

Package ‘siebanxicor’

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Type Package

Title Query Data Series from Bank of Mexico

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Description Allows to retrieve time series of all indicators available in the Bank of Mexico's Economic Information System (<<http://www.banxico.org.mx/SieInternet/>>).

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getSerieDataFrame	<i>Get a data.frame from an series Vector</i>
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Description

This is an utility function, it allows to obtain a data.frame from the vector returned by [getSeriesData](#).

Usage

```
getSerieDataFrame(series, idSerie)
```

Arguments

series	A vector containing data series. This is the vector returned by getSeriesData .
idSerie	A string identifying the series required, it can only be one.

Value

A data.frame containing the required data series.

Examples

```
## Not run:
## You need a valid token to run the example
setToken("token")

series <- getSeriesMetadata(c("SF43718", "SF46410", "SF46407"))

serie <- getSerieDataFrame(series, "SF43718")

## End(Not run)
```

getSeriesCurrentValue	<i>Time series current value</i>
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Description

Recovers last value of the indicated time series (up to 100) from [SIE](#).

Usage

```
getSeriesCurrentValue(series)
```

Arguments

series	A vector containing idSeries
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Details

This function queries the last value of each series requested. This value corresponds to the last one published by Banco de México.

The data series are queried through the [SIE API](#). This API requires that every request is identified by a token. The token can be requested [here](#). Once the query token has been obtained and prior to use any function from this Package, the token must be set in the current query session, using the function `setToken`.

Value

A data.frame containing the data series requested.

Examples

```
## Not run:
## You need a valid token to run the example
setToken(token)
idSeries <- c("SF43718", "SF46410", "SF46407")
seriesDataFrame <- getSeriesCurrentValue(idSeries)

serieDataFrame <- getSeriesCurrentValue("SF43718")

## End(Not run)
```

`getSeriesData`*Query time series*

Description

Recovers data of the indicated time series (up to 100) from [SIE](#).

Usage

```
getSeriesData(series, startDate = NULL, endDate = NULL)
```

Arguments

<code>series</code>	A vector containing <code>idSeries</code>
<code>startDate</code>	A string with "yyyy-MM-dd" format. Defines the date on which the period of obtained data starts.
<code>endDate</code>	A string with "yyyy-MM-dd" format. Defines the date on which the period of obtained data concludes.

Details

The data series are queried through the [SIE API](#). This API requires that every request is identified by a token. The token can be requested [here](#). Once the query token has been obtained and prior to use any function from this Package, the token must be set in the current query session, using the function [setToken](#).

To get a data.frame representing one data series use [getSerieDataFrame](#).

Value

A vector containing the data series requested.

Examples

```
## Not run:
## You need a valid token to run the example
setToken("token")
idSeries <- c("SF43718", "SF46410", "SF46407")
series <- getSeriesData(idSeries, '2016-01-01', '2018-07-12')

serie <- getSeriesData("SF43718")

## End(Not run)
```

getSeriesMetadata	<i>Query time series metadata</i>
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Description

Recovers metadata of the indicated time series (up to 100) from [SIE](#).

Usage

```
getSeriesMetadata(series, locale = "en")
```

Arguments

series	A vector containing idSeries.
locale	A string defining the language of the metadata. It can be obtained either in English ("en") or Spanish ("es").

Details

The series metadata are queried through the [SIE API](#). This API requires that every request is identified by a token. The token can be requested [here](#). Once the query token has been obtained and prior to use any function from this Package, the token must be set in the current query session, using the function [setToken](#).

The information can be obtained either in English ("en") or Spanish ("es"), defining the parameter locale. By default the metadata are retrieved in English.

Value

A data.frame containing the required metadata.

Examples

```
## Not run:
## You need a valid token to run the example
setToken(token)
series <- getSeriesMetadata(c("SF43718", "SF46410", "SF46407"))

serie <- getSeriesMetadata("SF43718")

## End(Not run)
```

setToken	<i>Set the query token</i>
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Description

Set the token required to query series from [SIE](#).

Usage

```
setToken(token)
```

Arguments

token A string that corresponds to the query token obtained.

Details

This configuration is required prior to any function call pertaining to this package. The [API](#) used by siebanxicor requires that every request made, be identified by a token. Otherwise the query will be rejected. In order to work properly with this package is necessary to get a token [here](#).

Before any request can be made with other functions, the obtained token must be set.

Examples

```
# an own token must be obtained
token <- "d4b584b43a1413f56e5abdcc0f9e74db112ce9bb2f1580c80cb252f5a18b30a21"
setToken(token)
```

Description

This package is aimed at querying data series from Banco de México.

Details

siebanxicor allows to retrieve the time series of all indicators available in [SIE](#). This tool aims at developers and analysts who seek to make automatic the retrieval of the economic information published by Banco de México.

This package uses the [SIE API](#) to obtain the data series published. This API requires that every request be identified by a token. This query token can be obtained [here](#). The query token can be used in multiple requests, as long as the query limits are respected ([more information](#)).

To start using the functions included in this package, is mandatory first to set the token using [setToken](#):

```
token <- "d4b584b43a1413f56e5abdcc0f9e74db112ce9bb2f1580c80cb252f5a18b30a21"
setToken(token)
```

The string token is only an example, an own token must be generated in the aforementioned link.

Once the token has been set, the data series can be retrieved using [getSeriesData](#):

```
idSeries <- c("SF43718","SF46410","SF46407")
series <- getSeriesData(idSeries)
```

The time period retrieved can be limited using the parameters `startDate` and `endDate`. These parameters are strings that represent a date in the format "yyyy-MM-dd". If one of these dates is omitted the entire data are returned.

```
idSeries <- c("SF43718","SF46410","SF46407")
series <- getSeriesData(idSeries, startDate='2016-01-01',endDate='2018-07-12')
```

It is also possible to query only the current value of certain time series. The function [getSeriesCurrentValue](#) accomplishes this task:

```
idSeries <- c("SF43718","SF46410","SF46407")
seriesDataFrame <- getSeriesCurrentValue(idSeries)

serieDataFrame <- getSeriesCurrentValue("SF43718")
```

The value returned is the last one published in SIE.

The series metadata can be queried with the function `getSeriesMetadata`:

```
series <- getSeriesMetadata(c("SF43718", "SF46410", "SF46407"))
```

The idSeries required to use this package can be found in [SIE](#) and in the ["Series catalogue"](#)

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