Package ‘cansim’
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Type Package
Title Accessing Statistics Canada Data Table and Vectors
Version 0.3.12
Maintainer Jens von Bergmann <jens@mountainmath.ca>
Description Searches for, accesses, and retrieves new-format and old-format Statistics Canada data tables, as well as individual vectors, as tidy data frames. This package deals with encoding issues, allows for bilingual English or French language data retrieval, and bundles convenience functions to make it easier to work with retrieved table data. Optional caching features are provided.
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Encoding UTF-8
ByteCompile yes
NeedsCompilation no
LazyData true
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Author Jens von Bergmann [cre],
    Dmitry Shkolnik [aut]
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add_provincial_abbreviations

Add provincial abbreviations as factor

Description

Add provincial abbreviations as factor
Usage

add_provincial_abbreviations(data)

Arguments

data A tibble as returned by get_cansim with provincial level data

Value

The input tibble with additional factor GEO.abb that contains language-specific provincial abbreviations

Examples

```r
## Not run:
df <- get_cansim("17-10-0005")
df <- add_provincial_abbreviations(df)
## End(Not run)
```

cansim_old_to_new

Translate deprecated CANSIM table number into new NDM-format table catalogue number

Description

Returns NDM table catalogue equivalent given a standard old-format CANSIM table number

Usage

cansim_old_to_new(oldCansimTableNumber)

Arguments

oldCansimTableNumber

deprecated style CANSIM table number (e.g. "427-0001")

Value

A character string with the new-format NDM table number

Examples

```r
## Not run:
cansim_old_to_new("026-0018")
## End(Not run)
```
categories_for_level  Use metadata to extract categories for column of specific level

Description

For tables with data with hierarchical categories, metadata containing hierarchy level descriptions is used to extract categories at a specified level of hierarchy only.

Usage

categories_for_level(
  data,
  column_name,
  level = NA,
  strict = FALSE,
  remove_duplicates = TRUE
)

Arguments

data data table object as returned from get_cansim()
column_name the quoted name of the column to extract categories from
level the hierarchy level depth to which to extract categories, where 0 is top category
strict (default FALSE) when TRUE will only extract that specific hierarchy level
remove_duplicates (default TRUE) When set to TRUE higher level grouping categories already captured by lower level hierarchy data will be removed

Value

A vector of categories

Examples

```r
## Not run:
data <- get_cansim("16-10-0117")
categories_for_level(data,"North American Industry Classification System (NAICS)",level=2)
## End(Not run)
```
**collect_and_normalize**  
*Collect data from connection and normalize cansim table output*

**Description**

Collect data from connection and normalize cansim table output

**Usage**

```r
collect_and_normalize(
  connection,
  replacement_value = "val_norm",
  normalize_percent = TRUE,
  default_month = "07",
  default_day = "01",
  factors = FALSE,
  strip_classification_code = FALSE,
  disconnect = FALSE
)
```

**Arguments**

- **connection**  
  A connection to a local StatCan table SQLite database as returned by `get_cansim_sqlite`, possibly with filters or other `dplyr` verbs applied

- **replacement_value**  
  (Optional) the name of the column the manipulated value should be returned in. Defaults to adding the ‘val_norm’ value field.

- **normalize_percent**  
  (Optional) When true (the default) normalizes percentages by changing them to rates

- **default_month**  
  The default month that should be used when creating Date objects for annual data (default set to "07")

- **default_day**  
  The default day of the month that should be used when creating Date objects for monthly data (default set to "01")

- **factors**  
  (Optional) Logical value indicating if dimensions should be converted to factors. (Default set to FALSE).

- **strip_classification_code**  
  (Optional) Logical value indicating if classification code should be stripped from names. (Default set to false).

