Graphical user interface, website

Description automatically generated

PROJECT FINDL



# GETTING STARTED TUTORIALS

GETTING STARTED TUTORIAL

VERSION 1 FOR NOVICES

Graphical user interface, application

Description automatically generated with medium confidence

Figure .Page view of first time landing page on findl.com

# INTENDED AUDIENCE

This walkthrough is designed for complete novices, there is no pre-requisite knowledge or applications experience required for this guide.

# REGISTRATION FOR NEW USERS

The registration/sign up process can be done with the following steps:

**Step 1: First time sign in**

Type <https://www.findl.com/> in your web browser and your landing page should appear like Figure 1 above.

Click the “Sign in” link on the top menu.

**Step 2: Sign up**

Fill in the required fields to activate the free version trial.

Graphical user interface

Description automatically generated

Figure .Sign in view once email verification process complete

**Step 3: Email verification**

Save your login details in safe place, and login for the first time on redirect page (Figure 2).

**Step 4: Automatic sign in once verified.**

The next time logging in, you will notice the page redirect is no longer displayed. The proof of successful login will be the “Hi, findl” text that appears on top menu.

# ABOUT THIS PRODUCT

This is probably the first time you have heard of APIs or even what is an API call? Not to worry, this quick explanation of what this product does may help you to taste early success by running your first API Call! (See Chapter: Your First API call using findl)

**API***is the acronym for Application Programming Interface, which is a software intermediary that allows two applications to talk to each other. In finance, REST API (specifically as RESTful API) is****an application programming interface (API or web API) that conforms to the constraints of REST architectural style and allows for interaction with RESTful web services****. REST stands for representational state transfer and was created by computer scientist Roy Fielding.*

Findl is essentially a version of this service provided for users requesting financial database information on demand. Let’s taste some early success by diving into your first API call!

# YOUR FIRST API CALL USING QUERY EDITOR

Follow along with this quick setup, and you will perform your first successful API Call:

**Step 1: Locate drop down menu**

Find on home page (see Figure 2), the three horizontal stripes button on the right position of screen. The drop-down menu should look like this.

Graphical user interface, application

Description automatically generated with medium confidence

Figure .drop down menu option

**Step 2: Go to Query Editor Setup**

Select “Query Data” from the drop-down menu as shown in Figure 3.

**Step 3: Input relevant fields in Query Editor**

Follow along by matching Figure 4 inputs as you would on your PC.

Graphical user interface, text, application

Description automatically generated

Figure .first api call using query editor

If this screen is too intimidating for now (Please see Chapter: API documentation explanations), but if you noticed the fields toggling with the respective tables then the taxonomies of information may seem logical.

*\*Briefly, the changed inputs from default setting was Table:”Fundamentals”; leaving the Limit and Skip functions to zero; Fields:”ticker” ”dimension” ”calendardate” ”date” ”reportperiod” ”assets” “currentratio” “payables” “pe”; leaving the Sort function to zero; From:”2021/05/01”; To:’2022/05/04”; Filter:”ticker=AAPL,dimension=MRT”,Format:”CSV”.*

**Step 4: Send response to web API**

Select the “Save data” button on the bottom right of screen (Figure 4)

Your first API call is practically done! The query was in laymen terms asking the web API to return Apple’s fundamentals datasets for the last calendar year.

**Step 5: Save results to CSV**

The next result should be an automatic download to your PC in CSV format

**Step 6: Viewing results in JSON**

Bonus step here, you can copy the result that was display as URL in Figure 5 below to your browser to view the JSON formatted results (Figure 6).

Graphical user interface, text, application

Description automatically generated

Figure .successful result using query editor

Now that your first API call is done, what is the next step? If Steps 1-6 did not yield the above results (Figure 5 and Figure 6) then continue to the next section (see Chapter: API documentation explanations).

Hopefully with this early taste of success, you will learn that the query editor gets you started with making several calls, and by some way of practice, you will edit the URL according to the syntax that is explained in the next section (see Chapter: API documentation explanations).

*\*JSON is a text-based way of representing JavaScript object literals, arrays, and scalar data. It is often used for****serializing structured data and exchanging it over a network, typically between a server and web applications****.*

*\*Syntax refers to the characters used in programming language, errors occur when in some instances the input is not recognized by the appropriate programming interface.*

Text

Description automatically generated

Figure .JSON RESULT on first api call

# API DOCUMENTATION EXPLANATION

A picture containing text

Description automatically generated

Figure .footer menu with links

To find the link for the API documentation can be done in two ways.

1. The footer of the home page has the “Explore findl data” section which has the same link for all the choices presented. (Figure 7)
2. The alternative option is to find the link on the drop-down menu (Figure 3), select the “Documentation” option to arrive at this page below.

Graphical user interface, text, application

Description automatically generated

Figure .API documentation

The first thing you may notice on the page is the API keys that authenticated to your free version account. “You can find your profile page” does not provide the link, but to access your profile page follow the link below:

<https://www.findl.com/account> (select top menu “Hi,findl”, select “My account”)

Graphical user interface, text, application

Description automatically generated

Figure .API documentation continued 1

Important information is displayed further down the “API documentation” (Figure 9 is lower section of Figure 8).

Read the sections “Token Security” and” Rate limiting and Throttling” as it explains the risks of security mitigation.

The “Format” and “Status and Error Codes” sections will be explained in more detail each query has example template below (Figure 10)

Graphical user interface, text, application, email

Description automatically generated

Figure .API documentation continued 2

Try some of the API documentation examples to understand more the format that is explained in the path parameters.

Graphical user interface, text, application

Description automatically generated

Figure .API documentation fundamentals function

This request returned an error message “Unauthorised”, and I would assume this is because no API keys allowed the findl server to release response back to the user.

Graphical user interface, text, application

Description automatically generated

Figure .API Documentation fundamentals function

Running the same parameter with an authenticated API key returns a result, note the documentation was showing the format requires to avoid errors in the results of query. The count is 41 meaning that the first 1000 data points returned a result, “Fundamentals” has number of fields associated when you do not use more filters, so 41 stocks returned responses in the first 1000, using the skip function would allow the next result no to include duplicate results.

Try adding the “Limit” path parameter with the last API call, and hopefully the count is reduced to 6.

Graphical user interface, text, application

Description automatically generated

Figure .API documentation limit function

This was easy enough to add to the existing API call, because the format was allowed according to the documentation. Since “limit” had not appeared in query yet (Figure 12), simply adding “&” “ampersand” tells the findl server that I do not require 41 stocks as in Figure 12, and please return the first six stocks as I did not specify specific ticker symbol.

