Package 'INEbaseR'

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Maintainer Andres Nacimiento <andresnacimiento@gmail.com></andresnacimiento@gmail.com>
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2 get_geographical

Description

This function returns the content of a RDS file in cache

Usage

```
get_cache_rds(object, type = "SERIEOPERATION")
```

Arguments

object (string) an object of the "type" option

type (string) type of content do you want to read, type = "/POLYGONS-" by default

Examples

```
get_cache_rds("provincias", type = "POLYGONS")
get_cache_rds("comunidades_autonomas", type = "POLYGONS")
get_cache_rds("municipios", type = "POLYGONS")
get_cache_rds("natcodes", type = "DATATABLE")
get_cache_rds(4, type = "SERIEOPERATION")
```

get_geographical

Get geographical

Description

This function returns geographical information

Usage

```
get_geographical(code = NULL, resource = "variable", all = FALSE,
  verbose = FALSE, natcode = NULL, geocode = NULL,
  exponential_notation = FALSE, help = FALSE)
```

Arguments

code (string) serie id

resource (string) resource to access, by default resource = "variable" to get serie meta-

data. Possible values are variable, natcode or natcode_to_geocode

all (boolean) if all = TRUE you will get all natcodes verbose (boolean) show more information during the process

natcode (int) geographical code from INE

geocode (string) geographical code from Eurostat

exponential_notation

(boolean) to show or not exponential notation. e.g. e+10

help (boolean) type any value for resource param and type help = TRUE to see

params available for this resource.

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Examples

```
get_geographical("IPC251522")
get_geographical(resource = "variable", help = TRUE)
get_geographical("IPC251522", resource = "natcode")
get_geographical(natcode = 34050000000, resource = "natcode_to_geocode")
```

get_metadata_crossing Get metadata crossing

Description

This function returns data or metadata by metadata crossing

Usage

```
get_metadata_crossing(code = NULL, resource = "series", help = FALSE,
  query = NULL, p = 1, det = 0, tip = NULL, nlast = 1,
  lang = "ES")
```

Arguments

code	(string) operation identificator
resource	(string) resource to access, by default resource = "metadata" to get serie metadata. Possible values are series or data
help	(boolean) type any value for resource param and type help = TRUE to see params available for this resource.
query	(string) string separated by AND with syntax variable = value using natural language
р	(int) periodicity, p = 1 by default
det	(int) $det = 2$ to see two levels of depth, specifically to access the PubFechaAct object, $det = 0$ by default
tip	(string) tip = M to obtain the metadata (crossing variables-values) of the series
nlast	last n values
lang	(string) language used to obtain information

Examples

```
get_metadata_crossing(resource = "series", help = TRUE)
get_metadata_crossing("IPC", resource = "series", query = "Provincias = Madrid AND Tipo de dato = Variacion mensus
get_metadata_crossing("IPC", resource = "data", query = "Provincias = Madrid AND Tipo de dato = Variacion mensus
```

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get_operations
Get operations

Description

This function returns information about operations

Usage

```
get_operations(code = NULL, resource = "all", help = FALSE,
ioe = FALSE, geographical_granularity = NULL,
temporal_granularity = NULL, verbose = TRUE, lang = "ES")
```

Arguments

code

resource (string) resource to access, by default resource = "metadata" to get serie metadata. Possible values are all, metadata, variables_values or by_granularity help (boolean) type any value for resource param and type help = TRUE to see

params available for this resource.

(string) operation identificator

ioe (boolean) TRUE if code is in format IO30138, and FALSE by default

geographical_granularity

(string) geographical granularity

temporal_granularity

(string) temporal granularity

verbose (boolean) show more information during the process

lang (string) language used to obtain information

Examples

```
get_operations()
get_operations(resource = "all")
get_operations(resource = "all", help = TRUE)
get_operations("IPC", resource = "metadata")
get_operations("IPC", resource = "variables_values")
get_operations(resource = "by_granularity", geographical_granularity = "PROV")
```

get_publications

Get publications

Description

This function returns all available publications from an operation or a date

Usage

```
get_publications(code = NULL, resource = "all", help = FALSE,
  det = 0, ioe = FALSE, lang = "ES")
```