- **disconnect**  
  (Optional) Logical value to indicate if the database connection should be disconnected. (Default is FALSE)

**Value**

A tibble with the collected and normalized data
### Examples

```r
## Not run:
library(dplyr)

con <- get_cansim_sqlite("34-10-0013")
data <- con %>%
    filter(GEO="Ontario") %>%
    collect_and_normalize()

disconnect_cansim_sqlite(con)

## End(Not run)
```

---

**correspondence**

The correspondence file for old to new StatCan table numbers is included in the package

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**Description**

The correspondence file for old to new StatCan table numbers is included in the package

**Author(s)**

Statistics Canada

**References**

https://www.statcan.gc.ca/eng/developers-developpeurs/cansim_id-product_id-concordance.csv

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**disconnect_cansim_sqlite**

Disconnect from a cansim database connection

---

**Description**

Disconnect from a cansim database connection

**Usage**

```r
disconnect_cansim_sqlite(connection)
```

**Arguments**

- `connection` connection to database
get_cansim

Value

‘NULL’

Examples

```r
## Not run:
con <- get_cansim_sqlite("34-10-0013")
disconnect_cansim_sqlite(con)

## End(Not run)
```

get_cansim

Retrieve a Statistics Canada data table using NDM catalogue number

Description

Retrieves a data table using an NDM catalogue number as a tidy data frame. Retrieved table data is cached for the duration of the current R session only by default.

Usage

```r
get_cansim(
  cansimTableNumber,
  language = "english",
  refresh = FALSE,
  timeout = 200,
  factors = TRUE,
  default_month = "07",
  default_day = "01"
)
```

Arguments

- **cansimTableNumber**: the NDM table number to load
- **language**: “en” or “english” for English and “fr” or “french” for French language versions (default to English)
- **refresh**: (Optional) When set to TRUE, forces a reload of data table (default is FALSE)
- **timeout**: (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.
- **factors**: (Optional) Logical value indicating if dimensions should be converted to factors. (Default set to TRUE).
- **default_month**: The default month that should be used when creating Date objects for annual data (default set to "07")
- **default_day**: The default day of the month that should be used when creating Date objects for monthly data (default set to "01") Set to higher values for large tables and slow network connection. (Default is 200).
Value

A tibble with StatCan Table data and added Date column with inferred date objects and added val_norm column with normalized value from the VALUE column.

Examples

```r
## Not run:
get_cansim("34-10-0013")
## End(Not run)
```

---

cansim_changed_tables

*Retrieve a list of modified tables since a given date*

Description

Retrieve a list of tables that have been modified or updated since the specified date.

Usage

```r
get_cansim_changed_tables(start_date, end_date = NULL)
```

Arguments

- **start_date**: Starting date in YYYY-MM-DD format to look for changes that changed on or after that date.
- **end_date**: Optional end date in YYYY-MM-DD format to look for changes that changed on or before that date, default is same as start date.

Value

A tibble with Statistics Canada data table product ids and their release times.

Examples

```r
## Not run:
get_cansim_changed_tables("2018-08-01")
## End(Not run)
```
get_cansim_code_set  Get NDM code sets

Description

Useful to get a list of surveys or subjects and used internally

Usage

get_cansim_code_set(
  code_set = c("scalar", "frequency", "symbol", "status", "uom", "survey", "subject", "wdsResponseStatus"),
  refresh = FALSE
)

Arguments

  code_set  the code set to retrieve.
  refresh  Default is FALSE, repeated calls during the same session will hit the cached data.
            To refresh the code list during a running R session set to TRUE

Value

  A tibble with english and french labels for the given code set

Examples

  ## Not run:
  get_cansim_code_set("survey")

  ## End(Not run)

get_cansim_column_categories

Retrieve Statistics Canada data table categories for a specific column

Description

Returns table column details given an NDM table number in English or French. Retrieved table information data is cached for the duration of the R session only.
get_cansim_column_list

Description

Returns table column details given an NDM table number in English or French. Retrieved table information data is cached for the duration of the R session only.

Usage

get_cansim_column_list(
  cansimTableNumber,
  column,
  language = "english",
  refresh = FALSE,
  timeout = 200
)

get_cansim_column_categories

Usage

get_cansim_column_categories(
  cansimTableNumber,
  column,
  language = "english",
  refresh = FALSE,
  timeout = 200
)

Arguments

cansimTableNumber
  the NDM table number to load

column
  the specified column for which to retrieve category information for

language
  "en" or "english" for English and "fr" or "french" for French language versions (default set to English)

refresh
  (Optional) When set to TRUE, forces a reload of data table (default is FALSE)

timeout
  (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.

