

Package ‘CBRT’

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Type Package

Title CBRT Data on Turkish Economy

Version 0.1.1

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Description The Central Bank of the Republic of Turkey (CBRT) provides one of the most comprehensive time series databases on the Turkish economy. The 'CBRT' package provides functions for accessing the CBRT's electronic data delivery system <<https://evds2.tcmb.gov.tr/>>. It contains the lists of all data categories and data groups for searching the available variables (data series). As of November 3, 2024, there were 40,826 variables in the dataset. The lists of data categories and data groups can be updated by the user at any time. A specific variable, a group of variables, or all variables in a data group can be downloaded at different frequencies using a variety of aggregation methods.

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URL <https://github.com/etaymaz/CBRT>

Encoding UTF-8

LazyData true

Depends R (>= 3.5.0), data.table, curl

Suggests knitr, rmarkdown

VignetteBuilder knitr

RoxygenNote 7.3.2

NeedsCompilation no

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allCBRTCategories	<i>Data categories</i>
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Description

A dataset containing the list of all data categories in the CBRT dataset

Usage

allCBRTCategories

Format

A data table with 23 rows and 2 variables:

- cid** Category ID
- topic** Topic

allCBRTGroups	<i>Data groups</i>
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Description

A dataset containing the list of all data groups in the CBRT dataset

Usage

allCBRTGroups

Format

A data table with 323 rows and 10 variables:

cid Category ID

groupCode Data group code (used for downloading the data)

groupName Name of the data group

freq Time series frequency code

source Data source

sourceLink URL of the data source

revisionPolicy Revision policy for the data group

firstDate The beginning date for the data

lastDate The end date for the data

appLing URL

allCBRTSeries

Data series

Description

A dataset containing the list of all data series in the CBRT dataset

Usage

```
allCBRTSeries
```

Format

A data table frame with 22,243 rows and 12 variables:

cid Category ID

topic Topic

groupCode Data group code

groupName Name of the data group

freq Time series frequency code

seriesCode Data series code (used for downloading the data)

seriesName Name of the data series

start Starting date, DD-MM-YYYY

end Ending date, DD-MM-YYYY

aggMethod Data aggregation method

freqname Time series frequency

tag Tages (keywords)

CBRTagg	<i>Aggregation methods</i>
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Description

A dataset containing the list of aggregation methods

Usage

CBRTagg

Format

A data table frame with 6 rows and 2 variables:

Code Aggregation code

Aggregation Aggregation method

CBRTfreq	<i>Frequenciess</i>
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Description

A dataset containing the list of frequencies

Usage

CBRTfreq

Format

A data table frame with 8 rows and 4 variables:

freq Frequency code

tfreq Frequency code (internal use)

FreqEng Frequency name (English)

FreqTr Frequency name (Turkish)

getAllCategoriesInfo *Information about data categories*

Description

Creates a meta data object for all categories

Usage

```
getAllCategoriesInfo(CBRTKey = myCBRTKey)
```

Arguments

CBRTKey Your personal CBRT access key

Value

a data.table object

Examples

```
## Not run:
allCBRTCategories <- getAllCategoriesInfo()

## End(Not run)
```

getAllGroupsInfo *Information about data groups*

Description

Creates a meta data object for all data gorups

Usage

```
getAllGroupsInfo(CBRTKey = myCBRTKey)
```

Arguments

CBRTKey Your personal CBRT access key

Value

a data.table object

Examples

```
## Not run:  
allCBRTGroups <- getAllGroupsInfo()  
  
## End(Not run)
```

getAllSeriesInfo	<i>Information about data series</i>
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Description

Creates a meta data object for all data series

Usage

```
getAllSeriesInfo(CBRTKey = myCBRTKey, verbose = TRUE)
```

Arguments

CBRTKey	Your personal CBRT access key
verbose	TRUE turns on status and information messages to the console

Value

a data.table object

Examples

```
## Not run:  
allCBRTSeries <- getAllSeriesInfo()  
  
## End(Not run)
```

getDataGroup	<i>Downloading data groups</i>
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Description

