

Package ‘leerSIECyL’

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Type Package

Title Read Data from the SIE

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Date 2018-04-17

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Description Functions to download data from the SIE, which is the Statistical Information System (Sistema de Información Estadística) in the Statistical Portal of the Government of Castilla y León (Spain) <<https://estadistica.jcyl.es>>.

Depends R (>= 3.2), RCurl

License GPL-2

Encoding latin1

NeedsCompilation no

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leerSIECyL-package *Read Data from the SIE*

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Details

The DESCRIPTION file:

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leerSIECyL-package    Read Data from the SIE
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```

The SIECyL is the System of Statistical Information (Sistema de Información Estadística) of the government of Castilla y León (Spain). Access to the data is possible through the page <http://estadistica.jcyl.es>, but also using a query API. This package uses this API to access any of the modules, at the moment only Datos Básicos, Coyuntura and Padrón. The three main functions are: leerDB to obtain data from the Datos Básicos module leerCoyuntura to do it from the Coyuntura module. leerPadron to do it from the Padrón module.

Author(s)

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componerPeriodos *Function to create a vector of texts with the periods to consult*

Description

Function to create a vector of texts with the periods to consult.

Usage

```
componerPeriodos(annos, mes = NULL, frecuencia = "TRIMESTRE")
```

Arguments

annos	A vector with the years to consult.
mes	Number to indicate the periods within the year to consult.
frecuencia	Type of period. Year (A), Quarter (T) or Month (M)

Details

The parameter mes is a number between 1 and 4 if the parameter frecuencia is Quarterly, from 1 to 12 if it is monthly and it is not used if it is annual, the frequency parameter is a text of which only the first letter is used: A or Y for annual, Q or T for quarterly or M for monthly.

Value

A vector with the periods in the format necessary for the consult.

Examples

```
##----Example
componerPeriodos(2007:2009,2:4,'Q')
componerPeriodos(2017,frecuencia='M')
componerPeriodos(2017,frecuencia='A')
```

leerCoyuntura

Read data from the Coyuntura module.

Description

Read data from the Coyuntura module, indicating the variables, periods, zone and frequency.

Usage

```
leerCoyuntura(variables = NULL, periodos = NULL,
               nivel="COMUNIDAD AUTONOMA",zonas=NULL, frecuencia = "TRIMESTRE")
```

Arguments

variables	The names of the variables for read.
periodos	The periods for the data. If the frequency is for years they are the numbers of the years, if it is quarterly the format is N° TRIM. YYYY, N is the quarter and YYYY the year. If the frequency is monthly the format is MM-YYYY with MM being the month number, always with two digits: 01, 02, ..., 12.
nivel	The level of disaggregation : PROVINCIA or COMUNIDAD AUTONOMA
zonas	A vector with the provinces if nivel is "PROVINCIA" or "CASTILLA y LEON" y/o "ESPAÑA" if nivel is "COMUNIDAD AUTONOMA"
frecuencia	The frequency of the data: YEAR (AÑO), QUARTER (TRIMESTRE) or MONTH (MES)

Details

If variables, periodos or zonas are NULL the data obtained are all available without considering the relevant condition.

Value

A data.frame with the data. If there is an error return NULLL. The data.frame with 5 columns. The columns are: ZONA: the name of province or comunidad. SERIE: The name of the variable. UNIDAD DE MEDIDA: The units of variable. ANNO or TRIMESTRE or MES : The period of the data. Valor: The data.

Examples

```
##-Examples
```

```
datos=leerCoyuntura(nivel="PROVINCIA",periodos="1º TRIM. 2017")
```

leerDB	<i>Read data from the Datos Básicos module.</i>
--------	---

Description

Read data from the Datos Básicos module, indicating the years, the provinces and / or the municipalities and the variables that are to be obtained.

Usage

```
leerDB(anno=as.numeric(substr(Sys.Date(),1,4))-1, provincias = NULL,
      municipios = "TODOS",
      variables = "POBLACION DE DERECHO (TOTAL)")
```

Arguments

anno	A vector with the years for the data. If NULL read all available years.
provincias	A vector with the provinces for the data. If is NULL read all available provinces. If not is NULL and municipios is NULL read data only for the provinces.
municipios	A vector with the municipalities for the data. The name is of the form 'CCCCC Name', where CCCCC is the INE code and Name the name in uppercase of the municipality. The list of all municipalities can be obtained by setting "ALL" or "TODOS" in this parameter.
variables	A vector with the names of the variables. The list of all variables can be obtained by setting NULL in this parameter. The default is 'POBLACIÓN DE DERECHO (TOTAL)'.

Value

A data.frame with the data. If there is an error return NULLL. The data.frame with 4 columns if municipios is NULL or 5 columns if it is not. The columns are: COD_MUNICIPIO: the name of municipality, if municipios not is NULL. COD_PROVINCIA: The name of the province. COD_ORDEN_VARIABLE: The name of the variable. FECHA: The date of the data. Valor: The data.

Examples

```
## Example

datos=leerDB(2017,provincias=c("PALENCIA", "VALLADOLID"))
municipios=leerDB(2017)
variables=leerDB(2016,provincias="VALLADOLID",municipios="NULL",variables=NULL)
```

leerPadron

Read data from the Padron module.

Description

Read data from the Padron module.

Usage

```
leerPadron(anno=NULL, nivel="PROVINCIA", provincias=NULL, municipios=NULL,
           sexos=NULL, edades=NULL, gruposEdad=NULL, nacionalidad=NULL, total=FALSE)
```

Arguments

anno	A vector with the years for the data. If NULL read all available years.
nivel	The desagregation nivel of the data: MUNICIPIO, PROVINCIA or COMUNIDAD.
provincias	A vector with the provinces for the data. If is NULL and nivel is PROVINCIA read all available provinces.
municipios	A vector with the municipalities for the data. The name is of the form 'CCCCC Name', where CCCCC is the INE code and Name the name in uppercase of the municipality. The list of all municipalities can be obtained by setting nivel="MUNICIPIOS" and municipios=NULL.
sexos	If it is not null, the data is desegregated by sex. If it's TODOS they all come out, you can put VARON or MUJER.
edades	If it is not null, the data is desegregated by age. If it's TODAS they all come out, you can put a vector of ages.
gruposEdad	If it is not null, the data is desegregated by age group. If it's TODOS they all come out, you can put a vector of age groups. Id edades is not NULL is ignored.
nacionalidad	If it is not null, the data is desegregated by nationality. If it's TODAS they all come out, you can put a vector of nationalities.
total	If TRUE, the totals of each variable are output.

Value

A data.frame with the data. If there is an error return NULLL.

Examples

```
## Example

a1=leerPadron(anno=2015:2017, nivel="PROVINCIA",
             municipios=NULL, gruposEdad="DE 10 A 14", total=TRUE)
```

rellenar	<i>Fill empty elements of a vector.</i>
----------	---

Description

Fill empty elements of a vector with the last non-empty previous

Usage

```
rellenar(x)
```

Arguments

x The vector to be filled

Value

The vector filled.

Examples

```
##Example  
a1=c(2,NA,NA,3,NA,4,5,NA,NA)  
rellenar(a1)
```

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