Package ‘cmhc’

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cmhc_cma_translation_data

A dataset with geographic identifiers for CMHC and Census at the CMA level

Description

A dataset with geographic identifiers for CMHC and Census at the CMA level

Format

A tibble with Census and CMHC geographic identifiers

Author(s)

derived from CMHC geographic data

Source

Custom data extract from CMHC
cmhc_csd_translation_data

A dataset with geographic identifiers for CMHC and Census at the CSD level

Description
A dataset with geographic identifiers for CMHC and Census at the CSD level

Format
A tibble with Census and CMHC geographic identifiers

Author(s)
derived from CMHC geographic data

Source
Custom data extract from CMHC

cmhc_ct_translation_data

A dataset with geographic identifiers for CMHC and Census at the CT level

Description
A dataset with geographic identifiers for CMHC and Census at the CT level

Format
A tibble with Census and CMHC geographic identifiers

Author(s)
derived from CMHC geographic data

Source
Custom data extract from CMHC
cmhc_quality_labels  A list of CMHC quality indicators

Description

Data obtained via this package will automatically translate internal CMHC quality labels using this translation vector, this named vector is useful when working with CMHC data obtained from other sources like sporadic excel sheets or data scraped from PDF reports.

Usage

cmhc_quality_labels

Format

A named vector to translate internal CMHC quality indicators to plain text.

get_cmhc  Access CMHC data via the HMIP.

Description

The data access needs to specify the survey, series, dimension (if any), and breakdown to specify the CMHC table to pull the data from. The ‘list_cmhc_tables()’ function can be used to list all the tables available via this package. Snapshot data needs to specify the year, or if it is monthly data the month. Time series data, i.e. when ‘breakdown=”Historical Time Series”’ is specified, does not need year or month parameters, but may have the frequency parameter set. Filters provide additional ways to filter the tables by sub-categories.

Usage

get_cmhc(
    survey,
    series,
    dimension,
    breakdown,
    geo_uid,
    year = NULL,
    month = NULL,
    frequency = NULL,
    filters = list()
)
get_cmhc_geography

Arguments

- **survey**: The CMHC survey, one of "Scss", "Rms", "Srms", and "Seniors", consult `list_cmhc_surveys()` for possible values. (Other surveys and more data series may be supported in future versions.)
- **series**: The CMHC data series of the survey, consult `list_cmhc_series()` for possible values.
- **dimension**: The dimension to show in the results, consult `list_cmhc_dimensions()` for possible values.
- **breakdown**: The geographic breakdown, one of "Survey Zones", "Census Subdivision", "Neighbourhoods", "Census Tracts", if querying data for a snapshot in time or "Historical Time Periods" if querying time series data. Not all geographic breakdowns are available for all series. returns data frame with CMHC data, tile and subtitle are set as attributes. Consult `list_cmhc_breakdowns()` for possible values.
- **geo_uid**: Census geographic identifier for which to query the data. Can be a census tract, census subdivision, or census metropolitan area.
- **year**: optional, only needed when querying data for a snapshot in time.
- **month**: optional, only needed when querying data for a snapshot in time.
- **frequency**: optional, only needed when querying time series data, one of "Monthly", "Quarterly" or "Annual".
- **filters**: optional list of filters, consult `list_cmhc_filters()` for possible values.

Value

A tibble with the data in long form.

Examples

```r
## Not run:
data <- get_cmhc("Rms","Vacancy Rate","Bedroom Type","Historical Time Periods","5915022")
## End(Not run)
```

Description

The data can be queried for Census Tracts, Survey Zones, Neighbourhoods, Census Subdivisions and Metropolitan Areas, but it's most useful for Survey Zones, Neighbourhoods which are particular to CMHC and not available from other sources. The geographic data corresponds to an extract from 2017, and won't necessarily match regions from other years. The Survey Zones and Neighbourhoods have been quite stable, but census geographies change over time and can be matched with geographic data obtained by using the 'cancensus' package.