Value

A tibble with detailed information on StatCan table categories for the specified field

Examples

## Not run:
get_cansim_column_categories("34-10-0013", "Geography")

## End(Not run)
**get_cansim_cube_metadata**

Retrieve table metadata from Statistics Canada API

**Description**

Retrieves table metadata given an input table number or vector of table numbers using either the new or old table number format. Patience is suggested as the Statistics Canada API can be very slow. The `list_cansim_tables()` function can be used as an alternative to retrieve a (cached) list of CANSIM tables with (more limited) metadata.

**Usage**

```r
get_cansim_cube_metadata(cansimTableNumber)
```

**Arguments**

- `cansimTableNumber`
  
  A new or old CANSIM/NDM table number or a vector of table numbers

**Value**

A tibble containing the table metadata
get_cansim_data_for_table_coord_periods

Retrieve data for specified Statistics Canada data product for last N periods for specific coordinates

Description

Allows for the retrieval of data for a Statistics Canada data table with specific coordinates for the N most-recently released periods. Caution: coordinates are concatenations of table member ID values and require familiarity with the TableMetadata data structure. Coordinates have a maximum of ten dimensions.

Usage

get_cansim_data_for_table_coord_periods(
  cansimTableNumber, coordinate, 
  periods = 1, refresh = FALSE, timeout = 200, 
  factors = TRUE, default_month = "07", default_day = "01"
)

Arguments

cansimTableNumber  Statistics Canada data table number
coordinate          A string of table coordinates in the form "1.1.1.36.1.0.0.0.0.0"
periods             Numeric value for number of latest periods to retrieve data for
refresh             (Optional) When set to TRUE, forces a reload of data table (default is FALSE)
timeout             (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.
factors             (Optional) Logical value indicating if dimensions should be converted to factors. (Default set to TRUE).
default_month       The default month that should be used when creating Date objects for annual data (default set to "07")
default_day         The default day of the month that should be used when creating Date objects for monthly data (default set to "01")
**get_cansim_key_release_schedule**

**Description**

Returns every release date of major economic indicators since March 14, 2012. This also includes scheduled future releases.

**Usage**

```r
get_cansim_key_release_schedule()
```

**Value**

a tibble with data, and details for major economic indicator release

**Examples**

```r
## Not run:
get_cansim_key_release_schedule()

## End(Not run)
```

---

**get_cansim_ndm**

---

**Description**

Retrieves a data table as a tidy dataframe using either an old-style CANSIM code or a new-format NDM table number. This function will automatically convert old-style CANSIM codes into their new equivalents. Retrieved table data is cached for the duration of the current R session only by default.
get_cansim_sqlite

Usage

get_cansim_ndm(
  cansimTableNumber,
  language = "english",
  refresh = FALSE,
  timeout = 200
)

Arguments

cansimTableNumber
  the table number to load, accepts old CANSIM or new NDM table numbers
language
  "en" or "english" for English and "fr" or "french" for French language versions (default is set to English)
refresh
  (Optional) When set to TRUE, forces a reload of data table (default is FALSE)
timeout
  (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.

Details

Deprecated, use ‘get_cansim’ instead. This will be removed in future releases.

Value

A tibble with the StatCan table data

Examples

## Not run:
# Retrieve a table with an NDM code
get_cansim("34-10-0013")
# Retrieve a table with an old-style CANSIM code
get_cansim("026-0018")

## End(Not run)

---

get_cansim_sqlite

Retrieve a Statistics Canada data table using NDM catalogue number as SQLite database connection

Description

Retrieves a data table using an NDM catalogue number as an SQLite table. Retrieved table data is cached permanently if a cache path is supplied or for duration of the current R session. The function will check against the lastest release data for the table and emit a warning message if the cached table is out of date.
get_cansim_sqlite

