Package 'insiderTrades'

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Title Tools to Download Insider Transactions and Holdings Version 0.0.1 Description Download insider trading transactions and insider holdings from a public NoSQL SEC database (<https://www.sec.gov/Archives/edgar/full-index/>) using keyword criteria and generate a relational dataframe. License CC0 URL https://github.com/US-Department-of-the-Treasury/insiderTrades BugReports https://github.com/US-Department-of-the-Treasury/insiderTrades/issues **Encoding** UTF-8 RoxygenNote 7.1.1 **Imports** stringr (>= 1.4.0), magrittr (>= 2.0.1), RCurl (>= 1.98-1.3) Suggests knitr, rmarkdown, devtools VignetteBuilder knitr NeedsCompilation no Author Joseph Hancuch [aut, cre] Maintainer Joseph Hancuch < joseph.hancuch@treasury.gov> **Repository** CRAN Date/Publication 2021-10-04 20:20:05 UTC

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derivativeHoldingsPullAndScrape

derivativeTransactionsPullAndScrape

Description

The function takes the specifieid quarter (1-4), year (2004-2021), and form type (4 or 5) and returns a dataframe of all the derivative holdings that meet the keyword crtiera from the specified financial quarter. If no criteria is set, all holdings from the financial quarter are scraped. Note that the logic for the keywords is "OR." Thus if a user sets multiple footnoteKeywords and a keyword for issuerKeywords, if a holding has only one of the footnoteKeywords and none of the issuerKeywords, the holding will still be scraped.

Usage

```
derivativeHoldingsPullAndScrape(
  quarter,
  year,
  form,
  name,
  email,
  footnoteKeywords = NA,
  issuerKeywords = NA,
  issuerTradingSymbol = NA,
  rptOwnerKeywords = NA
```

Arguments

quarter	Specify the financial reporting quarter. Options are 1, 2, 3, and 4.					
year	Specify the calendar year. Options range from 2004 to present.					
form	Specify the form type. Options are 4 or 5.					
name	Specify your name. This is required by the SEC.					
email	Specify your email. This is required by the SEC.					
footnoteKeywords						
	The character vector containing any specified key words to be searched in the form's footnotes. Default is NA.					
issuerKeywords	The character vector containing any specified key words to be searched within the issuer block. Criteria can include the firms CIK or name. Values must be captilized to match against SEC values. Default value is NA.					

Index

issuerTradingSymbol

The character vector containing any specified stock tickers. Values must be captilized to match against SEC values. Default value is NA.

rptOwnerKeywords

The character vector contianing any specified key words to be searched within the rptOwner block. Values must be captilized to match against SEC values. Additionally, the format is LAST NAME, FIRST NAME. The criteria can include the individuals CIK, address, or name. Default value is NA.

Value

A dataframe containing containing the scraped information where each row represents a derivative holding The holding observations can be grouped by form through the URL variable within the dataframe.

Examples

```
dat <- derivativeHoldingsPullAndScrape(quarter = 3, year = 2012, form = 4,
name = "Your Name", email = "yourEmail@yourEmail.com",
footnoteKeywords = c("gift", "charity"))
```

derivativeHoldingsScrape

derivativeHoldingsScrape

Description

The function takes the dataframe returned by secUrlDownload and scrapes and compiles a dataframe of all the derivative holdings that meet the keyword crtiera. If no criteria is set, all holdings from the dataframe returned by secUrlDownload are scraped. Note that the logic for the keywords is "OR." Thus if a user sets multiple footnoteKeywords and a keyword for issuerKeywords, if a holding has only one of the footnoteKeywords and none of the issuerKeywords, the holding will still be scraped.

