Package 'rpostgis'

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|---|
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| Title R interface to a PostGIS database |
| Description This package provides additional functions to the RPostgreSQL package to interface R with a PostGIS-enabled database, as well as convenient wrappers to common PostgreSQL queries. |
| Depends R (>= 3.3.0), RPostgreSQL |
| Imports methods, raster, rgeos, sp, stats |
| Suggests rgdal, wkb |
| License GPL (>= 3) |
| LazyData true |
| <pre>URL http://ase-research.org/basille/rpostgis RoxygenNote 5.0.1</pre> |
| R topics documented: |
| dbAddKey dbAsDate dbColumn dbColumnInfo dbComment dbDrop dbIndex dbSchema dbVacuum |

2 dbAddKey

| dbAd | dKey | Add key. | | | | | | | | | | | | | | |
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Description

Add a primary or foreign key to a table column.

Usage

```
dbAddKey(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). |

Value

TRUE if the key was successfully added.

Author(s)

Mathieu Basille

du>

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See Also

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

Examples

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

 ${\sf dbAsDate}$

Converts to timestamp.

Description

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

Usage

```
dbAsDate(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). |

Value

TRUE if the conversion was successful.

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

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

Examples

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

4 dbColumn

| dbColumn Add or remove a column. | |
|----------------------------------|--|
|----------------------------------|--|

Description

Add or remove a column to/from a table.

Usage

```
dbColumn(conn, name, colname, action = c("add", "drop"),
  coltype = "integer", cascade = FALSE, 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. |
| 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). |

Value

TRUE if the column was successfully added or removed.

Author(s)

Mathieu Basille

du>

See Also

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

Examples

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| dbColumnInfo Get information about columns. | |
|---|--|
|---|--|

Description

Get information about columns in a PostgreSQL table.

Usage

```
dbColumnInfo(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.

Value

data frame

Author(s)

David Bucklin <dbucklin@ufl.edu>

Examples

```
## Not run:
dbColumnInfo(conn, c("schema", "table"))
## End(Not run)
```

dbComment

Comment table/view/schema.

Description

Comment on a table, a view or a schema.

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

6 dbDrop

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).

Value

TRUE if the comment was successfully applied.

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

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

Examples

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

dbDrop

Drop table/view/schema.

Description

Drop a table, a view or a schema.

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

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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). |

Value

TRUE if the table/view/schema was successfully dropped.

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

Examples

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

dbIndex Create an index.

Description

Defines a new index on a PostgreSQL table.

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

8 dbSchema

Arguments

A connection object. conn A character string specifying a PostgreSQL table name. name A character string specifying the name of the column to which the key will be colname 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. 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 The name of the method to be used for the index. Choices are "btree", "hash", method "rtree", and "gist". The default method is "btree", although "gist" should be the index of choice for Post GIS spatial types (geometry, geography, raster). Logical. Whether to display the query (defaults to TRUE). display

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

Value

exec

TRUE if the index was successfully created.

Author(s)

Mathieu Basille

du>

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

dbSchema

Check and create schema.

Description

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

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

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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). Note: if exec = FALSE,

the function still checks the existence of the schema, but does not create it if it

does not exists.

Value

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

Author(s)

Mathieu Basille <basille@ufl.edu>

See Also

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

Examples

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

dbVacuum

Vacuum.

Description

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

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

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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

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

Examples

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

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 ${\tt pgGetBoundary}$

Retrieve bounding envelope of geometries.

Description

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

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

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Author(s)

David Bucklin <dbucklin@ufl.edu>

Examples

```
## Not run:
pgGetBoundary(conn, c("schema", "polys"), geom = "polygon")
pgGetBoundary(conn, c("schema", "rasters"), geom = "rast")
## End(Not run)
```

pgGetPts

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. |

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Value

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

Author(s)

```
David Bucklin <dbucklin@ufl.edu>
Mathieu Basille <basille@ufl.edu>
```

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:
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:
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 raster from DB.

Description

Retrieve rasters from a PostGIS table.

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

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Arguments

| conn | A connection object to a PostgreSQL database | |
|------|--|--|
| | the second secon | |

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

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

number of digits is a low precision) - From rasterFromXYZ function (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 <dbucklin@ufl.edu>

Examples

pgInsert

Inserts spatial data into a PostgreSQL table.

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".

