Package 'GetQuandlData'

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```
Type Package
Title Fast and Cached Import of Data from 'Quandl' Using the 'json
     API'
Version 1.0.0
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Description Imports time series data from the 'Quandl' database <a href="https:">https:</a>
     //data.nasdaq.com/>. The package uses the 'json api' at <https:
     //data.nasdaq.com/search>, local caching ('memoise' package) and the tidy format by default.
     Also allows queries of databases, allowing the user to see which time series are avail-
     able for each database id. In short, it is an alternative to package 'Quandl', with faster data impor-
     tation in the tidy/long format.
Imports jsonlite, memoise, dplyr, purrr, utils, readr, fs
Depends R (>= 4.0.0)
License GPL-2
BugReports https://github.com/msperlin/GetQuandlData/issues
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2 get_database_info

R topics documented:

get_cache_folder	. 2
get_database_info	. 2
get_Quandl_series	. 3
get_single_Quandl	. 4
json_to_tibble	. 5

Index 7

 get_cache_folder

Returns the default cache folder

Description

Returns the default cache folder

Usage

```
get_cache_folder()
```

Value

```
a path (temporary)
```

Examples

```
get_cache_folder()
```

get_database_info

Get inform about quandl database

Description

Uses metadata link to download information about available series and dates for a given database id.

Usage

```
get_database_info(db_in, api_key)
```

Arguments

```
db_in Database id (e.g. "RATEINF")
api_key YOUR api key
```

get_Quandl_series 3

Value

A dataframe

Examples

```
db_in <- 'RATEINF'
api_key <- 'YOUR_API_HERE'

## Not run:
df_db <- get_database_info(db_in, api_key)
## End(Not run)</pre>
```

get_Quandl_series

Import data from Quandl API

Description

Uses the json api from Quandl (https://www.quandl.com/tools/api) to import data into an R session. The great benefit from the original Quandl::Quandl is the use of package memoise to cache results, organization of the output dataframe in the tidy/long format and passing different multiple parameters to manipulate series.

Usage

```
get_Quandl_series(
   id_in,
   api_key = NULL,
   first_date = Sys.Date() - 365,
   last_date = Sys.Date(),
   do_cache = TRUE,
   order = "asc",
   collapse = "none",
   transform = "none",
   cache_folder = get_cache_folder()
)
```

Arguments

id_in	Character vector of ids to grab data. When using a named vector, the name is used to register the time series. Example: id_in <- c('US GDP' = 'FRED/GDP')
api_key	$YOUR\ api\ key\ (get\ your\ own\ at\ \ \ ''www.quandl.com/sign-up-modal? defaultModal=showSignUp>)$
first_date	First date of all requested series as YYYY-MM-DD (default = Sys.date() - 365)
last_date	Last date of all requested series as YYYY-MM-DD (default = Sys.date() - 365)

4 get_single_Quandl

do_cache	Do cache? TRUE (default) or FALSE. Sets the use of package memoise to cache results from the api
order	How to order the time series data: 'desc' (descending dates, default) or 'asc' (ascending)
collapse	Frequency of time series: 'none' (default), 'daily', 'weekly', 'monthly', 'quarterly', 'annual'
transform	Quandl transformation: 'none', 'diff', 'rdiff', 'rdiff_from', 'cumul', 'normalize'. Details at https://docs.quandl.com/docs/parameters-2
cache_folder	Folder where to save memoise cache files (temporary folder as default)

Details

ATTENTION: You'll need a api key in order to use this function. Get one at https://www.quandl.com/sign-up-modal?defaultModal=showSignUp.

Value

A dataframe in the long format

Examples

```
api_key <- 'YOUR_API_KEY_HERE'
id_in <- c('Inflation Canada' = 'RATEINF/INFLATION_CAN')
## Not run:
    df <- get_Quandl_series(id_in = id_in, api_key = api_key)
## End(Not run)</pre>
```

get_single_Quandl

Fetches a single time series from Quandl

Description

Fetches a single time series from Quandl

Usage

```
get_single_Quandl(
  id_in,
  name_in,
  api_key,
  first_date,
  last_date,
  do_cache = TRUE,
  order = "asc",
  collapse = "none",
  transform = "none")
```

json_to_tibble 5

Arguments

id_in	Character vector of ids to grab data. When using a named vector, the name is used to register the time series. Example: id_in <- c('US GDP' = 'FRED/GDP')
name_in	Name of series to fetch
api_key	YOUR api key (get your own at https://www.quandl.com/sign-up-modal?defaultModal=showSignUp)
first_date	First date of all requested series as YYYY-MM-DD (default = Sys.date() - 365)
last_date	Last date of all requested series as YYYY-MM-DD (default = Sys.date() - 365)
do_cache	Do cache? TRUE (default) or FALSE. Sets the use of package memoise to cache results from the api
order	How to order the time series data: 'desc' (descending dates, default) or 'asc' (ascending)
collapse	Frequency of time series: 'none' (default), 'daily', 'weekly', 'monthly', 'quarterly', 'annual'
transform	Quandl transformation: 'none', 'diff', 'rdiff_from', 'cumul', 'normalize'. Details at https://docs.quandl.com/docs/parameters-2

Value

A single dataframe

Examples

json_to_tibble

Transforms and organize json output to a tibble

Description

Transforms and organize json output to a tibble

Usage

```
json_to_tibble(l_in, id_in, name_in)
```

json_to_tibble

Arguments

Value

A beautiful dataframe

Examples

Index

```
get_cache_folder, 2
get_database_info, 2
get_Quandl_series, 3
get_single_Quandl, 4
json_to_tibble, 5
```