

# Package ‘TSodbc’

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**Version** 2011.11-1

**Title** Time Series Database Interface extensions for ODBC

**Description** TSodbc provides an ODBC interface for TSdbi.

**Depends** R (>= 2.8.0), methods, tframe, tframePlus, TSdbi (>= 2011.11-1), DBI, RODBC

**Imports** methods, TSdbi (>= 2011.6-1), DBI, RODBC (>= 0.6-0)

**Suggests** zoo, tseries, TShistQuote

**Enhances** TSdbi

**BuildVignettes** false

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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=NULL,
      TSdescription=FALSE, TSdoc=FALSE, TSlabel=FALSE, TSource=TRUE,
      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),
      TSource.=TSource(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 'character,TSodbcConnection'
TSource(x, con, ...)
    ## S4 method for signature 'TSodbcConnection'
TSvintages(con)

    ## S4 method for signature 'RODBC,character,ANY'
dropTStable(con, Table,
            yesIknowWhatIamDoing=FALSE)

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

```

```

    ## S4 method for signature 'RODBC,character'
dbRemoveTable(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

drv	A ODBCdriver.
dbname	A character string indicating a database name.
con	A database connection.
conn	A database connection.
name	A database table.
statement	Character string with an SQL statement.
serIDs	identifiers for series to extract.
x	data series to put on the database, or a series identifier for TSdescription and TSdoc.
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 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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