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

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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 ta-

ble. (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 names DB-compliant (remove spe-

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

ting.)

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.

Details

If the R package wkb is installed, this function will use writeWKB for certain datasets (non-Multi types, non-Linestring), which is faster for large datasets. In all other cases the rgeos function writeWKT is used.

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

Value

DBIResult

Author(s)

David Bucklin <dbucklin@ufl.edu>

Examples

```
## Not run:
library(sp)
data(meuse)
coords <- SpatialPoints(meuse[, c("x", "y")])
spdf <- SpatialPointsDataFrame(coords, meuse)</pre>
```

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```
## Insert data in new database table
pgInsert(conn, data.obj = spdf, create.table = c("public", "meuse_data"))
## Insert into already created table
pgInsert(conn, data.obj = spdf, force.match = c("public", "meuse_data"))
## End(Not run)
```

pgInsertizeGeom

Format R data objects for insert into a PostgreSQL table.

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 can be 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 function pgInsert is a wrapper around these functions, so pgInsertize* should only be used in situations where data preparation and insert need to be seperated.

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(x, ...)
```

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) |

pgInsertizeGeom

| 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 names DB-compliant (remove 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.) |
| X | A list of class pgi, output from the pgInsertize() or pgInsertizeGeom() functions from the rpostgis package. |
| | Further arguments not used. |

Details

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 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 for some spatial types (faster with large datasets), otherwise the rgeos function writeWKT is used.

Value

pgi A list containing four character strings: (1) in.table, the table name which will be created or inserted into, if specifed 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 <dbucklin@ufl.edu>

Examples

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```
## columns)
pgInsert(conn = conn, data.obj = pgi.new)
## Inserting into existing table
pgi.existing <- pgInsertizeGeom(spdf, geom = "point_geom", force.match = c("schema",</pre>
    "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 = conn, data.obj = pgi.existing)
## End(Not run)
## Not run:
## Format regular (non-spatial) data frame for insert using
## pgInsertize connect to database
data <- data.frame(a = c(1, 2, 3), b = c(4, NA, 6), c = c(7, 3)
    "text", 9))
## Format non-spatial data frame for insert
values <- pgInsertize(data.obj = data)</pre>
## 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, data.obj = values, name = c("schema", "table"))
## Run with forced matching of database table column names
values <- pgInsertize(data.obj = data, force.match = c("schema",</pre>
    "table"), conn = conn)
pgInsert(conn, data.obj = values)
## End(Not run)
```

pgListGeomTables

List geometries.

Description

List tables with geometry columns in the database.

Usage

```
pgListGeomTables(conn)
```

Arguments

conn

A PostgreSQL database connection

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Value

A data frame with schema, table, geometry column, and geometry type.

Examples

```
## Not run:
pgListGeomTables(conn)
## 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). |

Author(s)

Mathieu Basille <basille@ufl.edu>

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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 extension. |
| 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>

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Examples

```
## 'exec = FALSE' does not install any extension, but nevertheless
## check for available and installed extensions:
## Not run:
    pgPostGIS(con, topology = TRUE, tiger = TRUE, sfcgal = TRUE,
        exec = FALSE)
## End(Not run)
```

pgSRID

Find (or create) PostGIS SRID based on CRS object.

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', with the default value being the next open value between 880001-889999 (a different SRID value can be entered if desired.)

Usage

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

Arguments

conn A connection object to a PostgreSQL database.

crs CRS object, created through a call to CRS.

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 880001 and 889999

will be used.

Value

SRID code (integer).

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Examples

rpostgis

R interface to a PostGIS database.

Description

This package provides additional functions to the RPostgreSQL package to interface R with a PostGIS-enabled database, as well as convenient wrappers to common PostgreSQL queries. For a list of documented functions, use library(help = "rpostgis").

Details

A typical session starts by establishing the connection to a working PostgreSQL database:

library(rpostgis) con <- dbConnect("PostgreSQL", dbname = <dbname>, host = <host>, user = <user>, password = password>)

For example, this could be:

con <- dbConnect("PostgreSQL", dbname = "rpostgis", host = "localhost", user = "postgres", password = "postgres")

The next step typically involves checking if PostGIS was installed on the working database, and if not try to install it:

pgPostGIS(con)

The function should return TRUE for all pg- functions to work.

Finally, at the end of an interactive session, the connection to the database should be closed:

dbDisconnect(con)

Author(s)

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