The geographic data is quite large and a local cache directory needs to be provided. By default the "CMHC_CACHE_PATH" environment variable is used to determine the cache directory, it can be set via the 'set_cache_path' function. The geographic data will take up about 55Mb of disk space.
get_cmhc_geography(
    level = c("CT", "ZONE", "NBHD", "CSD", "MET"),
    base_directory = Sys.getenv("CMHC_CACHE_PATH")
)

Arguments

level aggregation level for geographic data, one of "CT","ZONE","NBHD","CSD","MET"
base_directory local directory to hold CMHC geography data, by default this is inferred from
              the CMHC_CACHE_PATH environment variable. To use this function a local
data directory has to be set.

Value

A spatial data frame with the geographies for the specified geographic level.

Examples

## Not run:
get_cmhc_geography("ZONE")
## End(Not run)

list_cmhc_breakdowns

List available CMHC breakdowns

Description

List available CMHC breakdowns

Usage

list_cmhc_breakdowns(survey = NULL, series = NULL, dimension = NULL)

Arguments

survey Optional survey to filter by
series Optional series to filter by
dimension Optional dimension to filter by

Value

A data frame with survey names, series names, dimension names and available series breakdowns.
list_cmhc_dimensions

Examples

list_cmhc_breakdowns("Rms","Vacancy Rate","Bedroom Type")

---

list_cmhc_dimensions  List available CMHC dimensions

Description

List available CMHC dimensions

Usage

list_cmhc_dimensions(survey = NULL, series = NULL)

Arguments

- survey: Optional survey to filter by
- series: Optional series to filter by

Value

A data frame with survey names, series names, and available dimension names.

Examples

list_cmhc_dimensions("Rms","Vacancy Rate")

---

list_cmhc_filters  List available CMHC filters

Description

List available CMHC filters

Usage

list_cmhc_filters(
  survey = NULL,
  series = NULL,
  dimension = NULL,
  breakdown = NULL
)

Arguments

<table>
<thead>
<tr>
<th>survey</th>
<th>Optional survey to filter by</th>
</tr>
</thead>
<tbody>
<tr>
<td>series</td>
<td>Optional series to filter by</td>
</tr>
<tr>
<td>dimension</td>
<td>Optional dimension to filter by</td>
</tr>
<tr>
<td>breakdown</td>
<td>Optional breakdown to filter by</td>
</tr>
</tbody>
</table>

Value

A data frame with available filters

Examples

```r
list_cmhc_filters("Rms","Vacancy Rate","Bedroom Type","Historical Time Periods")
```

---

**list_cmhc_series**  
*List available CMHC series*

Description

List available CMHC series

Usage

```r
list_cmhc_series(survey = NULL)
```

Arguments

| survey | Optional survey to filter by |

Value

A data frame with survey names, and available series names.

Examples

```r
list_cmhc_series("Rms")
```
list_cmhc_surveys

Description
List available CMHC surveys

Usage
list_cmhc_surveys()

Value
A data frame with available survey names.

Examples
list_cmhc_surveys()

list_cmhc_tables

Description
List available CMHC tables

Usage
list_cmhc_tables(short = TRUE)

Arguments
short Logical, determines how much detail is returned. Default is ‘TRUE’.

Value
A tibble listing all available CMHC data tables

Examples
list_cmhc_tables()
set_cache_path  
Set persistent cmhc cache location for geographic data

Description
The cmhc package provides access to custom cmhc geographies, these are large files and should be stored in a permanent location. This function sets the CMHC_CACHE_PATH environment variable and optionally installs it in the .Renviron file for future use. This is only needed when using the `get_cmhc_geography()` function.

Usage
```
set_cache_path(cache_path, overwrite = FALSE, install = FALSE)
```

Arguments
- **cache_path**: a local directory to use for saving cached data
- **overwrite**: Option to overwrite any existing cache path already stored locally.
- **install**: Option to install permanently for use across sessions.

Value
a character string with the CMHC cache path

Examples
```r
## Not run:
# This sets the cache path for the duration of the current session
set_cache_path("~/cmhc_cache")

# This will set the cache path permanently until overwritten again
set_cache_path("~/cmhc_cache", install = TRUE)

## End(Not run)
```

show_cache_path  
View saved cache directory path

Description
View saved cache path

Usage
```
show_cache_path()
```
show_cache_path

Value

- a character string with the CMHC cache path

Examples

- show_cache_path()
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