Graphical user interface, text, application

Description automatically generated

Figure .API documentation skip function

In the same example thus far (Figure 12,13,14) the order of adding “&” “ampersand” “limit” does not return any errors, since the basic request asked to return the 41 items, but would like to skip the first 10 items, and the JSON result does not have 41 items returned, but instead 31 items retrieved from the findl server.

Moving on to the “fields” string optional this will be specific filters applied (to the Figure 12,13,14), in the order to select the corresponding fields which do change according to the various tables, the best option is to use the query editor in this case, eitherwise pulling the tables description (JSON), currently there is no way to do this on the query editor, and using the format below, you can understand the taxonomies of the tables with fields hierarchies.

**{**

**"table": "fundamentals",**

**"indicator": "payables",**

**"isfilter": "N",**

**"isprimarykey": "N",**

**"title": "Trade and Non-Trade Payables",**

**"description": "[Balance Sheet] A component of [Liabilities] representing trade and non-trade payables.",**

**"unittype": "currency"**

**},**

The above example of one of the “fundamentals” fields in indicator “payables”, lets use this as part of understanding the path parameter in Figure 10. This result indicates that the correct format involves separating multiple fields with a comma (,) and knowing which fields are available per table.

Graphical user interface, text, application, email

Description automatically generated

Figure .query editor taxonomies

That was useful to show since having the taxonomies in mind will make it easier to manipulate the URL with more practice of successful API calls. Back to the example of Figure 14, and adding on the documentation string optional:

Graphical user interface, text, application

Description automatically generated

The existing example is gaining more parameters as they are introduced, and you should use “&” ”ampersand” with the “field=ticker,dimension,date” as per documentation in the URL as is.

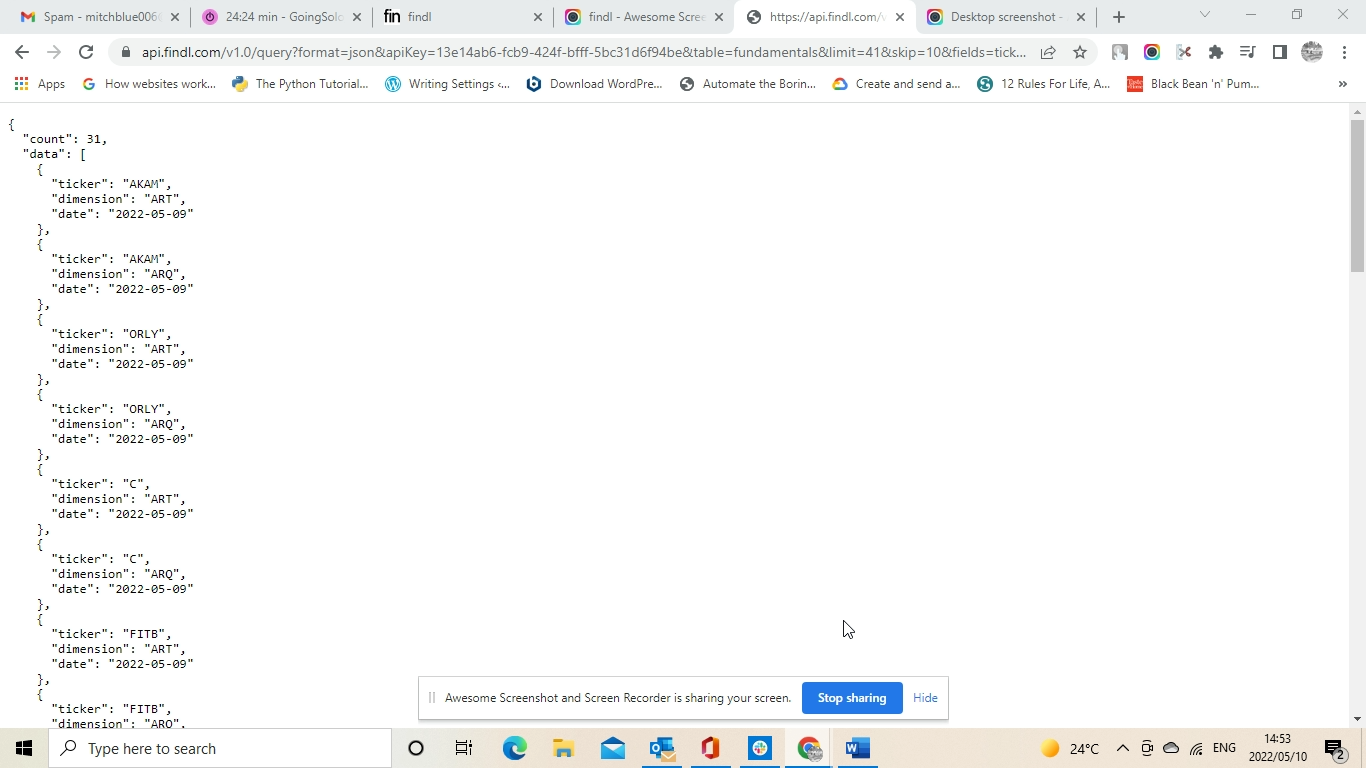


Figure .API documentation field function

The successful API call kept the same limit of 31 net items (remember we skipped the first 10 items on previous parameter example), the call returns fewer fields than if it was left to default, this also should be understood as possible columns for data analysis, and if you are an Excel user, see the version 2 tutorial to organize your calls into saved files for further analyses.

|  |  |  |
| --- | --- | --- |
| **DIMENSIONS** | **AS REPORTED** | **MOST-RECENT REPORTED** |
| Annual | ARY | MRY |
| Quarterly | ARQ | MRQ |
| Trailing Twelve Months | ART | MRT |

This is probably the most appropriate time to discuss what the “dimension” variable means in the context of financial reporting. This table should detail all the possible dimensions that can be called from the findl server.

Table 1: What is the difference between ARY,ARQ,ART,MRY,MRQ,MRT?

Graphical user interface, text, application, email

Description automatically generated

Figure .API documentation continued 3

The “sort” function is not a filter, it is much like the function in Excel that sorts the order of the data type in ascending or descending order.

With previous example (Figure 16),try the “sort=date.desc” syntax, remember to use “&” “ampersand” to avoid any errors.