Usage

```
derivativeHoldingsScrape(
    index,
    form,
    name,
    email,
    footnoteKeywords = NA,
    issuerKeywords = NA,
    issuerTradingSymbol = NA,
    rptOwnerKeywords = NA
```

Arguments

index	A local object that was returned by utilizing the secUrlDownload. It contains the URLs necessary to grab each text version of the filed Form 4 or 5.					
form	Define if the form is a Form 4 or Form 5. Must match the type used in secUrlDownload.					
name	Specify your name. This is required by the SEC.					
email	Specify your email. This is required by the SEC.					
footnoteKeyword	ls					
	The character vector containing any specified key words to be searched in the form's footnotes. Default is NA.					
issuerKeywords	The character vector containing any specified key words to be searched within the issuer block. Criteria can include the firms CIK or name. Values must be captilized to match against SEC values. Default value is NA.					
issuerTradingSymbol						
	The character vector containing any specified stock tickers. Values must be captilized to match against SEC values. Default value is NA.					
rptOwnerKeywords						
	The character vector contianing any specified key words to be searched within the rptOwner block. Values must be captilized to match against SEC values. Ad- ditionally, the format is LAST NAME, FIRST NAME. The criteria can include the individuals CIK, address, or name. Default value is NA.					

Value

A dataframe containing containing the scraped information where each row represents a derivative holding The holding observations can be grouped by form through the URL variable within the dataframe.

Examples

```
dat <- derivativeHoldingsScrape(index = tempIndex, form = 4,
name = "Your Name", email = "yourEmail@yourEmail.com",
issuerKeywords = c("AMAZON", "MICROSOFT"))
```

derivativeTransactionsPullAndScrape derivativeTransactionsPullAndScrape

Description

The function takes the specifieid quarter (1-4), year (2004- 2021), and form type (4 or 5) and returns a dataframe of all the derivative transactions that meet the keyword crtiera from the specified financial quarter. If no criteria is set, all transactions from the financial quarter are scraped. Note that the logic for the keywords is "OR." Thus if a user sets multiple footnoteKeywords and a keyword for issuerKeywords, if a transaction has only one of the footnoteKeywords and none of the issuerKeywords, the transaction will still be scraped.

Usage

```
derivativeTransactionsPullAndScrape(
  quarter,
  year,
  form,
  name,
  email,
  transactionType = NA,
  footnoteKeywords = NA,
  issuerKeywords = NA,
  issuerTradingSymbol = NA,
  rptOwnerKeywords = NA
```

Arguments

quarter	Specify the financial reporting quarter. Options are 1, 2, 3, and 4.				
year	Specify the calendar year. Options range from 2004 to present.				
form	Specify the form type. Options are 4 or 5.				
name	Specify your name. This is required by the SEC.				
email	Specify your email. This is required by the SEC.				
transactionType					
	The character vector containing any specified transaction codes. Values must be captilized to match against SEC values. Detailed information about the transaction type can be found here: https://www.sec.gov/files/forms-3-4-5.pdf. Default value is NA.				
footnoteKeyword	S				
	The character vector containing any specified key words to be searched in the form's footnotes. Default is NA.				
issuerKeywords	The character vector containing any specified key words to be searched within the issuer block. Criteria can include the firms CIK or name. Values must be captilized to match against SEC values. Default value is NA.				
issuerTradingSy	mbol				
	The character vector containing any specified stock tickers. Values must be captilized to match against SEC values. Default value is NA.				
rptOwnerKeywords					
	The character vector contianing any specified key words to be searched within the rptOwner block. Values must be captilized to match against SEC values. Additionally, the format is LAST NAME, FIRST NAME. The criteria can include the individuals CIK, address, or name. Default value is NA.				

Value

A dataframe containing containing the scraped information where each row represents a derivative transaction. The transaction observations can be grouped by form through the URL variable within the dataframe.

Examples

```
dat <- derivativeTransactionsPullAndScrape(quarter = 3, year = 2012,
form = 4, name = "Your Name", email = "yourEmail@yourEmail.com",
issuerKeywords = c("AMAZON", "MICROSOFT"))
```

derivativeTransactionsScrape

derivative Transactions Scrape

Description

The function takes the dataframe returned by secUrlDownload and scrapes and compiles a dataframe of all the derivative transactions that meet the keyword crtiera. If no criteria is set, all transactions from the dataframe returned by secUrlDownload are scraped.Note that the logic for the keywords is "OR." Thus if a user sets multiple footnoteKeywords and a keyword for issuerKeywords, if a transaction has only one of the footnoteKeywords and none of the issuerKeywords, the transaction will still be scraped.

