Package 'rpostgis'

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Title PostGIS and PostgreSQL related functions
Description This package provides general usage functions for PostgreSQL and PostGIS, including geometry/raster import into R and geometry export from R to PostgreSQL.
Depends R (>= 3.3.0), RPostgreSQL
Imports methods, raster, rgdal, rgeos, sp, stats
Suggests wkb License GPL (>= 3)
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<pre>URL http://ase-research.org/basille/rpostgis</pre>
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R topics documented:
pgAddKey pgAsDate pgColumn pgColumnInfo pgComment pgDrop pgGetBoundary pgGetPts pgGetRast pgIndex pgInsert pgInsert pgInsertizeGeom pgMakePts 1 pgPostGIS 1
pgSchema

2 pgAddKey

pgSRID	 	 •	•				 •		•		•	•	•	•		•		•
pgtablenamefix	 														 			
pgVacuum	 														 			
rpostgis	 														 			

21

pgAddKey Add key

Description

Add a primary or foreign key to a table column.

Usage

Index

```
pgAddKey(conn, name, colname, type = c("primary", "foreign"), reference,
  colref, display = TRUE, exec = TRUE)
```

Arguments

conn	A connection object.
name	A character string specifying a PostgreSQL table name.
colname	A character string specifying the name of the column to which the key will be assign.
type	The type of the key, either primary or foreign
reference	A character string specifying a foreign table name to which the foreign key will be associated.
colref	A character string specifying the name of the primary key in the foreign table to which the foreign key will be associated.
display	Logical. Whether to display the query (defaults to TRUE).
exec	Logical. Whether to execute the query (defaults to TRUE).

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

 $The\ PostgreSQL\ documentation: \ http://www.postgresql.org/docs/current/static/sql-altertable.$ html

```
pgAddKey(name = c("fla", "bli"), colname = "id", type = "foreign",
    reference = c("flu", "bla"), colref = "id", exec = FALSE)
```

pgAsDate 3

Description

Convert a date field to a timestamp with or without time zone.

Usage

```
pgAsDate(conn, name, date = "date", tz = NULL, display = TRUE,
  exec = TRUE)
```

Arguments

conn	A connection object.
name	A character string specifying a PostgreSQL table name.
date	A character string specifying the date field.
tz	A character string specifying the time zone, in "EST", "America/New_York", "EST5EDT", "-5".
display	Logical. Whether to display the query (defaults to TRUE).
exec	Logical. Whether to execute the query (defaults to TRUE).

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

 $The\ PostgreSQL\ documentation: \ http://www.postgresql.org/docs/current/static/datatype-datetime. \ html$

Examples

```
pgAsDate(name = c("fla", "bli"), date = "date", tz = "GMT", exec = FALSE)
```

pgColumn	Add or remove a column	
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Description

Add or remove a column to/from a table.

Usage

```
pgColumn(conn, name, colname, action = c("add", "drop"),
  coltype = "integer", cascade = FALSE, display = TRUE, exec = TRUE)
```

4 pgColumnInfo

Arguments

conn	A connection object.
name	A character string specifying a PostgreSQL table name.
colname	A character string specifying the name of the column to which the key will be associated.
action	A character string specifying if the column is to be added ("add", default) or removed ("drop").
coltype	A character string indicating the type of the column, if action = "add".
cascade	Logical. Whether to drop foreign key constraints of other tables, if action = "drop".
display	Logical. Whether to display the query (defaults to TRUE).

exec Logical. Whether to execute the query (defaults to TRUE).

Author(s)

Mathieu Basille

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See Also

 $The Postgre SQL \ documentation: \ http://www.postgresql.org/docs/current/static/sql-altertable. \ html$

Examples

pgColumnInfo

Get information about columns in a PostgreSQL table.

Description

Get information about columns in a PostgreSQL table.

Usage

```
pgColumnInfo(conn, name, allinfo = FALSE)
```

Arguments

conn	A connection	object to a	PostgreSQL database
------	--------------	-------------	---------------------

name A character string specifying a PostgreSQL schema (if necessary), and table or

view name geometry (e.g., name = c("schema", "table"))

allinfo logical, Get all information on table? Default is column names, types, nullable,

and maximum length of character columns

pgComment 5

Value

data frame

Author(s)

David Bucklin <david.bucklin@gmail.com>

Examples

pgComment

Comment table/view/schema

Description

Comment on a table, a view or a schema.