The dates from the previous example had no real range, but still, the sort function rearranged the order that appear on the result (see Figure 17 below)

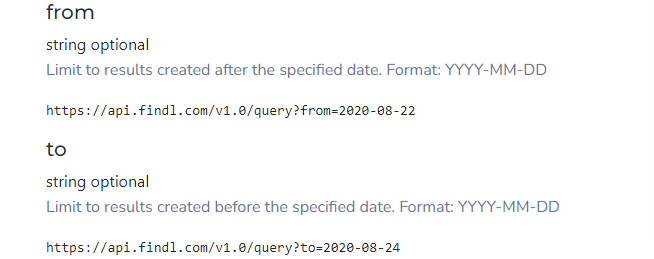
Graphical user interface, text, application

Description automatically generated

Figure .API documentation sort function

That hopefully improves your confidence that query editor has a structured format, and these documentation examples are still successful even though the additional syntax returns no error.

With the next path parameter using “date”, try incorporating both the “to” and “from” functions, since most of your API calls deal with range, and in theory the “from” only function should work with whatever date you request the dataset.



With that range being 2 days on the documentation, try some larger range like 3 month period, so input”&from=2022-01-01&to=2022-03-31”.

The descending “sort” function from previous Figure 18 will still active, try the call now.

It is another successful API call, with all the new structured language, did you notice the item number went back to 41 items in the result below (Figure 19)?

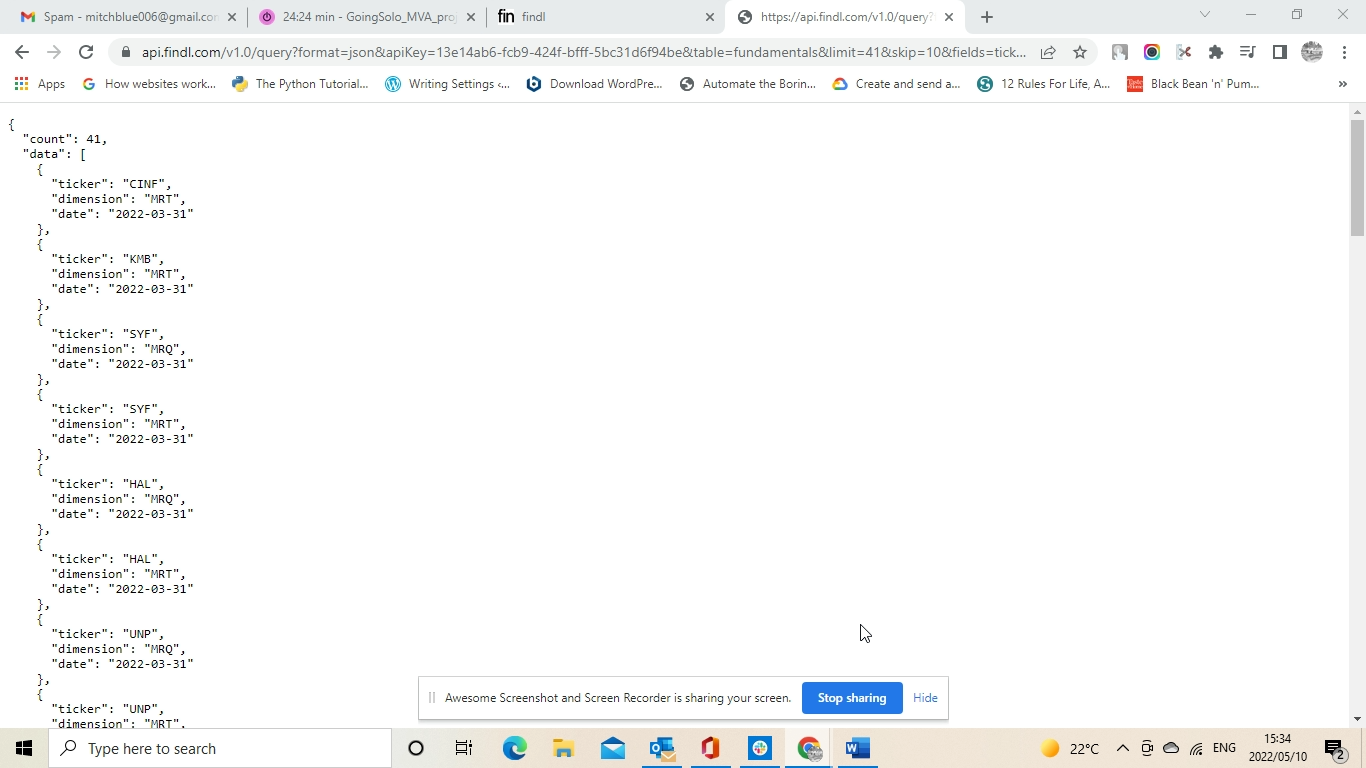


Figure .API documentation date function

The reason for that is the large new date range was not for a single day, but the three-month period you indicated in the API call, since the “limit” function still returns 41 items, the “skip” function still skipped the first 10 results, and the date range would have increased the total number of results which is not accessible because of the “limit” function.

Try removing the “limit” function from the API call for bonus credit, the default is 1,000 items that would return, so the count of the items should return 1,000 with that modification.

The API documentation is almost done, and for more practice on understanding the syntax, and the functionalities of the findl account, see Chapter:Troubleshooting Section.

The penultimate string optional on API documentation is “filter”, and if you were quick to experience your first API call (see Chapter:First API call using Query Editor), you have noticed that knowing which stock to search for brings down the count significantly, adding to the running example from Figure 19, try adding the following format to the URL using the Apple stock(AAPL) example to see the reduced returned count of items.

Text

Description automatically generated with medium confidence

Try “ticker=CINF&dimension=MRT”

Graphical user interface, text, application

Description automatically generated

Figure .API documentation filter function

When justing adding the new path parameter, the results should be zero, since the filter has reduced the search to one specific stock (This means that there would be less than 10 results for quarterly reports, so removing “limit” and “skip” provides the above Figure 20).

This should be a steep learning curve showing that understanding the functions goes a long way in returning a successful API call.

Finally, the “format” function is a great way to save the download in either the CSV or JSON format. Until now every parameter in the running example has been inserted in the URL, so no additional files have been created whilst running these successful calls.

Graphical user interface, text, application

Description automatically generated

Every example has had this string optional there all along!

Go through the Figure 12-20, and notice how “format=JSON” appears in every call to this point, try substituting some of the calls with “format=CSV” and notice the automatic download in the lower left corner of your PC.

