Package ‘TSfame’

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Version 2015.4-1

Title 'TSdbi' Extensions for Fame

Description A 'fame' 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 (>= 2015.1-1)

Imports methods, DBI (>= 0.3.1), tframe, tframePlus, fame (>= 2.12), tis

Suggests tseries, tfplot, zoo

BuildVignettes true

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Description

Methods for TSdbi fame time series database connection.

Usage

```r
famelocal(...)  
fameserver(...)  
## S4 method for signature 'TSfameLocalConnection,missing'
TSconnect(q, dbname,  
accessMode = if (file.exists(dbname)) "shared" else "create",  
current = NA, ...)  
## S4 method for signature 'TSfameServerConnection,missing'
TSconnect(q, dbname,  
    service = "", host = "", user = "", password = "", current = NA, ...)

## S4 method for signature 'character,TSfameLocalConnection'
TSget(serIDs, con,  
    TSrepresentation = getOption("TSrepresentation"),  
    tf = NULL, start = tfstart(tf), end = tfend(tf), names = NULL,  
    TSdescription = FALSE, TSdoc = FALSE, TSLlabel=FALSE, TSSource=TRUE,  
    vintage=getOption("TShiveage"), ...)

## S4 method for signature 'character,TSfameServerConnection'
TSget(serIDs, con,  
    TSrepresentation = getOption("TSrepresentation"),  
    tf = NULL, start = tfstart(tf), end = tfend(tf), names = NULL,  
    TSdescription = FALSE, TSdoc = FALSE, TSLlabel=FALSE, TSSource=TRUE,  
    vintage=getOption("TShiveage"), ...)

## S4 method for signature 'ANY,character,TSfameLocalConnection'
TSput(x, serIDs=seriesNames(x),  
    con, TSdescription.=TSdescription(x),  
    TSdoc.=TSdoc(x), TSLlabel.=NULL, TSSource.=NULL, warn = TRUE, ...)

## S4 method for signature 'ANY,character,TSfameServerConnection'
TSput(x, serIDs=seriesNames(x),  
    con, TSdescription.=TSdescription(x),  
    TSdoc.=TSdoc(x), TSLlabel.=NULL, TSSource.=NULL, warn = TRUE, ...)

## S4 method for signature 'character,TSfameLocalConnection'
TSdates(serIDs, con,  
    vintage=getOption("TShiveage"), panel=NULL, ...)  
## S4 method for signature 'character,TSfameServerConnection'
TSdates(serIDs, con,  
    vintage=getOption("TShiveage"), panel=NULL, ...)
```
### S4 method for signature 'character,TSfameLocalConnection'

```r
TSexists
```

### S4 method for signature 'character,TSfameServerConnection'

```r
TSexists
```

### S4 method for signature 'character,TSfameLocalConnection'

```r
TSdelete
```

### S4 method for signature 'character,TSfameServerConnection'

```r
TSdelete
```

### S4 method for signature 'character,TSfameLocalConnection'

```r
TSdescription
```

### S4 method for signature 'character,TSfameServerConnection'

```r
TSdescription
```

### S4 method for signature 'character,TSfameLocalConnection'

```r
TSdoc
```

### S4 method for signature 'character,TSfameServerConnection'

```r
TSdoc
```

### S4 method for signature 'character,TSfameLocalConnection'

```r
TSlabel
```

### S4 method for signature 'character,TSfameServerConnection'

```r
TSlabel
```

### S4 method for signature 'character,TSfameLocalConnection'

```r
TSSource
```

### S4 method for signature 'character,TSfameServerConnection'

```r
TSSource
```

### S4 method for signature 'TSfameLocalConnection'

```r
TSvintages
```

### S4 method for signature 'TSfameServerConnection'

```r
TSvintages
```

## Arguments

- **q**: A character string indicating the query interface to use, or a database connection object.
- **dbname**: The name of the [server and] database to which the connection should be established, omitted if `q` is a database connection object.
- **con**: A database connection.
- **serIDs**: Identifiers for series to extract.
vintage  character string indicating vintage of the series on the databases.
panel    character string indicating panel of the series on the database (not supported by this database).
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**
te time series representation to use for the result.
names Optional character vector to use for series names. Defaults to serIDs unless vintage is a vector, in which case it defaults to vintage.
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
TSdescriptionN Description to put on the database.
TSdoc    TRUE or FALSE indicating whether documentation should be extracted.
TSdocN   Documentation to put on the database.
TSlable   For compatibility with other TS packages. Not supported in Fame
TSlableN  For compatibility with other TS packages. Not supported in Fame
TSSource  For compatibility with other TS packages. Not supported in Fame
TSSourceN For compatibility with other TS packages. Not supported in Fame
warn     Logical indicating if warning messages should be suppressed.
accessMode Optional character indicating the mode to use when opening the Fame database when establishing the first connection. After the first connection, "read" will be used for reading and "update" for writing.
host     A character string indicating a server.
user     A character string indicating a user id (if needed).
password A character string indicating a password (if needed).
current  A character string indicating a vintage that should be considered the current vintage (see details).
...      Arguments passed to other methods.

**Details**

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

This package provides a wrapper to the fame package to provide a TSdbi API for users. The TSfameLocalConnection establishes a connection using the locally fame which can access local databases or databases on a remote server, specified by the server name followed by a space and the database name. The TSfameServerConnection establishes a connection to a remote server using one of Fame’s remote server protocols. See package fame for more specific details.
There is a simplistic mechanism for accessing vintages of data stored in different Fame databases. To use this, the dbname argument to tsconnect should be a vector of character strings indicating the databases, with names of the elements indicating the vintages. The vintage argument to tsget is then a character vector used to select a subset of dbname. The dbname argument to tsconnect can also be specified to indicate the version that should be considered current. (That is, the user needs to know that information and specify it, rather than having it supplied by the database.) In other respects the vintages support is then similar to other TSdbi packages such as TSMYSQL, and examples in those packages may be useful. Some examples are also provided in the TSfame Guide vignette.

Value

depends.

See Also

TSdbi-package, dbConnect, TStsput, getfame

Examples

```r
require("tfplot")
con <- try(tsconnect(dbDriver("fame"), dbname="test.db"))
if(! inherits(con, "try-error")) {
  z <- ts(rnorm(100), start=c(1975,1), frequency=12)
  seriesNames(z) <- "random1"
  if(TSexists("random1", con)) TSpresent(z, con) else
    TStsget("random1", con)
    z1 <- TStsget("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)) TSpresent(z, con) else
    TStsget("random2", con)
    TStsget("random3", con)
    TSpresent(z, con)
    z2 <- TStsget("random2", con)
    tfplot(z2)
  TStsdates("D1", con)
  TStsdates("random2", con)
  TStsdates(c("random1","random2","random3"), con)
  TStsmeta("random2", con)
  options(TSconnection=con)
  z2 <- TStsget(c("random2","random3"))
  z <- TStsdates(c("D1","random2","random3"))
  print(z)
  TStsmeta("random2")
  TStsdelete("random1", con)
  TStsdelete("random2")
  dbDisconnect(con)
}
```
vintageMap

Read vintage names and file paths to use for TSconnect.

Usage

vintageMap(file)

Arguments

file A character string indicating a file.

Details

The argument file should be a character string indicating a file that will be read. The file should have lines with two space separated columns, the first indicating a name to be used for a vintage, e.g., 2009-01-07, and the second indicating the path to the database file to use for that vintage, e.g., /path/to/ets_2009-01-07.db. The file is read and the result is a string that can be passed as the dbname to TSfame’s TSconnect method.

Value

a character vector with names

See Also

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