Usage

get_cansim_sqlite(
  cansimTableNumber,
  language = "english",
  refresh = FALSE,
  auto_refresh = FALSE,
  timeout = 1000,
  cache_path = getOption("cansim.cache_path")
)

Arguments

cansimTableNumber  the NDM table number to load
language  "en" or "english" for English and "fr" or "french" for French language versions (defaults to English)
refresh  (Optional) When set to TRUE, forces a reload of data table (default is FALSE)
auto_refresh  (Optional) When set to TRUE, it will reload data table if a new version is available (default is FALSE)
timeout  (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.
cache_path  (Optional) Path to where to cache the table permanently. By default, the data is cached in the path specified by ‘getOption("cansim.cache_path")’, if this is set. Otherwise it will use ‘tempdir()’.

Value

A database connection to a local SQLite database with the StatCan Table data.

Examples

## Not run:
con <- get_cansim_sqlite("34-10-0013")

# Work with the data connection
head(con)

disconnect_cansim_sqlite(con)

## End(Not run)
get_cansim_table_info  Retrieve Statistics Canada data table information

**Description**

Returns table information given an NDM table catalogue number in English or French. Retrieved table information data is cached for the duration of the R session only.

**Usage**

```r
get_cansim_table_info(
  cansimTableNumber,  
  language = "english",  
  refresh = FALSE,  
  timeout = 200  
)
```

**Arguments**

- `cansimTableNumber` the NDM table number to load
- `language` "en" or "english" for English and "fr" or "french" for French language versions (default set to English)
- `refresh` (Optional) When set to TRUE, forces a reload of data table (default is FALSE)
- `timeout` (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.

**Value**

A tibble with the table overview information

**Examples**

```r
## Not run:  
get_cansim_table_info("34-10-0013")

## End(Not run)
```
get_cansim_table_last_release_date

Get the latest release data for a StatCan table, if available

Description

This can be used to check when a table has last been updated.

Usage

get_cansim_table_last_release_date(cansimTableNumber)

Arguments

cansimTableNumber

the NDM table number

Value

A datetime object if a release data is available, NULL otherwise.

Examples

## Not run:
get_cansim_table_last_release_date("34-10-0013")

## End(Not run)

get_cansim_table_notes

Retrieve Statistics Canada data table notes and column categories

Description

Returns table notes given an NDM table number in English or French. Retrieved table information data is cached for the duration of the R session only.

Usage

get_cansim_table_notes(
  cansimTableNumber,
  language = "en",
  refresh = FALSE,
  timeout = 200
)

get_cansim_table_overview

Arguments

cansimTableNumber
  the NDM table number to load

language
  "en" or "english" for English and "fr" or "french" for French language versions (default set to English)

refresh
  (Optional) When set to TRUE, forces a reload of data table (default is FALSE)

timeout
  (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.

Value

A tibble with table notes.

Examples

## Not run:
get_cansim_table_notes("34-10-0013")

## End(Not run)

---

get_cansim_table_overview

Retrieve Statistics Canada data table overview text

Description

Prints table overview information as console output. In order to display table overview information, the selected CANSIM table must be loaded entirely to display overview information. Overview information is printed in console an in English or French, as specified.

Usage

get_cansim_table_overview(
  cansimTableNumber,
  language = "english",
  refresh = FALSE
)

Arguments

cansimTableNumber
  the NDM table number to load

language
  "en" or "english" for English and "fr" or "french" for French language versions (default set to English)

refresh
  (Optional) When set to TRUE, forces a reload of data table (default is FALSE)
get_cansim_table_short_notes

Value
none

Examples

```r
## Not run:
get_cansim_table_overview("34-10-0013")
## End(Not run)
```

get_cansim_table_short_notes

Retrieves Statistics Canada data table short notes

Description

Returns table notes given an NDM table number in English or French. Retrieved table information data is cached for the duration of the R session only.

Usage

```r
get_cansim_table_short_notes(
cansimTableNumber, 
language = "english", 
refresh = FALSE, 
timeout = 200 
)
```

Arguments

cansimTableNumber  the NDM table number to load
language            "en" or "english" for English and "fr" or "french" for French language versions (default set to English)
refresh             (Optional) When set to TRUE, forces a reload of data table (default is FALSE)
timeout             (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.

