Package ‘NSO1212’

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Title  National Statistical Office of Mongolia's Open Data API Handler
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Description  National Statistical Office of Mongolia (NSO) is the national statistical service and an organization of Mongolian government. NSO provides open access and official data via its web site <http://www.1212.mn/> and API <http://opendata.1212.mn/en/doc>. The package NSO1212 has functions for accessing the API service. The functions are compatible with the API v2.0 and get data sets and its detailed informations from the API.

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Brief Information about All Tables

Description

Brief information about all available tables on the API opendata.1212.mn which is supported by National Statistical Office of Mongolia (NSO)

Usage

all_tables(try = FALSE)

Arguments

try logical: Should the body of the function be wrapped by the function try? See details.

Details

The NSO server returns "HTTP error 500" frequently. Due to the server error, error handling is supported. if try is TRUE, you have to write code with error handling as shown in the example.

Value

A data frame which has brief information of all available tables if the function is executed without error, but an object of class "try-error" containing the error message, if it fails. The data frame has following structure:

- **rownum** Row number
- **list_id** Sector number
- **tbl_id** Table identification number
- **tbl_nm** Table name in Mongolian
- **tbl_eng_nm** Table name in English
- **unit_id** Unit code
- **cd_nm** Unit name in Mongolian
- **cd_eng_nm** Unit name in English
- **strt_prd** Start date
- **end_prd** Finish date
- **prd_se** Time frequency
- **lst_chn_de** Last update date

References

get_sector_info

See Also

get_table, get_table_info, get_sector_info

Examples

all.tables <- all_tables(try = TRUE)
if (!inherits(all.tables, "try-error")) {
  print(all.tables$tbl_nm)
  print(all.tables$tbl_id)
}

get_sector_info

Detailed Information about All Sectors

Description

Detailed information about all 34 sectors, which are major classification of data, on the API open-
data.1212.mn which is supported by National Statistical Office of Mongolia (NSO)

Usage

get_sector_info(try = FALSE)

Arguments

try logical: Should the body of the function be wrapped by the function try? See details.

Details

The NSO server returns "HTTP error 500" frequently. Due to the server error, error handling is supported. if try is TRUE, you have to write code with error handling as shown in the example.

Value

A data frame which has sector information if the function is executed without error, but an object of class "try-error" containing the error message, if it fails. The data frame has following structure:

rownun Row number
list_id Sector identification number
up_list_id Sub sector identification number
list_nm Sector name in Mongolian
list_eng_nm Sector name in English
isExist Whether or exist sub-sectors
get_subsector_info

References

See Also
all_tables, get_table, get_table_info, get_subsector_info

Examples

sector_info <- get_sector_info(try = TRUE)
if (!inherits(sector_info, "try-error")) {
  print(sector_info)
}

get_subsector_info  

Detailed Information about a Sub-Sector

Description
Detailed information about a sub-sector, which is minor classification of data, on the API opendata.1212.mn which is supported by National Statistical Office of Mongolia (NSO)

Usage

get_subsector_info(subid, try = FALSE)

Arguments

subid  character string, Sub-sector identification number
try   logical: Should the body of the function be wrapped by the function try? See details.

Details
The NSO server returns "HTTP error 500" frequently. Due to the server error, error handling is supported. if try is TRUE, you have to write code with error handling as shown in the example.

Value
A data frame which has sub-sector information if the function is executed without error, but an object of class "try-error" containing the error message, if it fails. The data frame has following structure:

rownum  Row number
list_id  Sector identification number
up_list_id  Sub sector identification number
list_nm  Sector name in Mongolian
list_eng_nm  Sector name in English
isExist  Whether or exist sub-sectors
get_table

References


See Also

all_tables, get_table, get_table_info, get_sector_info

Examples

subsector_info <- get_subsector_info("976_L05", try = TRUE)
if (!inherits(subsector_info, "try-error")) {
  print(subsector_info)
}

get_table

Description

It downloads a table, which contains statistical data, from the API opendata.1212.mn which is supported by National Statistical Office of Mongolia (NSO).