Downloads all data series of a data group

Usage

```
getDataGroup(
  group,
  CBRTKey = myCBRTKey,
  freq,
  startDate = "01-01-1950",
  endDate,
  na.rm = TRUE,
  verbose = TRUE
)
```

Arguments

group	Code for the data group.
CBRTKey	Your personal CBRT access key.
freq	Numeric, the frequency of the data series. If not defined, the default (the highest possible frequency) will be used. The frequencies are as follows: 1 Day 2 Work day 3 Week 4 Biweekly 5 Month 6 Quarter 7 Six months 8 Year If a frequency level lower than the default is used, the data will be aggregated by using the default method for that data group (for example, if monthly data are download for weekly series).
startDate	The beginning date for data series (DD-MM-YYYY).
endDate	The ending date for data series (DD-MM-YYYY). If not defined, the default (the latest available) will be used.
na.rm	Logical variable to drop all missing dates.
verbose	TRUE turns on status and information messages to the console.

Value

a data.table object

Examples

```
## Not run:
myData <- getDataGroup("bie_dbafod")

## End(Not run)
```

getDataSeries

Downloading data series

Description

Downloads one or more data series from the CBRT datasets.

Usage

```
getDataSeries(
  series,
  CBRTKey = myCBRTKey,
  freq,
  aggType,
  startDate = "01-01-1950",
  endDate,
  na.rm = TRUE
)
```

Arguments

series	A vector of data series' codes.
CBRTKey	Your personal CBRT access key.
freq	Numeric, the frequency of the data series. If not defined, the default (the highest possible frequency) will be used. The frequencies are as follows: 1 Day 2 Work day 3 Week 4 Biweekly 5 Month 6 Quarter 7 Six months 8 Year
aggType	Aggregation of data series. This parameter defines the method to be used to aggregate data series from high frequency to low frequency (for example, weekly data to monthly data). The following methods are available: avg Average value first First observation last Last observation max Maximum value min Minimum value sum Sum

	If a frequency level lower than the default is used, the data will be aggregated by using the default method for that data group (for example, if monthly data are download for weekly series).
startDate	The beginning date for data series (DD-MM-YYYY).
endDate	The ending date for data series (DD-MM-YYYY). If not defined, the default (the latest available) will be used.
na.rm	Logical variable to drop all missing dates.

Value

a data.table object

Examples

```
## Not run:
mySeries <- getDataSeries("TP.D1TOP")
mySeries <- getDataSeries(c("TP.D1TOP", "TP.D2HAZ", "TP.D4TCMB"))
mySeries <- getDataSeries(c("TP.D1TOP", "TP.D2HAZ", "TP.D4TCMB", startDate="01-01-2010"))

## End(Not run)
```

searchCBRT	<i>Variable search</i>
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Description

Search for keywords in the CBRT datasets

Usage

```
searchCBRT(keywords, field = c("groups", "categories", "series"), tags = FALSE)
```

Arguments

keywords	A vector of keywords
field	The name of the field to be searched ("groups", "categories" or "series"). We recommend searching first the "groups" names.
tags	A logical variable that indicates if the tags to be searched

Value

a data.table object

Examples

```
searchCBRT(c("production", "labor", "labour"))
searchCBRT(c("production", "labor", "labour"), field = "series")
searchCBRT(c("production", "labor", "labour"), tags = TRUE)
```

showGroupInfo	<i>Information about a data group</i>
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Description

Shows information about a data group

Usage

```
showGroupInfo(gCode, verbose = TRUE)
```

Arguments

gCode	the code for the data group
verbose	TRUE turns on status and information messages to the console

Value

a data.table object

Examples

```
showGroupInfo("bie_apifon")
```

showSeriesNames	<i>Showing variable names</i>
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Description

Shows the names of all variables in a data group

Usage

```
showSeriesNames(gCode)
```

Arguments

gCode	the code for the data group
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showSeriesNames

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Value

a data.table object

Examples

```
showSeriesNames("bie_apifon")
```

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