillumz.r-universe.dev>

**RemoteUrl** <https://github.com/mwillumz/rgreenplum>

**RemoteRef** HEAD

**RemoteSha** 734c888755f831c6589778c9b40bcb80ad477bf2

## Contents

dbConnect,GreenplumDriver-method . . . . .	2
dbIsValid,GreenplumDriver-method . . . . .	3
dbWriteTable,GreenplumConnection,character,data.frame-method . . . . .	3
Greenplum . . . . .	4
sqlCreateTable,GreenplumConnection-method . . . . .	5

<b>Index</b>	<b>6</b>
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 dbConnect, GreenplumDriver-method

*Connect to a Greenplum database.*


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## 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> ]( <a href="https://www.postgresql.org/docs/9.6/static/libpq-connect.html">https://www.postgresql.org/docs/9.6/static/libpq-connect.html</a> )).
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 <a href="http://www.postgresql.org/docs/9.6/static/libpq-pgpass.html">http://www.postgresql.org/docs/9.6/static/libpq-pgpass.html</a> 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 <a href="http://www.postgresql.org/docs/9.6/static/libpq-pgservice.html">http://www.postgresql.org/docs/9.6/static/libpq-pgservice.html</a> for details on this file and syntax.
...	Other name-value pairs that describe additional connection options as described at <a href="http://www.postgresql.org/docs/9.6/static/libpq-connect.html#LIBPQ-PARAMKEYWORDS">http://www.postgresql.org/docs/9.6/static/libpq-connect.html#LIBPQ-PARAMKEYWORDS</a>
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.

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dbIsValid,GreenplumDriver-method  
*Greenplum dbIsValid method*

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### Description

Greenplum dbIsValid method

### Usage

```
## 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*

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### 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**

<code>conn</code>	a [GreenplumConnection-class] object
<code>name</code>	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.
<code>value</code>	A data.frame to write to the database.
<code>...</code>	Other arguments used by individual methods.
<code>row.names</code>	Either TRUE, FALSE, NA or a string
<code>overwrite</code>	a logical specifying whether to overwrite an existing table or not. Its default is FALSE.
<code>append</code>	a logical specifying whether to append to an existing table in the DBMS. Its default is FALSE.
<code>field.types</code>	character vector of named SQL field types where the names are the names of new table's columns.
<code>temporary</code>	If TRUE, will generate a temporary table statement.
<code>distributed_by</code>	Distribution columns for new table. NULL for random distribution.
<code>copy</code>	If TRUE, data will be copied to remote database

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 Greenplum

*Greenplum driver*


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**Description**

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

**Usage**

```
Greenplum()
```

**Examples**

```
library(RPostgres)
RGreenplum::Greenplum()
```

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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.

# Index

dbConnect, GreenplumDriver-method, [2](#)  
dbExistsTable, GreenplumConnection, character-method  
    (dbWriteTable, GreenplumConnection, character, data.frame-method),  
    [3](#)  
dbIsValid, GreenplumDriver-method, [3](#)  
dbWriteTable, GreenplumConnection, character, data.frame-method,  
    [3](#)  
  
Greenplum, [4](#)  
  
sqlCreateTable, GreenplumConnection-method,  
    [5](#)