Package 'melodi'

November 8, 2026

Title Download Insee French Institute of Statistics Open Data

Version 1.2.1

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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Repository CRAN

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`get_all_data` *Get all data from a dataset*

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 • Default TRUE

Value

data.frame with data

Examples

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

get_catalog *Get list of available datasets*

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 *Get Melodi data by URL.*

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

Description

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

Usage

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

Arguments

ds_name	Dataset name
file_name	File name
download_file_name	Filename on disk after download - if not specified, preserve original file name from Melodi - default NULL (preserve original file name)
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 *Get data on one territory*

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 *Get dataset metadata*

Description

Get dataset metadata

Usage

```
get_metadata(ds_name)
```

Arguments

ds_name	Dataset name

Value

list dataset metadata

Examples

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

get_range *Get dataset range (codes and labels)*

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 recommanded to used dedicated function : get_range_geo()

Usage

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

Arguments

ds_name	dataset name
lang	french or english labels - default french ("fr")
exclusions_list	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 *Get dataset's geography : codes and labels*

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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