Usage

```
pgComment(conn, name, comment, type = c("table", "view", "schema"),
  display = TRUE, exec = TRUE)
```

Arguments

conn A connection object.

name A character string specifying a PostgreSQL table, view or schema name.

comment A character string specifying the comment.

type The type of the object to comment, either table or view display Logical. Whether to display the query (defaults to TRUE). exec Logical. Whether to execute the query (defaults to TRUE).

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

 $The\ PostgreSQL\ documentation: \ http://www.postgresql.org/docs/current/static/sql-comment. \\ html$

6 pgDrop

Examples

```
pgComment(name = c("fla", "bli"), comment = "Comment on a view.",
    type = "view", exec = FALSE)
pgComment(name = "fla", comment = "Comment on a schema.", type = "schema",
    exec = FALSE)
```

pgDrop

Drop table/view/schema

Description

Drop a table, a view or a schema.

Usage

```
pgDrop(conn, name, type = c("table", "view", "schema"), ifexists = FALSE,
  cascade = FALSE, display = TRUE, exec = TRUE)
```

Arguments

conn	A connection object.
name	A character string specifying a PostgreSQL table, view or schema name.
type	The type of the object to comment, either table or view
ifexists	Do not throw an error if the table does not exist. A notice is issued in this case.
cascade	Automatically drop objects that depend on the table (such as views).
display	Logical. Whether to display the query (defaults to TRUE).
exec	Logical. Whether to execute the query (defaults to TRUE).

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

```
pgDrop(name = c("fla", "bli"), type = "view", exec = FALSE)
pgDrop(name = "fla", type = "schema", cascade = "TRUE", exec = FALSE)
```

pgGetBoundary 7

pgGetBoundary	Returns bounding envelope of all combined geometries or rasters stored in a table in a PostgreSQL database.
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Description

Retrieve bounding envelope (rectangle) of all geometries or rasters in a table in Postgresql.

Usage

```
pgGetBoundary(conn, name, geom = "geom")
```

Arguments

conn A connection object to a PostgreSQL database

name A character string specifying a PostgreSQL schema (if necessary), and table or

view name for the table holding the geometries/raster(s) (e.g., name = c("schema", "table"))

geom character, Name of the column in 'name' holding the geometry or raster object

(Default = 'geom')

Value

SpatialPolygon

Author(s)

David Bucklin <david.bucklin@gmail.com>

pgGetPts

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Load a PostGIS geometry in a PostgreSQL table/view into R.

Description

Retrieve point, linestring, or polygon geometries from a PostGIS table/view, and convert it to an R 'sp' object (Spatial* or Spatial*DataFrame)

Usage

```
pgGetPts(conn, name, geom = "geom", gid = NULL, other.cols = "*",
   query = NULL)

pgGetLines(conn, name, geom = "geom", gid = NULL, other.cols = "*",
   query = NULL)

pgGetPolys(conn, name, geom = "geom", gid = NULL, other.cols = "*",
   query = NULL)
```

Arguments

conn	A connection object to a PostgreSQL database
name	A character string specifying a PostgreSQL schema and table/view name holding the geometry (e.g., 'name = $c("schema", "table")$ ')
geom	The name of the geometry column. (Default = 'geom')
gid	Name of the column in 'name' holding the IDs. Should be unique if additional columns of unique data are being appended. gid=NULL (default) automatically creates a new unique ID for each row in the 'sp' object.
other.cols	Names of specific columns in the table to retrieve, comma seperated in one character element (e.g. other.cols='col1,col2'. The default is to attach all columns in a Spatial*DataFrame. Setting other.cols=NULL will return a Spatial-only object (no data).
query	character, additional SQL to append to modify select query from table. Must begin with "AND"; see below for examples.

Value

```
Spatial(Multi)PointsDataFrame or Spatial(Multi)Points
SpatialLinesDataFrame or SpatialLines
SpatialPolygonsDataFrame or SpatialPolygons
```

