Package 'NasdaqDataLink'

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metaData

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Retrieve metadata from a Nasdaq Data Link series or search results

Description

Retrieve metadata from a Nasdaq Data Link series or search results

Usage

```
metaData(x)
```

Arguments

Х

A Nasdaq Data Link time series object or search results with attached meta data.

Value

Returns a list of meta data about the series or search results.

See Also

NasdaqDataLink.api_key, NasdaqDataLink.search

```
## Not run:
metaData(ts)
## End(Not run)
```

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NasdaqDataLink	Retrieves Data from the Nasdaq Data Link Dataset endpoint and formats

Description

Retrieves Data from the Nasdaq Data Link Dataset endpoint and formats

Usage

```
NasdaqDataLink(
  code,
  type = c("raw", "ts", "zoo", "xts", "timeSeries"),
  transform = c("", "diff", "rdiff", "normalize", "cumul", "rdiff_from"),
  collapse = c("", "daily", "weekly", "monthly", "quarterly", "annual"),
  order = c("desc", "asc"),
  meta = FALSE,
  force_irregular = FALSE,
  ...
)
```

Arguments

code	Dataset code on Nasdaq Data Link specified as a string or an array of strings.
type	Type of data returned specified as string. Can be 'raw', 'ts', 'zoo', 'xts' or 'timeSeries'.
transform	Apply Nasdaq Data Link API data transformations.
collapse	Collapse frequency of Data.
order	Select if data is given to R in ascending or descending formats. Helpful for the rows parameter.
meta force_irregular	Adds meta data as an attribute to the returned Data.
	When set to TRUE, forces the index of the Data to be of date format yyyy-mm-dd
	Additional named values that are interpreted as Nasdaq Data Link API parameters. Please see $\frac{\text{https://docs.data.nasdaq.com/docs/in-depth-usage\#}}{\text{get-time-series-metadata}} for a full list of parameters.}$

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile.

Value

Depending on the type the class is either data.frame, time series, xts, zoo or timeSeries.

References

This R package uses the Nasdaq Data Link API. For more information go to https://docs.data.nasdaq.com. For more help on the package itself go to https://data.nasdaq.com/tools/r.

See Also

```
NasdaqDataLink.api_key
```

Examples

```
## Not run:
data_link_data = NasdaqDataLink("NSE/OIL", collapse="monthly", start_date="2013-01-01", type="ts")
plot(data_link_data[,1])
## End(Not run)
```

NasdaqDataLink.api_key

Query or set Nasdaq Data Link API key

Description

Query or set Nasdaq Data Link API key

Usage

```
NasdaqDataLink.api_key(api_key)
```

Arguments

api_key

Optionally passed parameter to set Nasdaq Data Link api_key.

Value

Returns invisibly the currently set api_key.

```
## Not run:
NasdaqDataLink.api_key('foobar')
## End(Not run)
```

NasdaqDataLink.auth 5

NasdaqDataLink.auth

Query or set Nasdaq Data Link API token

Description

Deprecated. Alias of NasdaqDataLink.api_key

Usage

```
NasdaqDataLink.auth(auth_token)
```

Arguments

auth_token

Optionally passed parameter to set Nasdaq Data Link auth_token.

Value

Returns invisibly the currently set auth_token.

See Also

```
NasdaqDataLink.api_key
```

Examples

```
## Not run:
NasdaqDataLink.auth('foobar')
## End(Not run)
```

NasdaqDataLink.base_url

Query or set Base URL for White-labeled sites

Description

Query or set Base URL for White-labeled sites

Usage

```
NasdaqDataLink.base_url(base_url)
```

Arguments

base_url

Optionally passed parameter to set Nasdaq Data Link base_url.

Value

Returns invisibly the currently set base_url.

Examples

```
## Not run:
NasdaqDataLink.base_url('http://localhost')
## End(Not run)
```

NasdaqDataLink.database.bulk_download_to_file

Downloads a zip with all data from a Nasdaq Data Link database

Description

Downloads a zip with all data from a Nasdaq Data Link database

Usage

```
NasdaqDataLink.database.bulk_download_to_file(database_code, filename, ...)
```

Arguments

filename (including path) of file to download.

... Additional named values that are interpreted as NasdaqDataLink API parame-

ters. Please see https://docs.data.nasdaq.com/docs/parameters-2 for a

full list of parameters.

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

Value

The filename of the downloaded file.