Usage

```
derivativeTransactionsScrape(
    index,
    form,
    name,
    email,
    transactionType = NA,
    footnoteKeywords = NA,
    issuerKeywords = NA,
    issuerTradingSymbol = NA,
    rptOwnerKeywords = NA
```

Arguments

index	A local object that was returned by utilizing the secUrlDownload. It contains the URLs necessary to grab each text version of the filed Form 4 or 5.
form	Define if the form is a Form 4 or Form 5. Must match the type used in secUrlDownload.
name	Specify your name. This is required by the SEC.
email	Specify your email. This is required by the SEC.
transactionType	
	The character vector containing any specified transaction codes. Values must be captilized to match against SEC values. Detailed information about the transaction type can be found here: https://www.sec.gov/files/forms-3-4-5.pdf. Default value is NA.

formFilters

footnoteKeyword	ls					
	The character vector containing any specified key words to be searched in the form's footnotes. Default is NA.					
issuerKeywords	The character vector containing any specified key words to be searched within the issuer block. Criteria can include the firms CIK or name. Values must be captilized to match against SEC values. Default value is NA.					
issuerTradingSymbol						
	The character vector containing any specified stock tickers. Values must be captilized to match against SEC values. Default value is NA.					
rptOwnerKeywords						
	The character vector contianing any specified key words to be searched within the rptOwner block. Values must be captilized to match against SEC values. Ad- ditionally, the format is LAST NAME, FIRST NAME. The criteria can include the individuals CIK, address, or name. Default value is NA.					

Value

A dataframe containing containing the scraped information where each row represents a derivative transaction. The transaction observations can be grouped by form through the URL variable within the dataframe.

Examples

```
dat <- derivativeTransactionsScrape(index = tempIndex, form = 4,
name = "Your Name", email = "yourEmail@yourEmail.com",
issuerKeywords = c("AMAZON", "MICROSOFT"))
```

formFilters formFilters

Description

formFilters

Usage

```
formFilterNonderivativeTransactions(
   filing,
   footnoteKeywords,
   issuerKeywords,
   issuerTradingSymbol,
   rptOwnerKeywords,
   transactionType
)
```

formFilters

```
formFilterDerivativeTransactions(
  filing,
  footnoteKeywords,
  issuerKeywords,
  issuerTradingSymbol,
  rptOwnerKeywords,
  transactionType
)
formFilterNonderivativeHoldings(
  filing,
  footnoteKeywords,
  issuerKeywords,
  issuerTradingSymbol,
  rptOwnerKeywords
)
formFilterDerivativeHoldings(
  filing,
  footnoteKeywords,
  issuerKeywords,
  issuerTradingSymbol,
  rptOwnerKeywords
```

)

Arguments

filing	The object containing the Form 4 text
footnoteKeyword	ls
	The character vector containing any specified key words to be searched in the form's footnotes. Default is NA.
issuerKeywords	The character vector containing any specified key words to be searched within the issuer block. Default is NA.
issuerTradingSy	/mbol
	The character vector containing any specified stock tickers. Default is NA.
rptOwnerKeyword	ls
	The character vector contianing any specified key words to be searched within the rptOwner block. Default is NA.
transactionType	
	The character vector containing any specified transaction codes. Default is NA.

Value

An integer value that if greater than 0, reflects that at the one of the criteria parameters listed above has been met. The form will then be parsed further. Otherwise, if the integer value is 0, the function pulls in the next Form 4 to evaluate.