Author(s)

```
David Bucklin <david.bucklin@gmail.com>
Mathieu Basille <basille@ase-research.org>
```

pgGetRast 9

Examples

```
## Not run:
## Retrieve a SpatialPointsDataFrame with all data from table 'schema.tablename',
with geometry in the column 'geom'
pgGetPts(conn, c('schema','tablename'))
## Return a SpatialPointsDataFrame with columns c1 & c2 as data
pgGetPts(conn, c('schema','tablename'), other.cols = 'c1,c2')
## Return a SpatialPoints, retaining id from table as rownames
pgGetPts(conn, c('schema','tablename'), gid = 'table_id', other.cols = FALSE)
## End(Not run)
## Not run:
library(RPostgreSQL)
drv<-dbDriver("PostgreSQL")</pre>
conn<-dbConnect(drv,dbname='dbname',host='host',port='5432',</pre>
               user='user',password='password')
pgGetLines(conn,c('schema','tablename'))
pgGetLines(conn,c('schema','roads'),geom='roadgeom',gid='road_ID',
           other.cols=NULL, query = "AND field = \'highway\'")
## End(Not run)
## Not run:
library(RPostgreSQL)
drv<-dbDriver("PostgreSQL")</pre>
conn<-dbConnect(drv,dbname='dbname',host='host',port='5432',</pre>
               user='user',password='password')
pgGetPolys(conn,c('schema','tablename'))
pgGetPolys(conn,c('schema','states'),geom='statesgeom',gid='state_ID',
           other.cols='area,population',
           query = "AND area > 1000000 ORDER BY population LIMIT 10")
## End(Not run)
```

pgGetRast

Load a raster stored in a PostgreSQL database into R.

Description

Retrieve rasters from a PostGIS table

Usage

```
pgGetRast(conn, name, rast = "rast", digits = 9, boundary = NULL)
```

Arguments

conn	A connection object to a PostgreSQL database
name	A character string specifying a PostgreSQL schema (if necessary), and table or view name for the table holding the raster (e.g., name = $c("schema","table")$)
rast	Name of the column in 'name' holding the raster object

10 pgIndex

digits numeric, precision for detecting whether points are on a regular grid (a low

 $number\ of\ digits\ is\ a\ low\ precision)\ \hbox{-}\ From\ raster From XYZ\ function\ (\hbox{\it raster}$

package)

boundary sp object or numeric. A Spatial* object, whose bounding box will be used

to select the part of the raster to import. Alternatively, four numbers (e.g. c(north, south, east, west)) indicating the projection-specific limits with

which to clip the raster. NULL (default) will return the full raster.

Value

RasterLayer

Author(s)

David Bucklin <david.bucklin@gmail.com>

Examples

pgIndex

CREATE INDEX

Description

Defines a new index.

Usage

```
pgIndex(conn, name, colname, idxname, unique = FALSE, method = c("btree",
   "hash", "rtree", "gist"), display = TRUE, exec = TRUE)
```

Arguments

conn A connection object.

name A character string specifying a PostgreSQL table name.

colname A character string specifying the name of the column to which the key will be

associated.

idxname A character string specifying the name of the index to be created. By default,

this is the name of the table (without the schema) suffixed by _idx.

pgInsert 11

unique	Logical. Causes the system to check for duplicate values in the table when the index is created (if data already exist) and each time data is added. Attempts to insert or update data which would result in duplicate entries will generate an error.
method	The name of the method to be used for the index. Choices are "btree", "hash", "rtree", and "gist". The default method is btree.
display	Logical. Whether to display the query (defaults to TRUE).
exec	Logical. Whether to execute the query (defaults to TRUE).

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

```
The PostgreSQL documentation: http://www.postgresql.org/docs/current/static/sql-createindex. html; the PostGIS documentation for GiST indexes: http://postgis.net/docs/using_postgis_dbmanagement.html#id541286
```

Examples

pgInsert Inserts table	data from spatial objects or data frames into a PostgreSQL
------------------------	--

Description

This function takes a take an R sp object (Spatial* or Spatial*DataFrame), or a regular data frame, and performs the database insert (and table creation, if specified) on the database. The entire data frame is prepared, but if force.match specifies a database table, the R column names are compared to the force.match column names, and only exact matches are formatted to be inserted. A new database table can also be created using the create.table argument. If new.id is specified, a new sequential integer field is added to the data frame for insert. For Spatial*-only objects (no data frame), a new.id is created by default with name "gid". For pgInsertizeGeom, if the R package wkb is installed, this function will use writeWKB for certain datasets (non-Multi, non-Linestring), which is faster for large datasets. In all other cases the rgeos function writeWKT is used.

If the table specified in create.table is created, but the data insert statement fails, create.table is dropped from the database (a message will be given).

