

Package ‘TSodbc’

October 27, 2009

Version 2009.5-1

Date 2009-5-06

Title Time Series Database Interface extensions for ODBC

Description TSodbc provides a ODBC interface for TSdbi.

Depends R (>= 2.8.0), methods, tframePlus, TSdbi, DBI, RODBC

Imports methods, TSdbi (>= 2009.5-1), DBI, RODBC (>= 0.6-0)

Suggests zoo, tseries, TShistQuote

Enhances TSdbi

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Author Paul Gilbert <pgilbert@bank-banque-canada.ca>

Maintainer Paul Gilbert <pgilbert@bank-banque-canada.ca>

URL <http://www.bank-banque-canada.ca/pgilbert>

Repository CRAN

Repository/R-Forge/Project tsdbi

Repository/R-Forge/Revision 90

Date/Publication 2009-10-27 07:23:22

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Description

Methods for TSdbi ODBC time series database connection.

Usage

```

## S4 method for signature 'ODBCDriver, character':
TSconnect(drv, dbname, ...)
## S4 method for signature 'character,
## TSodbcConnection':
TSget(serIDs, con,
      TSrepresentation=getOption("TSrepresentation"),
      tf=NULL, start=tfstart(tf), end=tfend(tf),
      names=serIDs, TSdescription=FALSE, TSdoc=FALSE, TSlabel=FALSE,
      vintage=getOption("TSvintage"), panel=getOption("TSpanel"), ...)
## S4 method for signature 'ANY, character,
## TSodbcConnection':
TSput(x, serIDs, con, Table=NULL,
      TSdescription.=TSdescription(x), TSdoc.=TSdoc(x), TSlabel.=TSlabel(x),
      vintage=getOption("TSvintage"), panel=getOption("TSpanel"), ...)
## S4 method for signature 'character,
## TSodbcConnection':
TSdates(serIDs, con,
         vintage=getOption("TSvintage"), panel=getOption("TSpanel"), ...)
## S4 method for signature 'character,
## TSodbcConnection':
TSdelete(serIDs, con,
         vintage=getOption("TSvintage"), panel=getOption("TSpanel"), ...)
## S4 method for signature 'character,
## TSodbcConnection':
TSdescription(x, con, ...)
## S4 method for signature 'character,
## TSodbcConnection':
TSdoc(x, con, ...)
## S4 method for signature 'character,
## TSodbcConnection':
TSlabel(x, con, ...)

## S4 method for signature 'RODBC':
dbDisconnect(conn,...)
## S4 method for signature 'RODBC, character':
dbExistsTable(conn, name, ...)
## S4 method for signature 'RODBC, character':
dbGetQuery(conn, statement, ...)

```

```

## S4 method for signature 'RODBC':
dbListTables(conn, ...)
## S4 method for signature 'ODBCDriver':
dbUnloadDriver(drv, ...)

## Default S3 method:
ODBC()

```

Arguments

<code>drv</code>	A ODBCdriver.
<code>dbname</code>	A character string indicating a database name.
<code>con</code>	A database connection.
<code>conn</code>	A database connection.
<code>name</code>	A database table.
<code>statement</code>	Character string with an SQL statement.
<code>serIDs</code>	identifiers for series to extract.
<code>x</code>	data series to put on the database, or a series identifier for <code>TSdescription</code> and <code>TSdoc</code> .
<code>TSrepresentation</code>	time series representation to use for the result.
<code>names</code>	Optional character vector to use for series names.
<code>tf</code>	Optional tframe to use for truncating data. (See <code>tfwindow</code> .)
<code>start</code>	Optional start date to use for truncating data. (See <code>tfwindow</code> .)
<code>end</code>	Optional end date to use for truncating data. (See <code>tfwindow</code> .)
<code>TSdescription</code>	TRUE or FALSE indicating whether description should be extracted
<code>TSdescription.</code>	Description to put on the database.
<code>TSdoc</code>	TRUE or FALSE indicating whether documentation should be extracted.
<code>TSdoc.</code>	Documentation to put on the database.
<code>TSlabel</code>	TRUE or FALSE indicating whether series label should be extracted.
<code>TSlabel.</code>	Short series label to put on the database.
<code>Table</code>	Database table indication (necessary if it cannot be determined automatically).
<code>vintage</code>	Vintage to be supplied (if supported by db).
<code>panel</code>	Panel to be supplied (if supported by db).
<code>...</code>	Arguments passed to other methods.

Details

These are ODBC methods for **TSdbi**. See the **TSdbi** for details and see the vignette distributed with this package for more complete examples.

Value

depends.

See Also

[TSdbi-package](#), [dbConnect](#), [TSput sqlQuery](#)

Examples

```

con <- try(TSconnect(dbDriver("ODBC"), dbname="test"))
if(! inherits(con, "try-error")) {
  z <- ts(rnorm(100), start=c(1975,1), frequency=12)
  seriesNames(z) <- "random1"
  if(TSexists("random1", con)) TSreplace(z, con) else
  TSput(z, con)
  z1 <- TSget("random1", con)
  tfplot(z1)
  z <- ts(matrix(rnorm(100),50,2), start=c(1975,1), frequency=4)
  seriesNames(z) <- c("random2","random3")
  if(TSexists("random2", con) |
     TSexists("random3", con) ) TSreplace(z, con) else
  TSput(z, con)
  z2 <- TSget("random2", con)
  tfplot(z2)
  TSdates("D1", con)
  TSdates("random2", con)
  TSdates(c("random1","random2","random3"), con)
  TSmeta("random2", con)
  options(TSconnection=con)
  z2 <- TSget(c("random2","random3"))
  z <- TSdates(c("D1","random2","random3"))
  print(z)
  TSmeta("random2")
  TSdelete("random1", con)
  TSdelete("random2")
  dbDisconnect(con)
}
con <- try(TSconnect(dbDriver("ODBC"), dbname="ets"))
if(! inherits(con, "try-error")) {
  TSmeta("B103", con)
  z1 <- TSget("B103", con)
  tfplot(z1)
  z2 <- TSget(c("B103", "B104"), con)
  tfplot(z2)
  options(TSconnection=con)
  TSmeta("B103")
  z2 <- TSget(c("B103","B104"))
  TSmeta(z2)
  TSdates("D1", con)
  TSdates("B103", con)
  TSdates(c("D1","B103","B104"), con)
  z <- TSdates(c("D1","B103","B104"))
}

```

```
print(z)
start(z)
end(z)
dbDisconnect(con)
}
```

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