Note

formFilterNonderivativeTransactions parses the form and returns an integer value greater than 0 if one of the key word criteras is met. This function is specifically for the nonderivativeTransactionsScrape and nonderivativeTransactionsPullAndScrape functions.

formFilterDerivativeTransactions parses the form and returns an integer value greater than 0 if one of the key word criteras is met. This function is specifically for the derivativeTransactionsScrape and derivativeTransactionsPullAndScrape functions. The function shares the same paramters as formFilterNonderivativeTransactions (filing, footnoteKeywords, issuerKeywords, issuer-TradingSymbol, rptOwnerKeywords, transactionType). The only difference is within the parsing commands which use the key word derivative rather than nonderivative.

formFilterNonderivativeHoldings parses the form and returns an integer value greater than 0 if one of the key word criteras is met. This function is specifically for the nonderivativeHoldingsScrape and nonderivativeHoldingsPullAndScrape functions. The function shares the same paramters as formFilterNonderivativeTransactions (filing, footnoteKeywords, issuerKeywords, issuer-TradingSymbol, rptOwnerKeywords) except for transactionType since that isn't a criteria for a nonderivative holdings. Additionally, parsing criteria is different due to targeting holding information rather than transaction information.

formFilterDerivativeHoldings parses the form and returns an integer value greater than 0 if one of the key word criteras is met. This function is specifically for the derivativeHoldingsScrape and derivativeHoldingsPullAndScrape functions. The function shares the same paramters as formFilterNonderivativeHoldings (filing, footnoteKeywords, issuerKeywords, issuerTradingSymbol, rptOwnerKeywords) except for transactionType since that isn't a criteria for a derivative holdings. The only difference is within the parsing commands which use the key word derivative rather than nonderivative.

nonderivativeHoldingsPullAndScrape nonderivativeHoldingsPullAndScrape

Description

The function takes the specifieid quarter (1-4), year (2004- 2021), and form type (4 or 5) and returns a dataframe of all the nonderivative holdings that meet the keyword crtiera from the specified financial quarter. If no criteria is set, all holdings from the financial quarter are scraped. Note that the logic for the keywords is "OR." Thus if a user sets multiple footnoteKeywords and a keyword for issuerKeywords, if a holding has only one of the footnoteKeywords and none of the issuerKeywords, the holding will still be scraped.

Usage

```
nonderivativeHoldingsPullAndScrape(
  quarter,
  year,
  form,
  name,
```

```
email,
footnoteKeywords = NA,
issuerKeywords = NA,
issuerTradingSymbol = NA,
rptOwnerKeywords = NA
```

Arguments

quarter	Specify the financial reporting quarter. Options are 1, 2, 3, and 4.					
year	Specify the calendar year. Options range from 2004 to present.					
form	Specify the form type. Options are 4 or 5.					
name	Specify your name. This is required by the SEC.					
email	Specify your email. This is required by the SEC.					
footnoteKeyword	footnoteKevwords					
	The character vector containing any specified key words to be searched in the form's footnotes. Default is NA.					
issuerKeywords	The character vector containing any specified key words to be searched within the issuer block. Criteria can include the firms CIK or name. Values must be captilized to match against SEC values. Default value is NA.					
issuerTradingSy	mbol					
	The character vector containing any specified stock tickers. Values must be captilized to match against SEC values. Default value is NA.					
rptOwnerKeywords						
	The character vector contianing any specified key words to be searched within the rptOwner block. Values must be captilized to match against SEC values. Ad- ditionally, the format is LAST NAME, FIRST NAME. The criteria can include the individuals CIK, address, or name. Default value is NA.					

Value

A dataframe containing containing the scraped information where each row represents a nonderivative holding. The holding observations can be grouped by form through the URL variable within the dataframe.