Usage

```
pgInsert(conn, data.obj, create.table = NULL, force.match = NULL,
  geom = "geom", new.id = NULL, alter.names = TRUE, encoding = NULL)
```

12 pgInsert

Arguments

conn A connection object to a PostgreSQL database data.obj A Spatial* or Spatial*DataFrame, or data frame

create.table character, schema and table of the PostgreSQL table to create. Column names

will be converted to PostgreSQL-compliant names. Default is NULL (no new

table created).

force.match character, schema and table of the PostgreSQL table to compare columns of data

frame with. If specified, only columns in the data frame that exactly match the

database table will be kept, and reordered to match the database table.

geom character string. For Spatial* datasets, the name of geometry column in the

database table. (existing or to be created; defaults to 'geom')

new.id character, name of a new sequential integer ID column to be added to the table.

(for spatial objects without data frames, this column is created even if left NULL and defaults to the name 'gid'). Must match an existing column name (and numeric type) when used with force.match, otherwise it will be discarded.

alter.names Logical, whether to make database column and table names DB-compliant (re-

move special characters). Defualt is TRUE. (This should to be set to FALSE to match to non-standard names in an existing database table using the force.match

setting.)

encoding Character vector of length 2, containing the from/to encodings for the data (as in

the function iconv). For example, if the dataset contain certain latin characters

(e.g., accent marks), and the database is in UTF-8, use encoding = c("latin1", "UTF-8").

Left NULL, no conversion will be done.

Value

DBIResult

Author(s)

David Bucklin <david.bucklin@gmail.com>

pgInsertizeGeom 13

pgInsertizeGeom	Format R data objects (data frames, spatial data frames, or spatial-
	only objects) for insert into a PostgreSQL table (for use with pgInsert).

Description

These functions take an R sp object (Spatial* or Spatial*DataFrame; for pgInsertizeGeom) or data frame (for pgInsertize) and return a pgi list object, which is used in the function pgInsert to insert rows of the object into the database table. (Note that these functions do not do any modification of the database, it only prepares the data for insert.) The entire data frame is prepared by default, unless force.match specifies a database table (along with a database connection conn), in which case the R column names are compared to the force.match column names, and only exact matches are formatted to be inserted. A new database table can also be prepared to be created (if so, the actual table is created in pgInsert) using the create.table argument. If new.id is specified, a new sequential integer field is added to the data frame. For Spatial*-only objects (no data frame), a new.id is created by default with name "gid". For pgInsertizeGeom, if the R package wkb is installed, this function uses writeWKB to translate the geometries (faster for large datasets), otherwise the rgeos function writeWKT is used.

Usage

```
pgInsertizeGeom(data.obj, geom = "geom", create.table = NULL,
  force.match = NULL, conn = NULL, new.id = NULL, alter.names = TRUE)

pgInsertize(data.obj, create.table = NULL, force.match = NULL,
  conn = NULL, new.id = NULL, alter.names = TRUE)

## S3 method for class 'pgi'
print(pgi)
```

Arguments

data.obj	A Spatial* or Spatial*DataFrame, or data frame for pgInsertize.
geom	character string, the name of geometry column in the database table. (existing or to be created; defaults to 'geom')
create.table	character, schema and table of the PostgreSQL table to create (actual table creation will be done in later in pgInsert().) Column names will be converted to PostgreSQL-compliant names. Default is NULL (no new table created).
force.match	character, schema and table of the PostgreSQL table to compare columns of data frame with. If specified, only columns in the data frame that exactly match the database table will be kept, and reordered to match the database table. If NULL, all columns will be kept in the same order given in the data frame.
conn	A database connection (if a table is given in for "force.match" parameter)
new.id	character, name of a new sequential integer ID column to be added to the table. (for spatial objects without data frames, this column is created even if left NULL and defaults to the name 'gid')
alter.names	Logical, whether to make database column and table names DB-compliant (remove special characters). Defualt is TRUE. (This will need to be set to FALSE if matching to non-standard names in an existing database table using the force.match setting.)

14 pgInsertizeGeom

pgi

A list of class pgi, output from the pgInsertize() or pgInsertizeGeom() functions from the rpostgis package.

Value

pgi A list containing four character strings- a list containing four character strings- (1) in.table, the table name which will be created or inserted into, if specified by either create.table or force.match (else NULL) (2) db.new.table, the SQL statement to create the new table, if specified in create.table (else NULL), (3) db.cols.insert, a character string of the database column names to insert into, and (4) insert.data, a character string of the data to insert. See examples for usage within the pgInsert function.

