

Package ‘melodi’

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Title Download Insee French Institute of Statistics Open Data

Version 1.1.0

Description A wrapper for the French Institute of Statistics (Insee) API
Melodi <<https://catalogue-donnees.insee.fr>>. Download, search, filter data
and metadata from open data statistical public datasets,
in french or in english.

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URL <https://InseeFrLab.github.io/melodi/>,
<https://github.com/InseeFrLab/melodi>

BugReports <https://github.com/InseeFrLab/melodi/issues>

Depends R (>= 4.1.0)

Imports data.table, dplyr, glue, httr2, labelled, magrittr, purrr,
stats, tibble, tidyr, zip

Suggests knitr, rmarkdown, testthat (>= 3.0.0), vcr (>= 0.6.0)

VignetteBuilder knitr

Config/roxygen2/version 8.0.0

Config/testthat/edition 3

Encoding UTF-8

Language fr

NeedsCompilation no

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get_all_data	<i>Get all data from a dataset</i>
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Description

Get all data from a dataset

Usage

```
get_all_data(  
  ds_name,  
  download_directory = tempdir(),  
  stringsAsFactors = FALSE,  
  remove_file = TRUE  
)
```

Arguments

- | | |
|--------------------|---|
| ds_name | Dataset name - use get_ds_list to find a dataset identifier |
| download_directory | Download directory - default system tempdir |
| stringsAsFactors | if TRUE, strings variables in data.frame are converted to factors - Default FALSE |
| remove_file | Remove downloaded data file after loading data <ul style="list-style-type: none">• Default TRUE |

Value

data.frame with data

Examples

```
data <- get_all_data("DS_TICM_PRATIQUES")
```

get_catalog	<i>Get list of available datasets</i>
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Description

Get list of available datasets

Usage

```
get_catalog(lang = "fr")
```

Arguments

lang lang of metadata informations (default: fr)

Value

a data.frame containing list of available datasets

Examples

```
get_catalog()  
get_catalog(lang = "en")
```

get_data	<i>Get Melodi data by URL.</i>
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Description

URL parameter can be copied/pasted from explorer <https://catalogue-donnees.insee.fr>

Usage

```
get_data(url)
```

Arguments

url URL API data Melodi - Start by "https://api.insee.fr/melodi/data/..."

Value

data.frame with data

Examples

```
get_data(  
  "https://api.insee.fr/melodi/data/DS_POPULATIONS_REFERENCE?GEO=FRANCE-F"  
)
```

get_file	<i>Get file attached to a dataset : extract (XLSX), or full CSV file</i>
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Description

Get file attached to a dataset : extract (XLSX), or full CSV file

Usage

```
get_file(  
  ds_name,  
  file_name,  
  download_file_name,  
  download_directory = tempdir()  
)
```

Arguments

ds_name	Dataset name
file_name	File name
download_file_name	Filename on disk after download
download_directory	Download directory - default system tempdir

Value

downloaded file name on disk

Examples

```
get_file(  
  ds_name = "DS_EC_DECES",  
  file_name = "T1_DECES_JOUR_NAT_FR",  
  download_file_name = "T1_DECES_JOUR_NAT_FR.xlsx"  
)
```

get_local_data	<i>Get data on one territory</i>
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Description

Get data on one territory

Usage

```
get_local_data(ds_name, geo, geo_object, filter = "")
```

Arguments

ds_name	Dataset name
geo	Code geo
geo_object	Geo Level
filter	additionnal filter on request - default : ""

Value

data.frame with data

Examples

```
get_local_data(  
  ds_name = "DS_POPULATIONS_REFERENCE",  
  geo = "69",  
  geo_object = "DEP"  
)  
  
get_local_data(  
  ds_name = "DS_RP_POPULATION_PRINC",  
  geo = "69",  
  geo_object = "DEP",  
  filter = "SEX=F&AGE=Y20T64"  
)
```

get_local_data_by_com *Get data on every Commune of one territory*

Description

Get data on every Commune of one territory

Usage

```
get_local_data_by_com(ds_name, geo, geo_object, filter = "")
```

Arguments

ds_name	Dataset name
geo	Code geo
geo_object	Geo Level
filter	additionnal filter on request - default : ""

Value

data.frame with data

Examples

```
get_local_data_by_com(  
  ds_name = "DS_POPULATIONS_REFERENCE",  
  geo = "44",  
  geo_object = "DEP"  
) |>  
  head()  
  
get_local_data_by_com(  
  ds_name = "DS_RP_POPULATION_PRINC",  
  geo = "44",  
  geo_object = "DEP",  
  filter = "SEX=F&AGE=Y20T64"  
) |>  
  head()
```

get_metadata	<i>Get dataset metadata</i>
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Description

Get dataset metadata

Usage

```
get_metadata(ds_name)
```

Arguments

ds_name	Dataset name
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Value

list dataset metadata

Examples

```
get_metadata("DS_POPULATIONS_REFERENCE")
```

get_range	<i>Get dataset range (codes and labels)</i>
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Description

Retrieves the list of dimensions and all their possible modalities values (codes and human-readable labels) for a given dataset. For GEO dimension, it is recommended to use dedicated function : `get_range_geo()`

Usage

```
get_range(ds_name, lang = "fr", exclusions_list = c("GEO"))
```

Arguments

<code>ds_name</code>	dataset name
<code>lang</code>	french or english labels - default french ("fr")
<code>exclusions_list</code>	exclude some dimensions for a faster and light result - default : "GEO"

Value

A data frame with dimensions and modalities codes and labels

Examples

```
get_range("DS_POPULATIONS_REFERENCE")

get_range(
  ds_name = "DS_POPULATIONS_REFERENCE",
  lang = "en"
)

get_range(
  ds_name = "DS_EC_DECES",
  exclusions_list = c("GEO", "TIME_PERIOD")
)
```

get_range_geo	<i>Get dataset's geography : codes and labels</i>
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Description

Retrieves the list of geo dimensions and all their possible values (codes and human-readable labels) for a given dataset.

Usage

```
get_range_geo(ds_name, lang = "fr")
```

Arguments

ds_name	dataset name
lang	french or english labels - default french ("fr")

Details

For other dimensions, refer to `get_range()`

Value

A data frame with columns GEO_REF, GEO_OBJECT, GEO_OBJECT_LABEL, GEO, GEO_LABEL

Examples

```
get_range_geo("DS_POPULATIONS_REFERENCE") |>  
  head()
```

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