# COMMON MISTAKES ON FREE VERSION

# LIMITS ON DATE RANGE

The first time querying different combinations of “tables” with the date format. For example, if you dated beyond 2017 for a data request seeking data older than 5 years.

A picture containing graphical user interface

Description automatically generated

Figure .Troubleshooting invalid data range

As described in the earlier Getting started section, the error 403 message is a consequence of the free version, to obtain data ranges that date back to 1997, consider the paid packages shown on the following screenshots.

Graphical user interface

Description automatically generated

Figure .Troubleshooting product features

On the free version, the fundamentals data is provided with limits, the call-to-action button on this page will upgrade the fee version to a paid account, the data overview section has three redirects.

<https://www.findl.com/#fundamentals> (This above screenshot’s permalink)

<https://www.findl.com/docs> (All three redirects go to this API documentation link)

Graphical user interface, application

Description automatically generated

Figure .Troubleshooting Account types

The page scrolls down to the various packages for consideration, for individual, startup, and enterprise. The purpose of the free version is to create action-oriented approach for developers, and immediately yield responses for value added benefits.

GETTING STARTED TUTORIAL

VERSION 2 FOR EXCEL AND POWER BI USERS

# INTENDED AUDIENCE

This guide is intended for users that are not complete novices, but with findl UX references may be used for the experienced excel or power bi integrations ([see version 1 novice tutorial](#_GETTING_STARTED_TUTORIALS)).

For some of this tutorial, it is expected that you have Microsoft Excel and Power BI pre-installed, whether the version of the software is updated or not the screenshots consider the desktop versions of the programs mentioned.

# REGISTRATION FOR NEW USERS

The instructions for different scenarios consider the user signing up with findl free account. Follow the link below for first sign-in.

[First sign-in](#Signup)

# ABOUT THIS PRODUCT

This is probably the first time you have heard of APIs or even what is an API call? Not to worry, this quick explanation of what this product does may help you to taste early success by running your first API Call! (See Chapter: Your First API call using findl)

**API***is the acronym for Application Programming Interface, which is a software intermediary that allows two applications to talk to each other. In finance, REST API (specifically as RESTful API) is****an application programming interface (API or web API) that conforms to the constraints of REST architectural style and allows for interaction with RESTful web services****. REST stands for representational state transfer and was created by computer scientist Roy Fielding.*

Findl is essentially a version of this service provided for users requesting financial database information on demand. Let’s taste some early success by diving into your first API call!

# YOUR FIRST API CALL USING QUERY EDITOR

[See version 1 tutorial for novices to get accustomed to the API documentation](#_YOUR_FIRST_API)

# EXCEL BEST PRACTICES

If you performed some of the version 1 practice, you might be thinking what type of CSV will be most effective when preparing for next step in data analysis tools connect.

[See string optional that allows format to be saved as CSV file](#Format)

For this walkthrough we are going to focus on one stock with reference to all the “tables”, search for a date range over the last 5 years and develop best practice for storing these files for later joins.

The best way to ensure no tables are missed are to tackle this problem meticulously. See the process below:-

**Step 1: Run first table function using Query Editor**

**Graphical user interface, text, application, email

Description automatically generated**

Figure .Excel best practice query editor

Note that the date could not go before 2017-05-01, so for example purposes the “from” :2018-05-01 was used.

All the fields available were selected

Since one stock is meticulously called per query, the limit and skip functions were left to default.

**Step 2: Save CSV files meticulously**

**Graphical user interface, application, table, Excel

Description automatically generated**

Figure .Excel best practices save file

Notice, how the file name “actions” matches the search query by “table”, and can reference later what the columns mean when importing its value ([see:JSON example table descriptions](#TableDescriptions))

Also, [the whole appendix](#Appendix) to this Getting Started Tutorial has the full list of JSON table descriptions for user perusal.

Renaming each file as the download completes with appropriate file name will make the next stage much easier.

**Step 3: Run next table function with static fields**

**Graphical user interface, text, application

Description automatically generated**

Figure .Excel best practice query editor 2

This next query might be more than 1,000 items. Yes, it turns out that the date range is large enough for single stock that it shows a few missing items still. See the spreadsheet ending on 1001, since the header column does not take up that extra space for the query.

Graphical user interface, application, table, Excel

Description automatically generated

Figure .Excel best practice csv 2

I managed to change the “limit” field to 10,000, and this yielded the appropriate missing items compared to Figure 24.

Graphical user interface, application, table, Excel

Description automatically generated

Figure .Excel best practice csv 3

**Step 4: Complete remaining functions for CSV collections**

The next process would involve repeating steps 1-3 until the last function is complete.

This brings the end of the gathering data phase using Excel, and there were a few requests where the permissions wall prevented a response ([see:Troubleshooting free version](#_COMMON_MISTAKES_ON))

Graphical user interface, text, application

Description automatically generated

Figure .Excel best practice query error

Once these steps 1-4 are complete, you might a folder full of saved CSV files, at this stage I have no solution to add the downloaded files as a sheet to one master download file but will think about adding this in future.

Graphical user interface, application

Description automatically generated

Figure .Excel best practice file mngr

The meticulous method may come across as static, and long. There is a method described later for Power BI users(see:Power BI best practices) that use dynamic advanced editor options that make calls on your behalf for multiple stocks and multiple “tables”

I am going to try to get this demo done in under 15 mins, excuse the voice quality and sometimes I speak faster when things are gathering speed.

Starting with Power BI

I have opened a new document, there is no data, and I will walkthrough this useful test case for gathering multiple “gets” in this instance, using a excel spreadsheet to have a custom function run through the additional pull, and all the JSON data is pulled from our FINDL database, and this might be the method you choose when looking for multiple stocks without manually calling each REST API query one at a time.

In FINDL

I have access keys, I have this free account with FINDL, now I am interested to look at the last year, lets say the trailing twelve months most reported format. I will use stocks AAPL, NFLX, TSLA, AMZN, and MSFT. This will be done with a custom function in Power BI, which means I will progress with one query, and the custom function will do the rest with permissions from the Power Query.

In Power BI

I used the two downloadable visualizations available for free from Microsoft, download Candlestick and Chiclet Slicer from the interface.

In Excel

Since I know the list of the stocks I would like tables queried for, have this file ready to retrieve saved to desktop or any folder that you can find when requested by Power BI to connect.

In FINDL

Lets head to the Query editor, and will perform the necessary fields to yield a successful result, use “stocks”, include ticker,date,high,low,opening,closing in the fields section,use “AAPL” as the sort option, and dimension could equal “MRT”, and choose a date range, I will make this May 2021 to May 2022 for simplicity.