Value

A tibble with the StatCan Notes for the table

Examples

```r
## Not run:
get_cansim_table_short_notes("34-10-0013")
## End(Not run)
```
get_cansim_table_subject

Retrieve Statistics Canada data table subject detail

Description

Returns table subject detail given an NDM table number in English or French. Retrieved table information data is cached for the duration of the R session only.

Usage

get_cansim_table_subject(cansimTableNumber, language = "english", refresh = FALSE, timeout = 200)

Arguments

cansimTableNumber
the NDM table number to load

language
"en" or "english" for English and "fr" or "french" for French language versions (default set to English)

refresh
(Optional) When set to TRUE, forces a reload of data table (default is FALSE)

timeout
(Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.

Value

A tibble with the table subject code and name.

Examples

## Not run:
get_cansim_table_subject("34-10-0013")

## End(Not run)
**get_cansim_table_survey**

*Retrieve Statistics Canada data table survey detail*

**Description**

Returns table survey detail given an NDM table number in English or French. Retrieved table information data is cached for the duration of the R session only.

**Usage**

```r
get_cansim_table_survey(
  cansimTableNumber,
  language = "english",
  refresh = FALSE,
  timeout = 200
)
```

**Arguments**

- `cansimTableNumber`
  - the NDM table number to load
- `language`
  - "en" or "english" for English and "fr" or "french" for French language versions (default set to English)
- `refresh`
  - (Optional) When set to TRUE, forces a reload of data table (default is FALSE)
- `timeout`
  - (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.

**Value**

A tibble with the table survey code and name

**Examples**

```r
## Not run:
get_cansim_table_survey("34-10-0013")

## End(Not run)
```
get_cansim_table_url  Retrieve a Statistics Canada data table URL given a table number

Description

Retrieve URL of a table from the API given a table number. Offers a more stable approach than manually guessing the URL of the table.

Usage

get_cansim_table_url(cansimTableNumber, language = "en")

Arguments

cansimTableNumber
  the NDM table number to load
language
  "en" or "english" for English and "fr" or "french" for French language versions (defaults to English)

Value

String object containing URL for specified table number

Examples

## Not run:
get_cansim_table_url("34-10-0013")
get_cansim_table_url("34-10-0013", language = "fr")

## End(Not run)

get_cansim_vector  Retrieve data for a Statistics Canada data vector released within a given time frame

Description

Retrieve data for a Statistics Canada data vector released within a given time frame
get_cansim_vector

Usage

get_cansim_vector(
  vectors,
  start_time = as.Date("1800-01-01"),
  end_time = Sys.time(),
  use_ref_date = TRUE,
  refresh = FALSE,
  timeout = 200,
  factors = TRUE,
  default_month = "07",
  default_day = "01"
)

Arguments

vectors The list of vectors to retrieve
start_time Starting date in YYYY-MM-DD format, applies to REF_DATE or releaseTime, depending on use_ref_date parameter
end_time Set an optional end time filter in YYYY-MM-DD format (defaults to current system time)
use_ref_date Optional, TRUE by default. When set to TRUE, uses REF_DATE of vector data to filter, otherwise it uses StatisticsCanada's releaseDate value for filtering the specified vectors.
refresh (Optional) When set to TRUE, forces a reload of data table (default is FALSE)
timeout (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.
factors (Optional) Logical value indicating if dimensions should be converted to factors. (Default set to TRUE).
default_month The default month that should be used when creating Date objects for annual data (default set to "07")
default_day The default day of the month that should be used when creating Date objects for monthly data (default set to "01")

Value

A tibble with data for vectors released between start and end time

Examples

## Not run:
get_cansim_vector("v41690973","2015-01-01")

## End(Not run)
get_cansim_vector_for_latest_periods

Retrieve data for specified Statistics Canada data vector(s) for last N periods

Description

Allows for the retrieval of data for specified vector series for the N most-recently released periods.