Usage

get_table(
  tbl_id,
  PERIOD = NULL,
  CODE = NULL,
  CODE1 = NULL,
  CODE2 = NULL,
  try = FALSE
)

Arguments

tbl_id character string, Table identification number
PERIOD character vector, Time
CODE character vector, Classification code (age, gender etc)
CODE1 character vector, Classification code (age, gender etc)
CODE2 character vector, Classification code (age, gender etc)
try logical: Should the main body of the function be wrapped by the function try? See details.

Details

The NSO server returns "HTTP error 500" frequently. Due to the server error, error handling is supported. If try is TRUE, you have to write code with error handling as shown in the example.
Value

A data frame if the function is executed without error, but an object of class "try-error" containing the error message, if it fails. The data frame has following structure:

- **TBL_ID**  Row number
- **Period**  Time
- **CODE**  Classification code
- **SCR_MN**  Classification name in Mongolian
- **SCR_ENG**  Classification name in English
- **CODE1**  Classification code
- **SCR_MN1**  Classification name in Mongolian
- **SCR_ENG1**  Classification name in English
- **CODE2**  Classification code
- **SCR_MN2**  Classification name in Mongolian
- **SCR_ENG2**  Classification name in English
- **DTV AL_CO**  Data value

References


See Also

all_tables, get_table_info, get_sector_info

Examples

```r
nsd.data <- get_table(
  tbl_id = "DT_NSO_2400_015V2",
  PERIOD = c("201711", "201712", "201801"),
  CODE = c("10", "11"),
  CODE1 = "11",
  try = TRUE
)
if (!inherits(nsd.data, "try-error")) {
  print(nsd.data)
}
```
**get_table_info**

**Detailed Information about a Table and Its Classification**

**Description**

Detailed information about a table and its classification on the API opendata.1212.mn which is supported by **National Statistical Office of Mongolia (NSO)**

**Usage**

get_table_info(tbl_id, simplify = FALSE, try = FALSE)

**Arguments**

- **tbl_id**: character string, Table identification number
- **simplify**: logical: Should the result be simplified to a vector and a data frame?
- **try**: logical: Should the body of the function be wrapped by the function **try**? See details.

**Details**

The NSO server returns "HTTP error 500" frequently. Due to the server error, error handling is supported. if try is TRUE, you have to write code with error handling as shown in the example.

**Value**

A list which contains table information and classification if the function is executed without error, but an object of class "try-error" containing the error message, if it fails. The list has following structure:

- **tbl_id**: Table identification number
- **unit_id**: Unit identification number
- **unit_nm**: Unit name in Mongolia
- **unit_eng_nm**: Unit name in English
- **obj**: Table classification:
  - **obj_var_id**: Variable identification
  - **var_ord_sn**: Variable identification number
  - **field**: Field name
  - **scr_mn**: Variable name in Mongolian
  - **scr_eng**: Variable identification
  - **itm**: Variable classification and code:
    - **itm_id**: Classification number
    - **up_itm_id**: Sub-classification
    - **scr_mn**: Classification name in Mongolian
    - **scr_eng**: Classification name in English

if simplify is TRUE, an user-friendly result is returned.
References


See Also

all_tables, get_table, get_sector_info

Examples

# tree shaped result
table_info <- get_table_info("DT_NSO_2400_015V2", try = TRUE)
if (!inherits(table_info, "try-error")){
  table_info$unit_nm
  table_info$obj[[1]]$itm[[1]]$scr_mn
}
# tabular result
table_info_simplified <- get_table_info("DT_NSO_2400_015V2", simplify = TRUE, try = TRUE)
if (!inherits(table_info_simplified, "try-error")){
  table_info_simplified$tbl_id
  table_info_simplified$unit
  table_info_simplified$codes
  table_info_simplified$CODE
  table_info_simplified$CODE1
}

NSO1212

National Statistical Office of Mongolia’s Open Data API Handler

Description

National Statistical Office of Mongolia (NSO) is the national statistical service and an organization of Mongolian government. NSO provides open access and official data via its web site www.1212.mn and API opendata.1212.mn. The package NSO1212 has functions for accessing the API service. The functions are compatible with the API v2.0 and get data sets and its detailed informations from the API.

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