We are ready to run, now it will download a file if you selected the excel or JSON save function,but more importantly save the query’s editor successful result which is the URL that you can now copy.

In POWER BI

We will now create the custom invoke function, which requires some code, and you would need to go to advanced editor and type the following…

(StockQuote as text) as table =>

let

Source = Json.Document(Web.Contents("https://api.findl.com/v1.0/query?format=json&apiKey=13e14ab6-fcb9-424f-bfff-5bc31d6f94be&table=stocks&fields=ticker,date,open,high,low,close,volume,closeunadj&from=2021-11-30&to=2022-02-28&ticker="&StockQuote&"")),

#"Converted to Table" = Table.FromRecords({Source}),

#"Expanded data" = Table.ExpandListColumn(#"Converted to Table", "data"),

#"Expanded data1" = Table.ExpandRecordColumn(#"Expanded data", "data", {"ticker", "date", "open", "high", "low", "close", "volume", "closeunadj"}, {"data.ticker", "data.date", "data.open", "data.high", "data.low", "data.close", "data.volume", "data.closeunadj"}),

#"Changed Type" = Table.TransformColumnTypes(#"Expanded data1",{{"count", Int64.Type}, {"data.ticker", type text}, {"data.date", type date}, {"data.open", type text}, {"data.high", type text}, {"data.low", type text}, {"data.close", type text}, {"data.volume", type text}, {"data.closeunadj", type text}})

in

#"Changed Type"

Connect the Excel table to the Power BI, and add the custom invoke function as additional column to this imported data, you should notice its runtime, and the next step would be to check the datatypes in transform data.

Close and start the display section, follow the video below to get the sample to match the two visualization settings

# APPENDIX: FULL LIST TABLE DESCRIPTIONS (JSON)

[

{

"table": "fundamentals",

"indicator": "payables",

"isfilter": "N",

"isprimarykey": "N",

"title": "Trade and Non-Trade Payables",

"description": "[Balance Sheet] A component of [Liabilities] representing trade and non-trade payables.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "bvps",

"isfilter": "N",

"isprimarykey": "N",

"title": "Book Value per Share",

"description": "[Metrics] Measures the ratio between [Equity] and [SharesWA] as adjusted by [ShareFactor].",

"unittype": "currency/share"

},

{

"table": "fundamentals",

"indicator": "calendardate",

"isfilter": "Y",

"isprimarykey": "N",

"title": "Calendar Date",

"description": "[Entity] The Calendar Date represents the normalized [ReportPeriod]. This provides a common date to query for which is necessary due to irregularity in report periods across companies. For example; if the report period is \"2015-09-26\"; the calendar date will be \"2015-09-30\" for quarterly and trailing-twelve-month dimensions (ARQ;MRQ;ART;MRT); and \"2015-12-31\" for annual dimensions (ARY;MRY). We also employ offsets in order to maximise comparability of the period across companies. For example consider two companies: one with a quarter ending on 2018-07-24; and the other with a quarter ending on 2018-06-28. A naive normalization process would assign these to differing calendar quarters of 2018-09-30 and 2018-06-30 respectively. However, we assign these both to the 2018-06-30 calendar quarter because this maximises the overlap in the report periods in question and therefore the comparability of this period.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "fundamentals",

"indicator": "currentratio",

"isfilter": "N",

"isprimarykey": "N",

"title": "Current Ratio",

"description": "[Metrics] The ratio between [AssetsC] and [LiabilitiesC]; for companies that operate a classified balance sheet.",

"unittype": "ratio"

},

{

"table": "insiders",

"indicator": "isdirector",

"isfilter": "N",

"isprimarykey": "N",

"title": "Is Director?",

"description": "Is the owner a Board Director? [Y]es or [N]o.",

"unittype": "Y/N"

},

{

"table": "actions",

"indicator": "contraname",

"isfilter": "N",

"isprimarykey": "N",

"title": "Contra Issuer Name",

"description": "The name of the contra issuer associated with the contra ticker.",

"unittype": "text"

},

{

"table": "actions",

"indicator": "contraticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Contra Ticker Symbol",

"description": "The available actions in this field are outlined in the INDICATORS table where the table field equals \"ACTIONTYPES\".",

"unittype": "text"

},

{

"table": "actions",

"indicator": "name",

"isfilter": "N",

"isprimarykey": "N",

"title": "Issuer Name",

"description": "The name of the issuer.",

"unittype": "text"

},

{

"table": "actions",

"indicator": "action",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Action",

"description": "The available actions in this field are outlined in the INDICATORS table where the table field equals \"ACTIONTYPES\".",

"unittype": "text"

},

{

"table": "actions",

"indicator": "date",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Date",

"description": "The date of the corporate action.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "actions",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "actions",

"indicator": "value",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value",

"description": "The available values in this field are outlined in the INDICATORS table where the table field equals \"ACTIONTYPES\".",

"unittype": "numeric"

},

{

"table": "daily",

"indicator": "date",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Price Date",

"description": "The trade date of the price observations used in determining [MarketCap], [PE], [PS] etc.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "daily",

"indicator": "ev",

"isfilter": "N",

"isprimarykey": "N",

"title": "Enterprise Value - Daily",

"description": "Enterprise value is a measure of the value of a business as a whole; calculated as [MarketCap] plus [DebtUSD] minus [CashnEqUSD]. [MarketCap] is calculated by us, and the remaining figures are sourced from the most recent SEC form 10 filings.",

"unittype": "USD millions"

},

{

"table": "daily",

"indicator": "evebit",

"isfilter": "N",

"isprimarykey": "N",

"title": "Enterprise Value over EBIT - Daily",

"description": "Measures the ratio between [EV] and [EBITUSD]. EBITUSD is derived from the most recent SEC form 10 filings.",

"unittype": "ratio"

},

{

"table": "daily",

"indicator": "evebitda",

"isfilter": "N",

"isprimarykey": "N",

"title": "Enterprise Value over EBITDA - Daily",

"description": "Measures the ratio between [EV] and [EBITDAUSD]. EBITDAUSD is derived from the most recent SEC form 10 filings.",

"unittype": "ratio"

},

{

"table": "daily",

"indicator": "lastupdated",

"isfilter": "Y",

"isprimarykey": "N",

"title": "Last Updated Date",

"description": "The last date at which this line item was updated, typically used to filter date to be retrieved for syncing to local records.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "daily",