Examples

```
dat <- nonderivativeHoldingsPullAndScrape(quarter = 1, year = 2018,
form = 4, name = "Your Name", email = "yourEmail@yourEmail.com",
issuerKeywords = c("AMAZON", "MICROSOFT"))
```

nonderivativeHoldingsScrape

nonderivativeHoldingsScrape

Description

The function takes the dataframe returned by secUrlDownload and scrapes and compiles a dataframe of all the nonderivative holdings that meet the keyword crtiera. If no criteria is set, all holdings from the dataframe returned by secUrlDownload are scraped. Note that the logic for the keywords is "OR." Thus if a user sets multiple footnoteKeywords and a keyword for issuerKeywords, if a holding has only one of the footnoteKeywords and none of the issuerKeywords, the holding will still be scraped.

Usage

```
nonderivativeHoldingsScrape(
    index,
    form,
    name,
    email,
    footnoteKeywords = NA,
    issuerKeywords = NA,
    issuerTradingSymbol = NA,
    rptOwnerKeywords = NA
```

Arguments

index	A local object that was returned by utilizing the secUrlDownload. It contains the URLs necessary to grab each text version of the filed Form 4 or 5.					
form	Define if the form is a Form 4 or Form 5. Must match the type used in secUrlDownload					
name	Specify your name. This is required by the SEC.					
email	Specify your email. This is required by the SEC.					
footnoteKeyword	ls					
	The character vector containing any specified key words to be searched in the form's footnotes. Default is NA.					
issuerKeywords	The character vector containing any specified key words to be searched within the issuer block. Criteria can include the firms CIK or name. Values must be captilized to match against SEC values. Default value is NA.					
issuerTradingSy	ndol					
	The character vector containing any specified stock tickers. Values must be captilized to match against SEC values. Default value is NA.					
rptOwnerKeywords						
	The character vector contianing any specified key words to be searched within the rptOwner block. Values must be captilized to match against SEC values. Ad- ditionally, the format is LAST NAME, FIRST NAME. The criteria can include the individuals CIK, address, or name. Default value is NA.					

Value

A dataframe containing containing the scraped information where each row represents a nonderivative holding. The holding observations can be grouped by form through the URL variable within the dataframe.

Examples

```
dat <- nonderivativeHoldingsScrape(index = tempIndex, form = 4,
name = "Your Name", email = "yourEmail@yourEmail.com",
rptOwnerKeywords = c("SMITH JOHN"))
```

nonderivativeTransactionsPullAndScrape nonderivativeTransactionsPullAndScrape

Description

The function takes the specifieid quarter (1-4), year (2004- 2021), and form type (4 or 5) and returns a dataframe of all the nonderivative transactions that meet the keyword crtiera from the specified financial quarter. If no criteria is set, all transactions from the financial quarter are scraped. Note that the logic for the keywords is "OR." Thus if a user sets multiple footnoteKeywords and a keyword for issuerKeywords, if a transaction has only one of the footnoteKeywords and none of the issuerKeywords, the transaction will still be scraped.

Usage

```
nonderivativeTransactionsPullAndScrape(
  quarter,
  year,
  form,
  name,
  email,
  transactionType = NA,
  footnoteKeywords = NA,
  issuerKeywords = NA,
  issuerTradingSymbol = NA,
  rptOwnerKeywords = NA
```

```
)
```

Arguments

quarter	Specify the financial reporting quarter. Options are 1, 2, 3, and 4.
year	Specify the calendar year. Options range from 2004 to present.
form	Specify the form type. Options are 4 or 5.

name	Specify your name. This is required by the SEC.					
email	Specify your email. This is required by the SEC.					
transactionType						
	The character vector containing any specified transaction codes. Values must be captilized to match against SEC values. Detailed information about the transaction type can be found here: https://www.sec.gov/files/forms-3-4-5.pdf. Default value is NA.					
footnoteKeyword	S					
	The character vector containing any specified key words to be searched in the form's footnotes. Default is NA.					
issuerKeywords	The character vector containing any specified key words to be searched within the issuer block. Criteria can include the firms CIK or name. Values must be captilized to match against SEC values. Default value is NA.					
issuerTradingSy	mbol					
	The character vector containing any specified stock tickers. Values must be captilized to match against SEC values. Default value is NA.					
rptOwnerKeyword	rptOwnerKeywords					
	The character vector contianing any specified key words to be searched within the rptOwner block. Values must be captilized to match against SEC values. Ad- ditionally, the format is LAST NAME, FIRST NAME. The criteria can include the individuals CIK, address, or name. Default value is NA.					

