

# 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.

**License** GPL-3

**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

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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

*Aggregation methods*


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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

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 CBRTfreq

*Frequenciess*


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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)

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*getAllCategoriesInfo*    *Information about data categories*

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**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)
```

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*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      *Information about data series*

---

**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)
```

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getDataGroup      *Downloading data groups*

---

**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: <ol style="list-style-type: none"> <li>1 Day</li> <li>2 Work day</li> <li>3 Week</li> <li>4 Biweekly</li> <li>5 Month</li> <li>6 Quarter</li> <li>7 Six months</li> <li>8 Year</li> </ol> <p>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).</p>
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)

```

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<code>getDataSeries</code>	<i>Downloading data series</i>
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### 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

<code>series</code>	A vector of data series' codes.
<code>CBRTKey</code>	Your personal CBRT access key.
<code>freq</code>	Numeric, the frequency of the data series. If not defined, the default (the highest possible frequency) will be used. The frequencies are as follows: <b>1</b> Day <b>2</b> Work day <b>3</b> Week <b>4</b> Biweekly <b>5</b> Month <b>6</b> Quarter <b>7</b> Six months <b>8</b> Year
<code>aggType</code>	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: <b>avg</b> Average value <b>first</b> First observation <b>last</b> Last observation <b>max</b> Maximum value <b>min</b> Minimum value <b>sum</b> 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 downloaded 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)
```

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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)
```

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showGroupInfo                    *Information about a data group*

---

**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")
```

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showSeriesNames                *Showing variable names*

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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

*showSeriesNames*

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**Value**

a data.table object

**Examples**

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

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