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Arguments

code	(string) operation or publication indentificator
resource	(string) resource to access, by default resource = "all" to get serie metadata. Possible values are all, operation or date
help	(boolean) type any value for resource param and type $help = TRUE$ to see params available for this resource.
det	(int) \det = 2 to see two levels of depth, specifically to access the PubFechaAct object, \det = 0 by default
ioe	(boolean) TRUE if code is in format IO30138, and FALSE by default
lang	(string) language used to obtain information

Examples

```
get_publications()
get_publications(resource = "all", help = TRUE)
get_publications("IPC", resource = "operation")
get_publications(8, resource = "date")
```

get_series Get series	
get_series Get series	

Description

This function returns data or metadata from an operation, table or a serie

Usage

```
get_series(code = NULL, resource = "metadata", help = FALSE,
ioe = FALSE, det = 0, tip = NULL, lang = "ES",
date_start = NULL, date_end = NULL, nlast = NULL,
classification = NULL, verbose = FALSE, benchmark = FALSE,
geographical_granularity = NULL, temporal_granularity = NULL)
```

(string) language used to obtain information

(string) start date in format YYYY-MM-DD

Arguments

lang

 $date_start$

_	
code	(string) serie, operation or table identificator
resource	(string) resource to access, by default resource = "metadata" to get serie metadata. Possible values are metadata, operation, values, table, metadataoperation, data, by_graor nlast
help	(boolean) type any value for resource param and type help = TRUE to see params available for this resource.
ioe	(boolean) TRUE if code is in format IO30138, and FALSE by default
det	(int) det = 2 to see two levels of depth, specifically to access the PubFechaAct object, det = 0 by default
tip	(string) tip = M to obtain the metadata (crossing variables-values) of the series

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date_end (string) end date in format YYYY-MM-DD nlast (int) last n serie values classification (string) serie classification, if classification = NULL this value will be autodetected verbose (boolean) to show more information about this process, verbose = FALSE by default benchmark (boolean) used to measure the performance of the system, benchmark = FALSE by default. geographical_granularity

(string) geographical granularity

temporal_granularity

(string) temporal granularity

Examples

```
get_series("IPC206449")
get_series(resource = "metadata", help = TRUE)
get_series("IPC", resource = "operation")
get_series("IPC206449", resource = "values")
get_series(22350, resource = "table")
get_series("IPC251541", resource = "nlast")
get_series("IPC206449", resource = "data", nlast = 5)
get_series("IPC", resource = "by_granularity", geographical_granularity = "CCAA", verbose = TRUE)
get_series("IPC251539", resource = "by_common_parameters", verbose = TRUE)
```

get_tables

Get tables

Description

This function returns data / metadata from tables

Usage

```
get_tables(code = NULL, resource = "operation", help = FALSE,
 grp = NULL, geo = 0, nlast = 0, det = 0, tip = NULL,
 ioe = FALSE, lang = "ES")
```

Arguments

code	operation (string/int) or table (int) identificator
resource	(string) resource to access, by default resource = "operation" to get tables of an operation. Possible values are operation, group, group_values or data
help	(boolean) type any value for resource param and type help = TRUE to see params available for this resource
grp	(int) group identification
geo	(int) use $geo = 1$ to access only tables with geographic content, $geo = 0$ by default
nlast	last n values

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det	(int) use det = 2 to see two levels of depth, specifically to access the PubFechaAct object, det = 0 by default
tip	(string) use tip = "A" to view as friendly, specifically the view the field ultima_modificacion or use tip = "AM" to obtain the metadata (crossing variables-values) of the series and a friendly output.
ioe	(boolean) use ioe = TRUE if code is in format IO30138, and FALSE by default
lang	(string) language used to obtain information

Examples

```
get_tables("IPC")
get_tables(resource = "operation", help = TRUE)
get_tables(25, resource = "operation")
get_tables(22350, resource = "group")
get_tables(22350, grp = 81497, resource = "group_values")
get_tables(22350, nlast = 5, resource = "data")
```

get_values Get values

Description

This function returns values from a variable or variable operation

Usage

```
get_values(code = NULL, resource = "all", operation = NULL,
help = FALSE, det = 0, ioe = FALSE, lang = "ES")
```

Arguments

code	(int) variable indentificator
resource	(string) resource to access, by default resource = "all" to get serie metadata. Possible values are all or variable_operation
operation	(string) operation indentificator
help	(boolean) type any value for resource param and type help = TRUE to see params available for this resource.
det	(int) $det = 1$ to see the detail of the variable to which it belongs, $det = 0$ by default
ioe	(boolean) TRUE if code is in format IO30138, and FALSE by default
lang	(string) language used to obtain information