See Also

```
NasdaqDataLink.api_key
```

```
## Not run:
NasdaqDataLink.database.bulk_download_to_file("NSE", "./NSE.zip")
## End(Not run)
```

 ${\it NasdaqDataLink.database.bulk_download_url} \\ {\it Returns\ the\ bulk\ download\ url}$

Description

Returns the bulk download url

Usage

```
NasdaqDataLink.database.bulk_download_url(database_code, ...)
```

Arguments

```
database_code Database code on Nasdaq Data Link specified as a string.

... Additional named values that are interpreted as Nasdaq Data Link API parameters. Please see <a href="https://docs.data.nasdaq.com/docs/parameters-2">https://docs.data.nasdaq.com/docs/parameters-2</a> for a full list of parameters.
```

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

Value

Returns the download url.

See Also

```
NasdaqDataLink.api_key
```

```
## Not run:
url = NasdaqDataLink.database.download_url("NSE", download_type="partial")
## End(Not run)
```

NasdaqDataLink.dataset.get

Retrieves Data from the Nasdaq Data Link Dataset endpoint

Description

Retrieves Data from the Nasdaq Data Link Dataset endpoint

Usage

```
NasdaqDataLink.dataset.get(code, params)
```

Arguments

code Dataset code on Nasdaq Data Link specified as a string.

params A list of parameters to be passed to the Nasdaq Data Link API. Please see

https://docs.data.nasdaq.com/docs/in-depth-usage#get-time-series-metadata

for a full list of parameters.

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

Value

Returns a data.frame of the requested data

See Also

```
NasdaqDataLink.api_key, NasdaqDataLink
```

```
## Not run:
data_link_data = NasdaqDataLink.dataset.get("NSE/OIL", list(rows=5))
plot(data_link_data[,1])
## End(Not run)
```

NasdaqDataLink.datatable

Retrieves Data from the Nasdaq Data Link Datatable endpoint

Description

Retrieves Data from the Nasdaq Data Link Datatable endpoint

Usage

```
NasdaqDataLink.datatable(datatable_code, paginate = FALSE, ...)
```

Arguments

datatable_code Datatable code on Nasdaq Data Link specified as a string.

paginate When set to TRUE, fetches up to 1,000,000 rows of data

Additional named values that are interpreted as Nasdag Data Link ABI as

Additional named values that are interpreted as Nasdaq Data Link API parame-

ters.

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

Value

Returns a data.frame.

See Also

```
NasdaqDataLink.api_key
```

```
## Not run:
NasdaqDataLink.datatable('ZACKS/FC', paginate=TRUE)
## End(Not run)
```

NasdaqDataLink.datatable.bulk_download_to_file

Downloads a zip with all data requested from a Nasdaq Data Link database

Description

Downloads a zip with all data requested from a Nasdaq Data Link database

Usage

```
NasdaqDataLink.datatable.bulk_download_to_file(datatable_code, filename, ...)
```

Arguments

datatable_code Datatable code on Nasdaq Data Link specified as a string.

filename Filename (including path) of file to download.

... Additional named values that are interpreted as Nasdaq Data Link API parame-

ters.

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

Value

Returns a data.frame.

See Also

```
NasdaqDataLink.api_key
```

```
## Not run:
NasdaqDataLink.datatable.bulk_download_to_file('ZACKS/EE')
## End(Not run)
```

NasdaqDataLink.datatable.bulk_download_url

*Generates and returns a bulk download url

Description

Generates and returns a bulk download url

Usage

```
NasdaqDataLink.datatable.bulk_download_url(datatable_code, ...)
```

Arguments

... Additional named values that are interpreted as Nasdaq Data Link API parameters. Please see https://docs.data.nasdaq.com/docs/parameters-1 for a full list of parameters.

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

Value

Returns the download url.

See Also

```
NasdaqDataLink.api_key
```

```
## Not run:
url = NasdaqDataLink.datatable.bulk_download_url("ZACKS/EE", ticker="AAPL")
## End(Not run)
```

NasdaqDataLink.pit.asofdate

Retrieves Point In Time Data from the Nasdaq Data Link PIT endpoint. As of date is used to see the table as it was at a specific point in time in the past.

Description

Retrieves Point In Time Data from the Nasdaq Data Link PIT endpoint. As of date is used to see the table as it was at a specific point in time in the past.

