

Package ‘TSMYSQL’

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Version 2013.9-1

Title TSdbi extensions for MySQL

Description TSMYSQL provides a MySQL interface for TSdbi.
Comprehensive examples of all the TS* packages is provided in the vignette Guide.pdf with the TSdata package.

Depends R (>= 2.8.0), TSdbi (>= 2013.9-1), RMySQL

Imports methods, DBI, tframe, TSsql (>= 2013.9-1)

Suggests zoo, tseries, tfplot, tframePlus

BuildVignettes true

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TSdbiMethods

*TSdbi MySQL Methods***Description**

Methods for TSdbi MySQL time series database connection.

Usage

```

## S4 method for signature 'MySQLDriver,character'
TSconnect(drv, dbname, ...)
## S4 method for signature 'character,TMySQLConnection'
TSget(serIDs, con,
      TSrepresentation=options()$TSrepresentation,
      tf=NULL, start=tfstart(tf), end=tfend(tf), names=NULL,
      TSdescription=FALSE, TSdoc=FALSE, TSlabel=FALSE, TSsource=TRUE,
      vintage=getOption("TSvintage"), panel=getOption("Tspanel"), ...)
## S4 method for signature 'ANY,character,TMySQLConnection'
TSput(x, serIDs, con, Table=NULL,
      TSdescription.=TSdescription(x), TSdoc.=TSdoc(x), TSlabel.=TSlabel(x),
      TSsource.=TSsource(x),
      vintage=getOption("TSvintage"), panel=getOption("Tspanel"), ...)
## S4 method for signature 'character,TMySQLConnection'
TSdates(serIDs, con,
        vintage=getOption("TSvintage"), panel=getOption("Tspanel"), ...)
## S4 method for signature 'character,TMySQLConnection'
TSdelete(serIDs, con,
         vintage=getOption("TSvintage"), panel=getOption("Tspanel"), ...)
## S4 method for signature 'character,TMySQLConnection'
TSdescription(x, con, ...)
## S4 method for signature 'character,TMySQLConnection'
TSdoc(x, con, ...)
## S4 method for signature 'character,TMySQLConnection'
TSlabel(x, con, ...)
## S4 method for signature 'character,TMySQLConnection'
TSsource(x, con, ...)
## S4 method for signature 'TMySQLConnection'
TSvintages(con)
## S4 method for signature 'MySQLConnection,character,ANY'
dropTStable(con, Table,
            yesIknowWhatIamDoing=FALSE)

```

Arguments

drv A MySQLDriver.
 dbname A character string indicating a database name.

| | |
|----------------------|---|
| con | A database connection. |
| serIDs | identifiers for series to extract. |
| x | data series to put on the database, or a series identifier for TSdescription and TSdoc or, for print, a database connection as returned by TSconnect. |
| TSrepresentation | time series representation to use for the result. |
| names | Optional character vector to use for series names. |
| tf | Optional tframe to use for truncating data. (See tfwindow.) |
| start | Optional start date to use for truncating data. (See tfwindow.) |
| end | Optional end date to use for truncating data. (See tfwindow.) |
| TSdescription | TRUE or FALSE indicating whether description should be extracted |
| TSdescription. | Description to put on the database. |
| TSdoc | TRUE or FALSE indicating whether documentation should be extracted. |
| TSdoc. | Documentation to put on the database. |
| TSlabel | TRUE or FALSE indicating whether series label should be extracted. |
| TSlabel. | Short series label to put on the database. |
| TSsource | TRUE or FALSE indicating whether source indication should be extracted. |
| TSsource. | Source indication to put on the database. |
| Table | Character string indicating database table. (In TSput this is necessary if it cannot be determined automatically). |
| vintage | Vintage to be supplied (if supported by db). |
| panel | Panel to be supplied (if supported by db). |
| yesIknowWhatIamDoing | logical to help prevent accidents. |
| ... | Arguments passed to other methods. |

Details

These are MySQL methods for **TSdbi**. See the **TSdbi** for details and see the vignette distributed with package **TSdata** for more complete examples. Package **TSsql** is required for functions `createTSdbTables()` and `removeTSdbTables()`. Typically `createTSdbTables()` will only be done once, and the tables will not be removed. These steps are done in the example below.

Value

depends.

See Also

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

Examples

```

require("tfplot")
conInit <- try(dbConnect(dbDriver("MySQL"), dbname="test"))
if(! inherits(conInit, "try-error")) {
  require("TSsql")
  createTSdbTables(conInit, index=FALSE)
  con <- TSconnect(dbDriver("MySQL"), dbname="test")
  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")

}
con <- try(TSconnect(dbDriver("MySQL"), 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)
}

```

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