Author(s)

David Bucklin <david.bucklin@gmail.com>

```
library(sp)
data(meuse)
coords <- SpatialPoints(meuse[, c("x", "y")])</pre>
spdf<- SpatialPointsDataFrame(coords, meuse)</pre>
#format data for insert
pgi.new<-pgInsertizeGeom(spdf,geom="point_geom",create.table=c("schema","table"),new.id="pt_gid")
print(pgi.new)
## Not run:
library(RPostgreSQL)
drv<-dbDriver("PostgreSQL")</pre>
conn<-dbConnect(drv,dbname='dbname',host='host',port='5432',</pre>
               user='user',password='password')
# insert data in database table (note that an error will be given if all
# insert columns do not have exactly matching database table columns)
pgInsert(conn,pgi=pgi.new)
# Inserting into existing table
pgi.existing<-pgInsertizeGeom(spdf,geom="point_geom",force.match=c("schema","table"),conn=conn)
# A warning message is given, since the "dist.m" column is not found in the database table
# (it was changed to "dist_m" in pgi.new to make name DB-compliant).
# All other columns are prepared for insert.
print(pgi.existing)
pgInsert(conn,pgi=pgi.existing)
## End(Not run)
## Not run:
#format regular (non-spatial) data frame for insert using pgInsertize
#connect to database
```

pgMakePts 15

```
library(RPostgreSQL)
drv<-dbDriver("PostgreSQL")</pre>
conn<-dbConnect(drv,dbname='dbname',host='host',port='5432',</pre>
               user='user',password='password')
## End(Not run)
data < -data.frame(a=c(1,2,3),b=c(4,NA,6),c=c(7,'text',9))
#format non-spatial data frame for insert
values<-pgInsertize(data.obj=data)</pre>
## Not run:
# insert data in database table (note that an error will be given if all insert columns
# do not match exactly to database table columns)
pgInsert(conn,pgi=values,name=c("schema","table"))
##
#run with forced matching of database table column names
values<-pgInsertize(data.obj=data,force.match=c("schema","table"),conn=conn)</pre>
pgInsert(conn,pgi=values)
## End(Not run)
```

pgMakePts

Add a POINT or LINESTRING geometry field.

Description

Add a new POINT or LINESTRING geometry field.

Usage

```
pgMakePts(conn, name, colname = "pts_geom", x = "x", y = "y", srid,
  index = TRUE, display = TRUE, exec = TRUE)

pgMakeStp(conn, name, colname = "stp_geom", x = "x", y = "y", dx = "dx",
  dy = "dy", srid, index = TRUE, display = TRUE, exec = TRUE)
```

Arguments

conn	A connection object.
name	A character string specifying a PostgreSQL table name.
colname	A character string specifying the name of the new geometry column.
X	The name of the x/longitude field.
У	The name of the y/latitude field.
srid	A valid SRID for the new geometry.
index	Logical. Whether to create an index on the new geometry.
display	Logical. Whether to display the query (defaults to TRUE).
exec	Logical. Whether to execute the query (defaults to TRUE).
dx	The name of the dx field (i.e. increment in x direction).
dy	The name of the dy field (i.e. increment in y direction).

16 pgPostGIS

Author(s)

Mathieu Basille

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See Also

The PostGIS documentation for ST_MakePoint: http://postgis.net/docs/ST_MakePoint.html, and for ST_MakeLine: http://postgis.net/docs/ST_MakeLine.html, which are the main functions of the call.

Examples

pgPostGIS

Check and create PostGIS extension.

Description

The function checks for the availability of the PostGIS extension, and if it is available, but not installed, install it. Additionnaly, can also install Topology, Tiger Geocoder and SFCGAL extensions.

Usage

```
pgPostGIS(conn, topology = FALSE, tiger = FALSE, sfcgal = FALSE,
  display = TRUE, exec = TRUE)
```

Arguments

conn	A connection object (required, even if exec = FALSE).
topology Logical. Whether to check/install the Topology extensi	
tiger	Logical. Whether to check/install the Tiger Geocoder extension.
sfcgal	Logical. Whether to check/install the SFCGAL extension.
display	Logical. Whether to display the query (defaults to TRUE).
exec	Logical. Whether to execute the query (defaults to TRUE).

Value

TRUE if PostGIS is installed.

Author(s)

Mathieu Basille <basille@ufl.edu>

pgSchema 17

Examples

pgSchema

Check and create schema.

Description

Checks the existence, and if necessary, creates a schema.

Usage

```
pgSchema(conn, name, display = TRUE, exec = TRUE)
```

Arguments

conn A connection object (required, even if exec = FALSE).

name A character string specifying a PostgreSQL schema name.

display Logical. Whether to display the query (defaults to TRUE).

exec Logical. Whether to execute the query (defaults to TRUE).