Usage

get_cansim_vector_for_latest_periods(
  vectors,
  periods = 1,
  refresh = FALSE,
  timeout = 200,
  factors = TRUE,
  default_month = "07",
  default_day = "01"
)

Arguments

vectors The list of vectors to retrieve
periods Numeric value for number of latest periods to retrieve data for
refresh (Optional) When set to TRUE, forces a reload of data table (default is FALSE)
timeout (Optional) Timeout in seconds for downloading cansim table to work around scenarios where StatCan servers drop the network connection.
factors (Optional) Logical value indicating if dimensions should be converted to factors. (Default set to TRUE).
default_month The default month that should be used when creating Date objects for annual data (default set to "07")
default_day The default day of the month that should be used when creating Date objects for monthly data (default set to "01")

Value

A tibble with data for specified vector(s) for the last N periods

Examples

## Not run:
get_cansim_vector_for_latest_periods("v41690973",10)

## End(Not run)
get_cansim_vector_info

Retrieve metadata for specified Statistics Canada data vectors

Description

Allows for the retrieval of metadata for Statistics Canada data vectors

Usage

get_cansim_vector_info(vectors)

Arguments

vectors a vector of cansim vectors

Value

A tibble with metadata for selected vectors

Examples

## Not run:
get_cansim_vector_info("v41690973")

## End(Not run)

list_cansim_cubes

Get overview list for all Statistics Canada data cubes

Description

Generates an overview table containing metadata of available Statistics Canada data cubes.

Usage

list_cansim_cubes(lite = FALSE, refresh = FALSE)

Arguments

lite Get the version without cube dimensions and comments for faster retrieval, default is FALSE.

refresh Default is FALSE, repeated calls during the same session will hit the cached data. To refresh the code list during a running R session set to TRUE
list_cansim_sqlite_cached_tables

List cached cansim SQLite database

Description

List cached cansim SQLite database

Usage

list_cansim_sqlite_cached_tables(cache_path = getOption("cansim.cache_path"))

Arguments

- `cache_path`: Optional, default value is `getOption("cansim.cache_path")`.

Value

A tibble with the list of all tables that are currently cached at the given cache path.

Examples

```r
## Not run:
list_cansim_sqlite_cached_tables()
## End(Not run)
```
list_cansim_tables

Get overview list for all Statistics Canada data tables (deprecated)

Description

This method is deprecated, please use `list_cansim_cubes` instead. Generates an overview table containing metadata of available Statistics Canada data tables. A new and updated table will be generated if this table does not already exist in cached form or if the force refresh option is selected (set to `FALSE` by default). This can take some time as this process involves scraping through hundreds of Statistics Canada web pages to gather the required metadata. If option `cansim.cache_path` is set it will look for and store the overview table in that directory.

Usage

```r
list_cansim_tables(refresh = FALSE)
```

Arguments

- `refresh` Default is `FALSE`, and will regenerate the table if set to `TRUE`

Value

A tibble with available Statistics Canada data tables, listing title, Statistics Canada data table catalogue number, deprecated CANSIM table number, description, and geography

Examples

```r
## Not run:
list_cansim_tables()

## End(Not run)
```

normalize_cansim_values

Normalize retrieved data table values to appropriate scales

Description

Facilitates working with Statistics Canada data table values retrieved using the package by setting all units to counts/dollars instead of millions, etc. If "replacement_value" is not set, it will replace the `VALUE` field with normalized values and drop the `scale` column. Otherwise it will keep the scale columns and create a new column named `replacement_value` with the normalized value. It will attempt to parse the `REF_DATE` field and create an R date variable. This is currently experimental.
normalize_cansim_values

Usage

normalize_cansim_values(
  data,
  replacement_value = NA,
  normalize_percent = TRUE,
  default_month = "01",
  default_day = "01",
  factors = FALSE,
  strip_classification_code = FALSE,
  cansimTableNumber = NULL
)

Arguments

data A retrieved data table as returned from get_cansim() or get_cansim_ndm()
replacement_value (Optional) the name of the column the manipulated value should be returned in. Defaults to replacing the current value field
normalize_percent (Optional) When true (the default) normalizes percentages by changing them to rates
default_month The default month that should be used when creating Date objects for annual data (default set to "01")
default_day The default day of the month that should be used when creating Date objects for monthly data (default set to "01")
factors (Optional) Logical value indicating if dimensions should be converted to factors. (Default set to false).
strip_classification_code (strip_classification_code) Logical value indicating if classification code should be stripped from names. (Default set to false).
cansimTableNumber (Optional) Only needed when operating on results of SQLite connections.