"indicator": "marketcap",

"isfilter": "N",

"isprimarykey": "N",

"title": "Market Capitalization - Daily",

"description": "Represents the product of [SharesBas]; [Price] and [ShareFactor]. [SharesBas] is sourced from the most recent SEC form 10 filing.",

"unittype": "USD millions"

},

{

"table": "daily",

"indicator": "pb",

"isfilter": "N",

"isprimarykey": "N",

"title": "Price to Book Value - Daily",

"description": "Measures the ratio between [MarketCap] and [EquityUSD]. [EquityUSD] is sourced from the most recent SEC form 10 filing.",

"unittype": "ratio"

},

{

"table": "daily",

"indicator": "pe",

"isfilter": "N",

"isprimarykey": "N",

"title": "Price Earnings (Damodaran Method) - Daily",

"description": "Measures the ratio between [MarketCap] and [NetIncCmnUSD]. [NetIncCmnUSD] is sourced from the most recent SEC form 10 filings.",

"unittype": "ratio"

},

{

"table": "daily",

"indicator": "ps",

"isfilter": "N",

"isprimarykey": "N",

"title": "Price Sales (Damodaran Method) - Daily",

"description": "Measures the ratio between [MarketCap] and [RevenueUSD]. [RevenueUSD] is sourced from the most recent SEC form 10 filings.",

"unittype": "ratio"

},

{

"table": "daily",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "events",

"indicator": "date",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Filing Date",

"description": "The date of the form 8 SEC filing.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "events",

"indicator": "eventcodes",

"isfilter": "N",

"isprimarykey": "N",

"title": "Material Corporate Events",

"description": "Each type of event is assigned a 2-digit numeric code which are described in this INDICATORS table where the table field equals \"EVENTCODES\".",

"unittype": "text"

},

{

"table": "events",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "descriptions",

"indicator": "description",

"isfilter": "N",

"isprimarykey": "N",

"title": "Indicator Description",

"description": null,

"unittype": "text"

},

{

"table": "descriptions",

"indicator": "indicator",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Indicator Code",

"description": null,

"unittype": "text"

},

{

"table": "descriptions",

"indicator": "isfilter",

"isfilter": "N",

"isprimarykey": "N",

"title": "Is Filter?",

"description": null,

"unittype": "Y/N"

},

{

"table": "descriptions",

"indicator": "isprimarykey",

"isfilter": "N",

"isprimarykey": "N",

"title": "Is Primary Key?",

"description": null,

"unittype": "Y/N"

},

{

"table": "descriptions",

"indicator": "table",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Table",

"description": "The database table which the ticker is featured in. Examples are: \"SF1\" or \"SEP\". ",

"unittype": "text"

},

{

"table": "descriptions",

"indicator": "title",

"isfilter": "N",

"isprimarykey": "N",

"title": "Indicator Title",

"description": null,

"unittype": "text"

},

{

"table": "descriptions",

"indicator": "unittype",

"isfilter": "N",

"isprimarykey": "N",

"title": "Indicator Unit Type",

"description": null,

"unittype": "text"

},

{

"table": "stocks",

"indicator": "close",

"isfilter": "N",

"isprimarykey": "N",

"title": "Close Price - Split Adjusted",

"description": "The official exchange close price, adjusted for stock splits and stock dividends. Not adjusted for cash dividends or spinoffs.",

"unittype": "USD/share"

},

{

"table": "stocks",

"indicator": "closeadj",

"isfilter": "N",

"isprimarykey": "N",

"title": "Close Price - Adjusted for Splits Dividends and Spinoffs",

"description": "The official exchange close price, adjusted for stock splits, stock dividends, cash dividends and spinoffs.",

"unittype": "USD/share"

},

{

"table": "stocks",

"indicator": "closeunadj",

"isfilter": "N",

"isprimarykey": "N",

"title": "Close Price - Unadjusted",

"description": "The official exchange close price, not adjusted for stock splits, stock dividends, cash dividends or spinoffs.",

"unittype": "USD/share"

},

{

"table": "stocks",

"indicator": "date",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Price Date",

"description": "The trade date of the price observations.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "stocks",

"indicator": "high",

"isfilter": "N",

"isprimarykey": "N",

"title": "High Price - Split Adjusted",

"description": "The high share price, adjusted for stock splits and stock dividends. Not adjusted for cash dividends or spinoffs.",

"unittype": "USD/share"

},

{

"table": "stocks",

"indicator": "lastupdated",

"isfilter": "Y",

"isprimarykey": "N",

"title": "Last Updated Date",

"description": "The last date at which this line item was updated, typically used to filter data to be retrieved for syncing to local records.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "stocks",

"indicator": "low",

"isfilter": "N",

"isprimarykey": "N",

"title": "Low Price - Split Adjusted",

"description": "The low share price, adjusted for stock splits and stock dividends. Not adjusted for cash dividends or spinoffs.",

"unittype": "USD/share"

},

{

"table": "stocks",

"indicator": "open",

"isfilter": "N",

"isprimarykey": "N",

"title": "Open Price - Split Adjusted",

"description": "The official exchange opening price, adjusted for stock splits and stock dividends. Not adjusted for cash dividends or spinoffs.",

"unittype": "USD/share"

},

{

"table": "stocks",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "stocks",

"indicator": "volume",

"isfilter": "N",

"isprimarykey": "N",

"title": "Volume - Split Adjusted",

"description": "The traded volume across all exchanges, adjusted for stock splits and stock dividends. Not adjusted for cash dividends or spinoffs. Includes opening and closing cross volumes if applicable.",

"unittype": "numeric"

},

{

"table": "fundamentals",

"indicator": "accoci",

"isfilter": "N",

"isprimarykey": "N",

"title": "Accumulated Other Comprehensive Income",

"description": "[Balance Sheet] A component of [Equity] representing the accumulated change in equity from transactions and other events and circumstances from non-owner sources; net of tax effect; at period end. Includes foreign currency translation items; certain pension adjustments; unrealized gains and losses on certain investments in debt and equity securities.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "assets",

"isfilter": "N",

"isprimarykey": "N",

"title": "Total Assets",

"description": "[Balance Sheet] Sum of the carrying amounts as of the balance sheet date of all assets that are recognized. Major components are [CashnEq]; [Investments];[Intangibles]; [PPNENet];[TaxAssets] and [Receivables].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "assetsavg",