Value

TRUE if the schema exists (whether it was already available or was just created).

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

 $The \ Postgre SQL\ documentation: \ http://www.postgresql.org/docs/current/static/sql-createschema.html$

```
## Not run:
    pgSchema(name = "schema", exec = FALSE)
## End(Not run)
```

pgSRID

pgSRID	Find the matching PostGIS SRID for a CRS object (or create a new SRID if not found)

Description

This function takes 'CRS'-class object and a PostgreSQL database connection (with PostGIS extension), and returns the matching SRID(s) for that CRS. If a match is not found, a new entry can be created in the PostgreSQL 'spatial_ref_sys' table using the parameters specified by the CRS. New entries will be created with auth_name = 'rpostgis_custom'.

Usage

```
pgSRID(CRS, conn, create = FALSE, new.srid = NULL)
```

Arguments

CRS object, created through a call to 'CRS()' from library 'sp'.

conn A connection object to a PostgreSQL database

create Logical. If no matching SRID is found, should a new SRID be created? User

must have write access on spatial_ref_sys table.

new.srid integer. Optional SRID to give to a newly created SRID. If left NULL (default),

the next open value of 'srid' in 'spatial_ref_sys' between 880000 and 890000

will be used.

Value

SRID code (integer)

Author(s)

David Bucklin <david.bucklin@gmail.com>

pgtablenamefix 19

pgtablenamefix

format input for database table names

Description

Internal rpostgis function to return common (length = 2) schema and table name vector from various table and schema + table name inputs.

Usage

```
pgtablenamefix(t.nm)
```

Arguments

t.nm

Table name string, length 1-2.

Value

character vector of length 2. Each character element is in (escaped) double-quotes.

Examples

```
name<-c("schema","table")
pgtablenamefix(name)

name<-"schema.table"
pgtablenamefix(name)

#default schema (public) is added to tables
name<-"table"
pgtablenamefix(name)

#schema or table names with "." need to be given in two length vectors:
name<-c("schema","ta.ble")
pgtablenamefix(name)</pre>
```

pgVacuum

VACUUM

Description

Performs a VACUUM (garbage-collect and optionally analyze) on a table.

Usage

```
pgVacuum(conn, name, full = FALSE, verbose = FALSE, analyze = TRUE,
  display = TRUE, exec = TRUE)
```

20 rpostgis

Arguments

conn	A connection object.
name	A character string specifying a PostgreSQL table name.
full	Logical. Whether to perform a "full" vacuum, which can reclaim more space, but takes much longer and exclusively locks the table.
verbose	Logical. Whether to print a detailed vacuum activity report for each table.
analyze	Logical. Whether to update statistics used by the planner to determine the most efficient way to execute a query (default to TRUE).
display	Logical. Whether to display the query (defaults to TRUE).
exec	Logical. Whether to execute the query (defaults to TRUE).

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

 $The\ PostgreSQL\ documentation: \ http://www.postgresql.org/docs/current/static/sql-vacuum. \ html$

Examples

```
pgVacuum(name = c("fla", "bli"), full = TRUE, exec = FALSE)
```

rpostgis	PostGIS and PostgreSQL functions	
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Description

rpostgis

Details

This package provides additional functions to the RPostgreSQL package, mostly convenient wrappers to PostgreSQL queries, with some PostGIS oriented functions. For a list of documented functions, use library(help = "rpostgis")

Author(s)

Mathieu Basille

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Index

```
pgAddKey, 2
pgAsDate, 3
pgColumn, 3
pgColumnInfo, 4
pgComment, 5
pgDrop, 6
pgGet... (pgGetPts), 8
pgGetBoundary, 7
pgGetLines(pgGetPts), 8
\verb"pgGetPolys" (\verb"pgGetPts"), 8
pgGetPts, 8
pgGetRast, 9
pgIndex, 10
pgInsert, 11
{\tt pgInsertize} \ ({\tt pgInsertizeGeom}), \ 13
pgInsertizeGeom, 13
pgMakePts, 15
pgMakeStp (pgMakePts), 15
pgPostGIS, 16
pgSchema, 17
pgSRID, 18
\verb|pgtable| patents | 19
pgVacuum, 19
print.pgi (pgInsertizeGeom), 13
rpostgis, 20
{\tt rpostgis-package} \; ({\tt rpostgis}), \\ 20
```