Examples

```
get_values(115)
get_values(resource = "all", help = TRUE)
get_values(762, operation = "IPC", resource = "variable_operation")
```

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get_variables	Get variables
get_vai tabies	Get variables

Description

This function returns all or operations variables

Usage

```
get_variables(code = NULL, resource = "all", help = FALSE,
ioe = FALSE, lang = "ES")
```

Arguments

code	(string) operation identifier
resource	(string) resource to access, by default resource = "metadata" to get serie metadata. Possible values are all or operation $\frac{1}{2}$
help	(boolean) type any value for resource param and type $help = TRUE$ to see params available for this resource.
ioe	(boolean) TRUE if code is in format I030138, and FALSE by default
lang	(string) language used to obtain information

Examples

```
get_variables()
get_variables(resource = "all", help = TRUE)
get_variables("IPC", resource = "operation")
```

represent_series Represent series

Description

This function allows representing series data in maps or charts

Usage

```
represent_series(code = NULL, resource = "maps", help = FALSE,
  nlast = 0, date_start = NA, date_end = NA, classification = NULL,
  map_scale = 60, verbose = FALSE, benchmark = FALSE, det = 0,
  type = NA, lang = "ES")
```

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Arguments

code	(string) serie identificator
resource	(string) resource to access, by default resource = "all" to get serie metadata. Possible values are maps, plot or highcharts
help	(boolean) type any value for resource param and type help = TRUE to see params available for this resource.
nlast	(int) last n serie data, if nult = 0 this value will be auto-calculated
date_start	(date) start date in format (string) YYYY-MM-DD
date_end	(date) end date in format (string) YYYY-MM-DD
classification	(string) serie classification, if ${\tt classification} = {\tt NULL}$ this value will be auto-detected
map_scale	(int) refers to the relationship or ratio between distance on a map and the corresponding distance on the ground. For example, on a 1:1000000 scale map, 1cm on the map equals 1km on the ground. Possible values are: 1,3,10,20 or 60, and it's only for PROV or CCAA geographical granularity, map_scale = 60 by default and map_scale = NULL for high detailed map.
verbose	(boolean) show more information during the process
benchmark	(boolean) used to measure the performance of the system, benchmark = $FALSE$ by default.
det	(int) $det = 2$ to see two levels of depth, specifically to access the PubFechaAct object, $det = 0$ by default
type	(string) what type of plot should be drawn, type = " p " (for points) by default. See type in plot
lang	(string) language used to obtain information

Examples

```
represent_series("IPC251521", resource = "maps")
represent_series(resource = "maps", help = TRUE)
represent_series("IPC251521", resource = "maps", map_scale = NULL)
represent_series("IPC206449", resource = "plot", nlast = 5)
represent_series("IPC206449", resource = "highcharts", nlast = 5)
```

Description

This function allows to update cache data

Usage

```
update_cache(code = NULL, resource = "series", help = FALSE, n = 0,
  page = 1, pagination = TRUE, page_start = NA, page_end = NA,
  benchmark = FALSE, force = FALSE, ignore_series = NULL,
  tip = "M", det = 2, lang = "ES")
```

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Arguments

code (string) operation identificator (string) resource to access, by default resource = "all" to get serie metadata. resource Possible values are all or series help (boolean) type any value for resource param and type help = TRUE to see params available for this resource. (int) number of operation to update starting from first operation getted from n get_operations_all() function. page (int) page = 1 to obtain data of an specific page (to use this, pagination = FALSE). pagination (boolean) TRUE to obtain data page by page and FALSE by default. (int) page_start = 1 start page range to obtain data (to use this, pagination = page_start TRUE). (int) page_end = 2 end page range to obtain data (to use this, pagination = page_end TRUE). benchmark (boolean) used to measure the performance of the system, benchmark = FALSE by default. force (boolean) to force to update all cache data, force = FALSE by default. (list) list of operation identificators to ignore. More slow series to cache are: 16, ignore_series 49, 330 and 334 (string) tip = M to obtain the metadata (crossing variables-values) of the series. tip det (int) det = 2 to see two levels of depth, specifically to access the PubFechaAct object, det = 0 by default

(string) language used to obtain information

Examples

lang

```
update_cache(resource = "series")
update_cache(resource = "series", help = TRUE)
```

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