Package 'fdicdata'

April 12, 2023

Type Package
Title Accessing FDIC Bank Data
Version 0.1.0
Description A system provides a set of functions for working with data from the Federal Deposit Insurance Corporation (FDIC), including retrieving financial data for FDIC-insured institutions and accessing the data taxonomy. License MIT + file LICENSE
<pre>URL https://github.com/visbanking/fdicdata,</pre>
https://visbanking.com/opensource/
BugReports https://github.com/visbanking/fdicdata/issues
Imports dplyr, httr, yaml
Suggests testthat
Encoding UTF-8
RoxygenNote 7.2.3
NeedsCompilation no
Author Ugur Dar [aut, cre], Brian Pillmore [aut, cph]
Maintainer Ugur Dar <ugurdarr@gmail.com></ugurdarr@gmail.com>
Repository CRAN
Date/Publication 2023-04-12 12:20:06 UTC
R topics documented:
cert2idrssd

2 dataTaxonomy

	getInstitutionsAll
	getLocation
	getSummary
	getTaxonomy
	drssd2cert
	tates2URL
Index	11

cert2idrssd

Convert bank identifier from CERT to IDRSSD

Description

This function takes a bank's CERT number as input and returns the corresponding IDRSSD number.

Usage

cert2idrssd(CERT)

Arguments

CERT

An integer specifying the CERT number of the bank.

Value

An integer specifying the IDRSSD number of the bank. Returns NULL if there is an error.

Examples

cert2idrssd(3850)

dataTaxonomy

Taxonomy Data

Description

Extracts the taxonomy information for a given name

Usage

dataTaxonomy(name)

Arguments

name

the name of the taxonomy file to extract. Available taxonomy names: "institution", "location", "history", "summary", "failure", "financial".

getFailures 3

Value

a data frame containing the extracted taxonomy information

getFailures

Get information on bank failures from FDIC data

Description

This function retrieves information on bank failures from the FDIC data API, using the specified fields and (optional) date range. If a date range is specified, only failures within that range will be included.

Usage

```
getFailures(fields, range = NULL, limit = 10000)
```

Arguments

fields

a character vector specifying the fields to include in the output.

NAME The name of the failed bank

CERT The FDIC certificate number of the failed bank

FIN The failed bank's unique financial institution identifier

CITYST The city and state where the failed bank was located

FAILDATE The date of the bank failure

FAILYR The year of the bank failure

SAVR Whether the failed bank was a savings and loan association

RESTYPE The type of failed institution

RESTYPE1 A more specific classification of the failed institution

CHCLASS1 The bank's charter class

QBFDEP The amount of deposits held by the bank at the time of failure

QBFASSET The total assets held by the bank at the time of failure

COST The estimated cost to the FDIC of the bank's failure

PSTALP The FDIC's estimated percentage of insured deposits paid to deposi-

tors

range a numeric vector of length 2 specifying the start and end dates (in YYYY format)

for the date range to include. If not specified, all failures will be included.

limit an integer specifying the maximum number of results to return. Defaults to

10,000.

Value

a data frame containing the requested fields for each bank failure within the specified date range (if applicable).

4 getFinancials

Examples

```
df \leftarrow getFailures(c("CERT", "NAME", "FAILDATE", "CITY", "STATE"), range = c(2010, 2015)) head(df)
```

getFinancials

Get financial data for a given institution

Description

This function retrieves financial data for a given institution from the FDIC API.

Usage

```
getFinancials(IDRSSD_or_CERT, metrics, limit = 1, IDRSSD = TRUE, range = NULL)
```

Arguments

IDRSSD_or_CERT	Numeric value indicating the IDRSSD or CERT number of the institution to retrieve data for.
metrics	Vector of metric names to retrieve financial data for.
limit	Number of records to retrieve.
IDRSSD	Boolean value indicating whether IDRSSD (True) or CERT number (False) is used. $$
range	Character vector contains start and end date for range. Open ended ranges can be expressed using a "*"

Value

A dataframe containing the requested financial data.

Examples

```
getFinancials(37, metrics = c("ASSET", "DEP"), limit = 10, range = c("2015-01-01","*")) getFinancials(37, metrics = c("ASSET", "DEP"), limit = 10, range = c("2015-01-01","2016-01-01"))
```

getHistory 5

getHistory	Get history of a bank by FDIC certificate number or name
gethistory	Get history of a bank by FDIC certificate number or name

Description

This function retrieves the history of a bank by either its FDIC certificate number or name. The user can specify which fields to include in the output.

Usage

```
getHistory(CERT_or_NAME = NULL, fields, CERT = TRUE, limit = 10000)
```

Arguments

CERT_or_NAME	Either the FDIC certificate number or the name of the bank for which to retrieve history information.
fields	A character vector specifying the fields to include in the output.
CERT	A logical value indicating whether the value in CERT_or_NAME is a FDIC certificate number (default is TRUE).
limit	An integer indicating the maximum number of records to retrieve (default and max is 10000).

Value

A data frame containing the requested history information for the specified bank.

Examples

Description

This function retrieves institution data from the FDIC API based on the specified parameters.

Usage

```
getInstitution(
  name = NULL,
  IDRSSD_or_CERT = NULL,
  fields,
  IDRSSD = TRUE,
  limit = 10000
)
```

6 getInstitutionsAll

Arguments

name (optional) A character string to search for in the institution name.

IDRSSD_or_CERT IDRSSD or CERT of bank

fields A character vector of field names to retrieve from the API.

IDRSSD Default: TRUE functions uses IDRSSD, to using CERT change it FALSE

limit An integer specifying the maximum number of records to retrieve. Default is

10000.

Value

A data frame containing the institution data.

References

For more information on the FDIC API, visit https://banks.data.fdic.gov/.

