Package 'esa'

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Type Package

Title RSDX Import Helper from the Statistics Estonia

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Description This package provides essential helper functions to import data from
Statistics Estonia (ESA) directly to R and more imporantly, also to convert the bizzare
structure of ESA statistics into proper time series.
Initial idea, motivation and parts of the code has been written by Taavi Unt and Andres Võrk

Imports rsdmx,
dplyr,
magrittr,
lubridate,
methods,
stringr,
xml2,
rvest

License What license is it under?

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Depends R (>= 2.10)

R topics documented:

ESA.list   *List all available SDMX tables*

Description

Get the list of all tables available in Statistical Office of Estonia

Usage

```
ESA.list(update = FALSE)
```

Arguments

update   Boolean. If true, then the table will be recreated from internet. Otherwise it's
                  loaded from memory

Examples

```
## Not run:
ESA.list() # Lists all the tables
ESA.list(update = TRUE)  # Updates the list

## End(Not run)
```

ESA.metadata   *Get Metadata*

Description

Gets table structure information from Estonian Statistical Office

Usage

```
ESA.metadata(table)
```

Arguments

table   A string, representing the name of the table

Value

This function creates a dataframes with list of variables and dimensions in the table

Examples

```
ESA.metadata("IA02")
```

ESA.monthly *Creates monthly time series from the data Use as*

Description

Dpendencies:

Usage

```
ESA.monthly(table, year = "obsTime", month = "DIM3", name = "obsDate")
```

Arguments

table	dataframe of the raw data, returned from the statistical offic
year	optional column name for the year data. Defaults to obsTime
month	optional column name for the month data. Defaults to DIM3
name	optional column name for the newly created date field. Defaults to obsDate

Value

dataframe with the newly created time column

Examples

```
## Not run:
ESA.monthly(data)
ESA.monthly(data, month = 'DIM2')

## End(Not run)
```

ESA.quarterly *Creates monthly time series from the data Use as*

Description

Dpendencies:

Usage

```
ESA.quarterly(table, year = "obsTime", quarter = "DIM3", name = "obsDate")
```

Arguments

table	dataframe of the raw data, returned from the statistical offic
year	optional column name for the year data. Defaults to obsTime
quarter	optional column name for the quarterly data. Defaults to DIM3
name	optional column name for the newly created date field. Defaults to obsDate

Value

dataframe with the newly created time column

Examples

```
## Not run:
ESA.quarterly(data)
ESA.quarterly(data, quarter = 'DIM3')

## End(Not run)
```

ESA.query   *Dependencies*

Description

Requests data from Statistical Office of Estonia (ESA)

Usage

```
ESA.query(table, restrictions = NA, start = NA, end = NA)
```

Arguments

table	A string of a table name. e.g IA02
restrictions	A string or vector of an optional restrictions list.
start	An optional year number for start of the data
end	An optional year number for end of the data

Value

A string of url for database query

Examples

```
## Not run:
ESA.url("IA02")  # Returns a whole CPI table
ESA.url("IA02", '1')  # Returns a CPI table for id = 1 Total
ESA.url("IA02", c('1+3','1+2'), 1995, 2000) # Returns CPI table for Total and Alcohol, January and February in dates

## End(Not run)
```

ESA.reset *Clears metadata from global environment*

Description

Clears metadata from global environment

Usage

```
ESA.reset()
```

Value

Clears metadata from global environment

ESA.titles *Table title*

Description

Returns title of the table

Usage

```
ESA.titles(table)
```

Arguments

table   A string of a table name. e.g IA02

Value

dataframe of official titles of the table from Statistics Estonia

Examples

```
ESA.titles("IA02")
```

ESA.url   *Creates url from table and restrictions*

Description

Creates url from table and restrictions

Usage

```
ESA.url(table, restrictions = NA, start = NA, end = NA)
```

Arguments

table	A string of a table name. e.g IA02
restrictions	A string or vector of an optional restrictions list.
start	An optional year number for start of the data
end	An optional year number for end of the data

Value

A string of url for database query

Examples

```
ESA.url("IA02")  # Returns a whole CPI table
ESA.url("IA02", '1')  # Returns a CPI table for id = 1 Total
ESA.url("IA02", c('1+3','1+2'), 1995, 2000) # Returns CPI table for Total and Alcohol, January and February in dates
```

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