"isfilter": "N",

"isprimarykey": "N",

"title": "Average Assets",

"description": "[Metrics] Average asset value for the period used in calculation of [ROE] and [ROA]; derived from [Assets].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "assetsc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Current Assets",

"description": "[Balance Sheet] The current portion of [Assets]; reported if a company operates a classified balance sheet that segments current and non-current assets.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "assetsnc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Assets Non-Current",

"description": "[Balance Sheet] Amount of non-current assets; for companies that operate a classified balance sheet. Calculated as the different between Total Assets [Assets] and Current Assets [AssetsC].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "assetturnover",

"isfilter": "N",

"isprimarykey": "N",

"title": "Asset Turnover",

"description": "[Metrics] Asset turnover is a measure of a firms operating efficiency; calculated by dividing [Revenue] by [AssetsAVG]. Often a component of DuPont ROE analysis.",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "capex",

"isfilter": "N",

"isprimarykey": "N",

"title": "Capital Expenditure",

"description": "[Cash Flow Statement] A component of [NCFI] representing the net cash inflow (outflow) associated with the acquisition & disposal of long-lived; physical & intangible assets that are used in the normal conduct of business to produce goods and services and are not intended for resale. Includes cash inflows/outflows to pay for construction of self-constructed assets & software.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "cashneq",

"isfilter": "N",

"isprimarykey": "N",

"title": "Cash and Equivalents",

"description": "[Balance Sheet] A component of [Assets] representing the amount of currency on hand as well as demand deposits with banks or financial institutions.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "cashnequsd",

"isfilter": "N",

"isprimarykey": "N",

"title": "Cash and Equivalents (USD)",

"description": "[Balance Sheet] [CashnEq] in USD; converted by [FXUSD].",

"unittype": "USD"

},

{

"table": "fundamentals",

"indicator": "consolinc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Consolidated Income",

"description": "[Income Statement] The portion of profit or loss for the period; net of income taxes; which is attributable to the consolidated entity; before the deduction of [NetIncNCI].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "cor",

"isfilter": "N",

"isprimarykey": "N",

"title": "Cost of Revenue",

"description": "[Income Statement] The aggregate cost of goods produced and sold and services rendered during the reporting period.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "de",

"isfilter": "N",

"isprimarykey": "N",

"title": "Debt to Equity Ratio",

"description": "[Metrics] Measures the ratio between [Liabilities] and [Equity].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "debt",

"isfilter": "N",

"isprimarykey": "N",

"title": "Total Debt",

"description": "[Balance Sheet] A component of [Liabilities] representing the total amount of current and non-current debt owed. Includes secured and unsecured bonds issued; commercial paper; notes payable; credit facilities; lines of credit; capital lease obligations; operating lease obligations; and convertible notes.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "debtc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Debt Current",

"description": "[Balance Sheet] The current portion of [Debt]; reported if the company operates a classified balance sheet that segments current and non-current liabilities.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "debtnc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Debt Non-Current",

"description": "[Balance Sheet] The non-current portion of [Debt] reported if the company operates a classified balance sheet that segments current and non-current liabilities.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "debtusd",

"isfilter": "N",

"isprimarykey": "N",

"title": "Total Debt (USD)",

"description": "[Balance Sheet] [Debt] in USD; converted by [FXUSD].",

"unittype": "USD"

},

{

"table": "fundamentals",

"indicator": "investmentsnc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Investments Non-Current",

"description": "[Balance Sheet] The non-current portion of [Investments]; reported if the company operates a classified balance sheet that segments current and non-current assets.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "deferredrev",

"isfilter": "N",

"isprimarykey": "N",

"title": "Deferred Revenue",

"description": "[Balance Sheet] A component of [Liabilities] representing the carrying amount of consideration received or receivable on potential earnings that were not recognized as revenue; including sales; license fees; and royalties; but excluding interest income.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "depamor",

"isfilter": "N",

"isprimarykey": "N",

"title": "Depreciation Amortization & Accretion",

"description": "[Cash Flow Statement] A component of operating cash flow representing the aggregate net amount of depreciation; amortization; and accretion recognized during an accounting period. As a non-cash item; the net amount is added back to net income when calculating cash provided by or used in operations using the indirect method.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "deposits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Deposit Liabilities",

"description": "[Balance Sheet] A component of [Liabilities] representing the total of all deposit liabilities held; including foreign and domestic; interest and noninterest bearing. May include demand deposits; saving deposits; Negotiable Order of Withdrawal and time deposits among others.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "dimension",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Dimension",

"description": "[Entity] The dimension field allows you to take different dimensional views of data over time. ARQ: Quarterly; excluding restatements; MRQ: Quarterly; including restatements; ARY: annual; excluding restatements; MRY: annual; including restatements; ART: trailing-twelve-months; excluding restatements; MRT: trailing-twelve-months; including restatements.",

"unittype": "text"

},

{

"table": "fundamentals",

"indicator": "divyield",

"isfilter": "N",

"isprimarykey": "N",

"title": "Dividend Yield",

"description": "[Metrics] Dividend Yield measures the ratio between a company's [DPS] and its [Price].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "dps",

"isfilter": "N",

"isprimarykey": "N",

"title": "Dividends per Basic Common Share",

"description": "[Income Statement] Aggregate dividends declared during the period for each split-adjusted share of common stock outstanding.",

"unittype": "USD/share"

},

{

"table": "fundamentals",

"indicator": "ebit",

"isfilter": "N",

"isprimarykey": "N",

"title": "Earning Before Interest & Taxes (EBIT)",

"description": "[Income Statement] Earnings Before Interest and Tax is calculated by adding [TaxExp] and [IntExp] back to [NetInc].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ebitda",

"isfilter": "N",

"isprimarykey": "N",

"title": "Earnings Before Interest Taxes & Depreciation Amortization (EBITDA)",

"description": "[Metrics] EBITDA is a non-GAAP accounting metric that is widely used when assessing the performance of companies; calculated by adding [DepAmor] back to [EBIT].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ebitdamargin",

"isfilter": "N",

"isprimarykey": "N",

"title": "EBITDA Margin",

"description": "[Metrics] Measures the ratio between a company's [EBITDA] and [Revenue].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "ebitdausd",

"isfilter": "N",

"isprimarykey": "N",

"title": "Earnings Before Interest Taxes & Depreciation Amortization (USD)",

"description": "[Metrics] [EBITDA] in USD; converted by [FXUSD].",

"unittype": "USD"