Value

Returns the input tibble with adjusted values

Examples

## Not run:
cansim_table <- get_cansim("34-10-0013")
normalize_cansim_values(cansim_table)

## End(Not run)
remove_cansim_sqlite_cached_table  
Remove cached cansim SQLite database

Description
Remove cached cansim SQLite database

Usage
remove_cansim_sqlite_cached_table(
cansimTableNumber,
language = NULL,
cache_path = getOption("cansim.cache_path")
)

Arguments
- **cansimTableNumber**  Number of the table to be removed
- **language**  Language for which to remove the cached data. If unspecified (‘NULL’) tables for all languages will be removed
- **cache_path**  Optional, default value is `getOption("cansim.cache_path")`

Value
‘NULL’

Examples
```r
## Not run:
con <- get_cansim_sqlite("34-10-0013")
disconnect_cansim_sqlite(con)
remove_cansim_sqlite_cached_table("34-10-0013")
## End(Not run)
```

search_cansim_cubes  
Search through Statistics Canada data cubes

Description
Searches through Statistics Canada data cubes using a search term.
Usage

search_cansim_cubes(search_term, refresh = FALSE)

Arguments

search_term  User-supplied search term used to find Statistics Canada data cubes with matching titles, table numbers, subject and survey codes.
refresh  Default is FALSE. The underlying cube list is cached for the duration of the R sessions and will regenerate the cube list if set to TRUE

Value

A tibble with available Statistics Canada data cubes, listing title, Statistics Canada data cube catalogue number, deprecated CANSIM table number, survey and subject.

Examples

## Not run:
search_cansim_cubes("Labour force")
## End(Not run)

search_cansim_tables  Search through Statistics Canada data tables (deprecated)

Description

This method is deprecated, please use `search_cansim_cubes` instead. Searches through Statistics Canada data tables using a search term. A new table is generated if it already does not exist or if refresh option is set to TRUE. Search-terms are case insensitive, but will accept regular expressions for more advanced searching. The search function can search either through table titles or through table descriptions, depending on the whether or not search_description is set to TRUE or not. If refresh = TRUE, the table will be updated and regenerated using Statistics Canada’s latest data. This can take some time since this process involves scraping through several hundred web pages to gather the required metadata. If option cache_path is set it will look for and store the overview table in that directory.

Usage

search_cansim_tables(search_term, search_fields = "both", refresh = FALSE)
view_cansim_webpage

Arguments

- `search_term` User-supplied search term used to find Statistics Canada data tables with matching titles
- `search_fields` By default, this function will search through table titles and keywords. Setting this parameter to "title" will only search through the title, setting it to "keyword" will only search through keywords
- `refresh` Default is FALSE, and will regenerate the table if set to TRUE

Value

A tibble with available Statistics Canada data tables, listing title, Statistics Canada data table catalogue number, deprecated CANSIM table number, description and geography that match the search term.

Examples

```r
## Not run:
search_cansim_tables("Labour force")
## End(Not run)
```

view_cansim_webpage

View CANSIM table information in browser

Description

Opens CANSIM table on Statistics Canada's website using default browser. This may be useful for getting further info on CANSIM table and survey methods.

Usage

```r
view_cansim_webpage(cansimTableNumber = NULL)
```

Arguments

- `cansimTableNumber` CANSIM or NDM table number. If no number is provided, the vector search page on the Statistic Canada website will be opened.

Value

none
Examples

## Not run:
view_cansim_webpage("34-10-0013")

## End(Not run)
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