Examples

```
df <- getInstitution(name = "Bank of America", fields = c("NAME", "CITY", "STATE"))</pre>
```

getInstitutionsAll Read FDIC Institution data set

Description

This function reads the FDIC Institution data set from a URL (FDIC listing of all institutions) and returns it as a data frame.

Usage

```
getInstitutionsAll()
```

Value

A data frame containing the FDIC Institution data set

Examples

```
#'\dontrun{dataInstitutions <- getInstitutionsAll()}</pre>
```

getLocation 7

getLocation	Get location information for a bank with a given CERT number
Bethoughton	Get to canton injormation for a bank with a given elect minute

Description

This function retrieves location information for a bank with a given CERT number from the Federal Deposit Insurance Corporation (FDIC) database.

Usage

```
getLocation(CERT, fields = c("NAME", "CITY", "STNAME"), limit = 10000)
```

Arguments

CERT A character string specifying the CERT number of the bank to retrieve location

information for.

fields A character vector specifying the fields to include in the output. Default is

c("NAME", "CITY", "STNAME").

limit An integer specifying the maximum number of locations to retrieve. Default is

10000.

ZIP The ZIP code for the location.

UNINUM A unique identifier for the location.

STNAME The name of the state where the location is located.

STCNTY The name of the county where the location is located.

STALP The two-letter abbreviation for the state where the location is located.

SERVTYPE_DESC A description of the type of service provided at the location

SERVTYPE A code indicating the type of service provided at the location.

RUNDATE The date the location information was last updated.

OFFNUM The number of the office associated with the location.

OFFNAME The name of the office associated with the location.

NAME The name of the financial institution associated with the location.

MAINOFF A flag indicating whether the location is the main office for the financial institution.

MDI_STATUS_DESC A description of the regulatory status of the financial institution associated with the location.

MDI_STATUS_CODE A code indicating the regulatory status of the financial institution associated with the location.

LONGITUDE The longitude of the location.

LATITUDE The latitude of the location.

FI_UNINUM A unique identifier for the financial institution associated with the location.

ESTYMD The date the financial institution associated with the location was established.

8 getSummary

CSA_NO The Core Based Statistical Area (CBSA) number for the location.

CSA_FLG A flag indicating whether the location is part of a CBSA.

CSA The name of the CBSA associated with the location.

COUNTY The name of the county associated with the location.

CITY The name of the city associated with the location.

CERT The certificate number of the financial institution associated with the location.

CBSA_NO The CBSA number for the location.

CBSA_MICRO_FLG A flag indicating whether the CBSA associated with the location is a micro area.

CBSA_METRO_NAME The name of the metropolitan area associated with the location.

CBSA_METRO_FLG A flag indicating whether the location is part of a metropolitan area.

CBSA_METRO The code for the metropolitan area associated with the location

CBSA_DIV_NO The CBSA division number for the location.

CBSA_DIV_FLG A flag indicating whether the location is part of a CBSA division.

CBSA DIV The name of the CBSA division associated with the location.

CBSA The code for the CBSA associated with the location.

BKCLASS The bank class associated with the location.

ADDRESS Address of the bank.

Value

A data frame containing location information for the bank.

Examples

```
# Get location information for a bank with CERT number 3850 getLocation(3850)
```

Get location information for a bank with CERT number 3850 and fields "NAME", "CITY", and "ZIP" getLocation(3850, fields = c("NAME", "CITY", "ZIP"))

getSummary

Get Summary Data from FDIC API

Description

This function retrieves summary data from the FDIC API based on given state names, a range of years, and specified fields. The returned data frame includes columns for state name, year, CB_SI, and the specified fields.

getTaxonomy 9

Usage

```
getSummary(states, range, fields, limit = 10000)
```

Arguments

states	a character vector of state names to filter by
range	a numeric vector of length two representing the beginning and ending years to filter by. If NULL, no year filtering will occur.
fields	a character vector of field names to include in the output data frame
limit	an integer specifying the maximum number of rows to retrieve from the API

Value

a data frame with summary data for the given states, years, and fields

Examples

```
df <- getSummary(c("West Virginia", "Delaware", "Alabama"), c(2015, 2016), c("ASSET", "INTINC"))</pre>
```

Description

This function takes the name of the YAML file containing data taxonomy as an input and downloads it from the FDIC website, saving it to the local directory for later use.

Usage

```
getTaxonomy(taxonomy)
```

Arguments

taxonomy The name of the taxonomy file to download (one of "institution_properties.yaml",

"location_properties.yaml", "history_properties.yaml", "summary_properties.yaml",

"failure_properties.yaml", or "risview_properties.yaml")

10 states2URL

idrssd2cert

Convert bank identifier from IDRSSD to CERT

Description

This function takes a bank's IDRSSD number as input and returns the corresponding CERT number.

Usage

```
idrssd2cert(IDRSSD)
```

Arguments

IDRSSD

An integer specifying the IDRSSD number of the bank.

Value

An integer specifying the CERT number of the bank. Returns NULL if there is an error.

Examples

```
idrssd2cert(37)
```

states2URL

Converts a vector of state names to a URL compatible format

Description

This function takes a vector of state names and converts it to a format that is compatible with URLs. The resulting string can be used as a filter for APIs or other web requests.

Usage

```
states2URL(vec)
```

Arguments

vec

A vector of state names to be converted to URL-compatible format

Value

A string containing the state names in URL-compatible format

Index

```
cert2idrssd, 2
dataTaxonomy, 2
getFailures, 3
getFinancials, 4
getHistory, 5
getInstitution, 5
getInstitutionsAll, 6
getLocation, 7
getSummary, 8
getTaxonomy, 9
idrssd2cert, 10
states2URL, 10
```