Usage

```
NasdaqDataLink.pit.asofdate(datatable_code, start_date, paginate = FALSE, ...)
```

Arguments

start_date Lower date as a string.

paginate When set to TRUE, fetches up to 1,000,000 rows of data

... Additional named values that are interpreted as Nasdaq Data Link API parame-

ters.

Details

Set your api_key with Nasdaq Data Link.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

Value

Returns a data.frame.

See Also

```
NasdaqDataLink.api_key
```

```
## Not run:
NasdaqDataLink.pit.asofdate('RSM/MSB', '2020-06-11', paginate=TRUE)
## End(Not run)
```

NasdaqDataLink.pit.between

Retrieves Point In Time Data from the Nasdaq Data Link PIT endpoint. Between start and end will show all rows that were visible at any point between two specified points in time. It works inclusively, a row visible exactly at start or exactly at end will be shown too.

Description

Retrieves Point In Time Data from the Nasdaq Data Link PIT endpoint. Between start and end will show all rows that were visible at any point between two specified points in time. It works inclusively, a row visible exactly at start or exactly at end will be shown too.

Usage

```
NasdaqDataLink.pit.between(
  datatable_code,
  start_date,
  end_date,
  paginate = FALSE,
   ...
)
```

Arguments

start_date Lower date as a string.
end_date Upper date as a string.

paginate When set to TRUE, fetches up to 1,000,000 rows of data

... Additional named values that are interpreted as Nasdaq Data Link API parame-

ters.

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

Value

Returns a data.frame.

See Also

```
NasdaqDataLink.api_key
```

Examples

```
## Not run:
NasdaqDataLink.pit.between('RSM/MSB', '2020-06-11', '2020-06-12', paginate=TRUE)
## End(Not run)
```

NasdaqDataLink.pit.fromto

Retrieves Point In Time Data from the Nasdaq Data Link PIT endpoint. From start to end will also show all rows that were visible at any point between two specified points in time, including start, but excluding end.

Description

Retrieves Point In Time Data from the Nasdaq Data Link PIT endpoint. From start to end will also show all rows that were visible at any point between two specified points in time, including start, but excluding end.

Usage

```
NasdaqDataLink.pit.fromto(
  datatable_code,
  start_date,
  end_date,
  paginate = FALSE,
  ...
)
```

Arguments

datatable_code Datatable code on Nasdaq Data Link specified as a string.

start_date Lower date as a string. end_date Upper date as a string.

paginate When set to TRUE, fetches up to 1,000,000 rows of data

... Additional named values that are interpreted as Nasdaq Data Link API parame-

ters.

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

Value

Returns a data.frame.

NasdaqDataLink.search

See Also

```
NasdaqDataLink.api_key
```

Examples

```
## Not run:
NasdaqDataLink.pit.fromto('RSM/MSB', '2020-06-11', '2020-06-12', paginate=TRUE)
## End(Not run)
```

NasdaqDataLink.search Search the Nasdaq Data Link database

Description

Search the Nasdaq Data Link database

Usage

```
NasdaqDataLink.search(query, silent = FALSE, per_page = 10, ...)
```

Arguments

query Search terms

silent Prints the results when FALSE.

per_page Number of results returned per page.

... Additional named values that are interpretted as Nasdaq Data Link API param-

eters.

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

For instructions on finding your authentication token go to https://data.nasdaq.com/account/profile

Value

Search results returned as a data.frame.

See Also

```
NasdaqDataLink.api_key
```

```
## Not run:
search.results <- NasdaqDataLink.search("oil")
## End(Not run)</pre>
```

nasdaq_data_link.api

Description

Executes Nasdaq Data Link API calls

Usage

```
nasdaq_data_link.api(
  path,
  http = c("GET", "PUT", "POST", "DELETE"),
  postdata = NULL,
   ...
)
```

Arguments

path Path to api resource. http Type of http request sent.

postdata A character or raw vector that is sent in a body.

... Named values that are interpretted as Nasdaq Data Link API parameters. Please

see https://docs.data.nasdaq.com/.

Details

Set your api_key with NasdaqDataLink.api_key function. For instructions on finding your api key go to https://data.nasdaq.com/account/profile

Value

Nasdaq Data Link API response.

See Also

```
NasdaqDataLink.api_key
```

```
## Not run:
data_link_data = nasdaq_data_link.api(path="datasets/NSE/OIL", http="GET")
plot(data_link_data[,1])
## End(Not run)
```

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