Value

A dataframe containing containing the scraped information where each row represents a nonderivative transaction. The transaction observations can be grouped by form through the URL variable within the dataframe.

Examples

```
dat <- nonderivativeHoldingsPullAndScrape(quarter = 1, year = 2018,
form = 4, name = "Your Name", email = "yourEmail@yourEmail.com",
rptOwnerKeywords = c("10165", "10166"))
```

nonderivativeTransactionsScrape

nonderivativeTransactionsScrape

Description

The function takes the dataframe returned by secUrlDownload and scrapes and compiles a dataframe of all the nonderivative transactions that meet the keyword crtiera. If no criteria is set, all transactions from the dataframe returned by secUrlDownload are scraped. Note that the logic for the keywords is "OR." Thus if a user sets multiple footnoteKeywords and a keyword for issuerKeywords, if a transaction has only one of the footnoteKeywords and none of the issuerKeywords, the transaction will still be scraped.

Usage

```
nonderivativeTransactionsScrape(
    index,
    form,
    name,
    email,
    transactionType = NA,
    footnoteKeywords = NA,
    issuerKeywords = NA,
    issuerTradingSymbol = NA,
    rptOwnerKeywords = NA
```

Arguments

index	A local object that was returned by utilizing the secUrlDownload. It contains the URLs necessary to grab each text version of the filed Form 4 or 5.
form	Define if the form is a Form 4 or Form 5. Must match the type used in secUrlDownload.
name	Specify your name. This is required by the SEC.
email	Specify your email. This is required by the SEC.
transactionType	
	The character vector containing any specified transaction codes. Values must be captilized to match against SEC values. Detailed information about the transaction type can be found here: https://www.sec.gov/files/forms-3-4-5.pdf. Default value is NA.
footnoteKeyword	ds
	The character vector containing any specified key words to be searched in the form's footnotes. Default is NA.
issuerKeywords	The character vector containing any specified key words to be searched within the issuer block. Criteria can include the firms CIK or name. Values must be captilized to match against SEC values. Default value is NA.
issuerTradingSy	/mbol
	The character vector containing any specified stock tickers. Values must be captilized to match against SEC values. Default value is NA.
rptOwnerKeyword	ls
	The character vector contianing any specified key words to be searched within the rptOwner block. Values must be captilized to match against SEC values. Ad- ditionally, the format is LAST NAME, FIRST NAME. The criteria can include the individuals CIK, address, or name. Default value is NA.

Value

A dataframe containing containing the scraped information where each row represents a nonderivative transaction. The transaction observations can be grouped by form through the URL variable within the dataframe.

secUrlDownload

Examples

```
dat <- nonderivativeTransactionsScrape(index = tempIndex, form = 4,
name = "Your Name", email = "yourEmail@yourEmail.com",
rptOwnerKeywords = c("SMITH JOHN"))
```

secUrlDownload secUrlDownload

Description

The function takes the specifieid quarter (1-4), year (2004-2021), and form type (4 or 5) and returns a dataframe of URLs to each form filed during the specified quarter.

Usage

secUrlDownload(quarter, year, form, name, email)

Arguments

quarter	Specify the financial reporting quarter. Options are 1, 2, 3, and 4
year	Specify the calendar year. Options range from 2004 to present.
form	Specify the form type. Options are 4 or 5.
name	Specify your name. This is required by the SEC.
email	Specify your email. This is required by the SEC.

Value

A dataframe consisting of the URLs to the Form 4 or 5 text filings for the specified quarter and year.

Examples

```
tempIndex <- secUrlDownload(quarter = 1, year = 2018, form = 4,
form = 4, name = "Your Name", email = "yourEmail@yourEmail.com")
```

transactionFilters transactionFilters

Description

transactionFilters

Usage

```
transactionFilterNonderivative(
  filing,
  footnoteKeywords,
  issuerKeywords,
  issuerTradingSymbol,
  rptOwnerKeywords,
  transactionType
)
transactionFilterDerivative(
  filing,
  footnoteKeywords,
  issuerKeywords,
  issuerTradingSymbol,
  rptOwnerKeywords,
  transactionType
)
transactionFilterNonderivativeHoldings(
  filing,
  footnoteKeywords,
  issuerKeywords,
  issuerTradingSymbol,
  rptOwnerKeywords
)
transactionFilterDerivativeHoldings(
  filing,
  footnoteKeywords,
  issuerKeywords,
  issuerTradingSymbol,
  rptOwnerKeywords
```

```
)
```

Arguments

filing

The object containing a single transaction from a Form 4 filing in text format

transactionFilters

	footnoteKeyword	S
		The character vector containing any specified key words to be searched in the transaction's footnotes. Default is NA.
	issuerKeywords	The character vector containing any specified key words to be searched within the issuer block. Default is NA.
issuerTradingSymbol		
		The character vector containing any specified stock tickers. Default is NA.
rptOwnerKeywords		
		The character vector contianing any specified key words to be searched within the rptOwner block. Default is NA.
	transactionType	
		The character vector containing any specified transaction codes. Default is NA.

Value

An integer value that if greater than 0, reflects that at the one of the criteria parameters listed above has been met. The form will then be parsed further. Otherwise, if the integer value is 0, the function pulls in the next Form 4 to evaluate.

Note

transactionFilterNonderivative parses a transaction contained in the filing and returns an integer value greater than 0 if one of the transaction specific key word criteras or form specific key word criteras is met. This function is specifically for the nonderivativeTransactionsScrape and nonderivativeTransactionsPullAndScrape functions.

transactionFilterDerivative parses a transaction contained in the filing and returns an integer value greater than 0 if the transaction contains one of the specific key word criteras or if the key word criteria cannot be applied at the transaction level (rptOwnerKeywords or issuerKeywords for example), but the form contains form specific key word critera. This function is specifically for the derivativeTransactionsScrape and derivativeTransactionsPullAndScrape functions. The function shares the same paramters as formFilterNonderivativeTransactions(filing, footnoteKeywords, issuerKeywords, issuerTradingSymbol, rptOwnerKeywords, transactionType). The only difference is within the parsing commands which use the key word derivative rather than non-derivative.

transactionFilterNonderivativeHoldings parses a transaction contained in the filing and returns an integer value greater than 0 if the transaction contains one of the specific key word criteras or if the key word criteria cannot be applied at the transaction level (rptOwnerKeywords or issuerKeywords for example), but the form contains form specific key word critera. This function is specifically for the nonderivativeHoldingsScrape and nonderivativeHoldingsPullAndScrape functions. The function shares the same paramters as transactionFilterNonderivative (filing, footnoteKeywords, issuerKeywords, issuerTradingSymbol, rptOwnerKeywords) except for transactionType since that isn't a criteria for a nonderivative holdings. Additionally, parsing criteria is different due to targeting holding information rather than transaction information.

transactionFilterDerivativeHoldings parses a transaction contained in the filing and returns an integer value greater than 0 if the transaction contains one of the specific key word criteras or if the key word criteria cannot be applied at the transaction level (rptOwnerKeywords or issuerKeywords for example), but the form contains form specific key word critera. This function is specifically for the derivativeHoldingsScrape and derivativeHoldingsPullAndScrape functions. The function shares the same paramters as transactionFilterNonderivative (filing, footnoteKeywords, issuerKeywords, issuerTradingSymbol, rptOwnerKeywords) except for transaction-Type since that isn't a criteria for a derivative holdings. The only difference is within the parsing commands which use the key word derivative rather than nonderivative.

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