},

{

"table": "fundamentals",

"indicator": "ebitusd",

"isfilter": "N",

"isprimarykey": "N",

"title": "Earning Before Interest & Taxes (USD)",

"description": "[Income Statement] [EBIT] in USD; converted by [FXUSD].",

"unittype": "USD"

},

{

"table": "fundamentals",

"indicator": "ebt",

"isfilter": "N",

"isprimarykey": "N",

"title": "Earnings before Tax",

"description": "[Metrics] Earnings Before Tax is calculated by adding [TaxExp] back to [NetInc].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "eps",

"isfilter": "N",

"isprimarykey": "N",

"title": "Earnings per Basic Share",

"description": "[Income Statement] Earnings per share as calculated and reported by the company. Approximates to the amount of [NetIncCmn] for the period per each [SharesWA] after adjusting for [ShareFactor].",

"unittype": "currency/share"

},

{

"table": "fundamentals",

"indicator": "epsdil",

"isfilter": "N",

"isprimarykey": "N",

"title": "Earnings per Diluted Share",

"description": "[Income Statement] Earnings per diluted share as calculated and reported by the company. Approximates to the amount of [NetIncCmn] for the period per each [SharesWADil] after adjusting for [ShareFactor]..",

"unittype": "currency/share"

},

{

"table": "fundamentals",

"indicator": "epsusd",

"isfilter": "N",

"isprimarykey": "N",

"title": "Earnings per Basic Share (USD)",

"description": "[Income Statement] [EPS] in USD; converted by [FXUSD].",

"unittype": "USD/share"

},

{

"table": "fundamentals",

"indicator": "equity",

"isfilter": "N",

"isprimarykey": "N",

"title": "Shareholders Equity",

"description": "[Balance Sheet] A principal component of the balance sheet; in addition to [Liabilities] and [Assets]; that represents the total of all stockholders' equity (deficit) items; net of receivables from officers; directors; owners; and affiliates of the entity which are attributable to the parent.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "equityavg",

"isfilter": "N",

"isprimarykey": "N",

"title": "Average Equity",

"description": "[Metrics] Average equity value for the period used in calculation of [ROE]; derived from [Equity].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "equityusd",

"isfilter": "N",

"isprimarykey": "N",

"title": "Shareholders Equity (USD)",

"description": "[Balance Sheet] [Equity] in USD; converted by [FXUSD].",

"unittype": "USD"

},

{

"table": "fundamentals",

"indicator": "ev",

"isfilter": "N",

"isprimarykey": "N",

"title": "Enterprise Value",

"description": "[Metrics] Enterprise value is a measure of the value of a business as a whole; calculated as [MarketCap] plus [DebtUSD] minus [CashnEqUSD].",

"unittype": "USD"

},

{

"table": "fundamentals",

"indicator": "evebit",

"isfilter": "N",

"isprimarykey": "N",

"title": "Enterprise Value over EBIT",

"description": "[Metrics] Measures the ratio between [EV] and [EBITUSD].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "evebitda",

"isfilter": "N",

"isprimarykey": "N",

"title": "Enterprise Value over EBITDA",

"description": "[Metrics] Measures the ratio between [EV] and [EBITDAUSD].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "fcf",

"isfilter": "N",

"isprimarykey": "N",

"title": "Free Cash Flow",

"description": "[Metrics] Free Cash Flow is a measure of financial performance calculated as [NCFO] minus [CapEx].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "fcfps",

"isfilter": "N",

"isprimarykey": "N",

"title": "Free Cash Flow per Share",

"description": "[Metrics] Free Cash Flow per Share is a valuation metric calculated by dividing [FCF] by [SharesWA] and [ShareFactor].",

"unittype": "currency/share"

},

{

"table": "fundamentals",

"indicator": "fxusd",

"isfilter": "N",

"isprimarykey": "N",

"title": "Foreign Currency to USD Exchange Rate",

"description": "[Metrics] The exchange rate used for the conversion of foreign currency to USD for non-US companies that do not report in USD.",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "gp",

"isfilter": "N",

"isprimarykey": "N",

"title": "Gross Profit",

"description": "[Income Statement] Aggregate revenue [Revenue] less cost of revenue [CoR] directly attributable to the revenue generation activity.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "grossmargin",

"isfilter": "N",

"isprimarykey": "N",

"title": "Gross Margin",

"description": "[Metrics] Gross Margin measures the ratio between a company's [GP] and [Revenue].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "intangibles",

"isfilter": "N",

"isprimarykey": "N",

"title": "Goodwill and Intangible Assets",

"description": "[Balance Sheet] A component of [Assets] representing the carrying amounts of all intangible assets and goodwill as of the balance sheet date; net of accumulated amortization and impairment charges.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "intexp",

"isfilter": "N",

"isprimarykey": "N",

"title": "Interest Expense",

"description": "[Income Statement] Amount of the cost of borrowed funds accounted for as interest expense.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "invcap",

"isfilter": "N",

"isprimarykey": "N",

"title": "Invested Capital",

"description": "[Metrics] Invested capital is an input into the calculation of [ROIC]; and is calculated as: [Debt] plus [Assets] minus [Intangibles] minus [CashnEq] minus [LiabilitiesC]. Please note this calculation method is subject to change.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "invcapavg",

"isfilter": "N",

"isprimarykey": "N",

"title": "Invested Capital Average",

"description": "[Metrics] Average invested capital value for the period used in the calculation of [ROIC]; and derived from [InvCap]. Invested capital is an input into the calculation of [ROIC]; and is calculated as: [Debt] plus [Assets] minus [Intangibles] minus [CashnEq] minus [LiabilitiesC]. Please note this calculation method is subject to change.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "inventory",

"isfilter": "N",

"isprimarykey": "N",

"title": "Inventory",

"description": "[Balance Sheet] A component of [Assets] representing the amount after valuation and reserves of inventory expected to be sold; or consumed within one year or operating cycle; if longer.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "investments",

"isfilter": "N",

"isprimarykey": "N",

"title": "Investments",

"description": "[Balance Sheet] A component of [Assets] representing the total amount of marketable and non-marketable securties; loans receivable and other invested assets.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "investmentsc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Investments Current",

"description": "[Balance Sheet] The current portion of [Investments]; reported if the company operates a classified balance sheet that segments current and non-current assets.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "lastupdated",

"isfilter": "Y",

"isprimarykey": "N",

"title": "Last Updated Date",

"description": "[Entity] Last Updated represents the last date that this database entry was updated; which is useful to users when updating their local records.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "fundamentals",

"indicator": "liabilities",

"isfilter": "N",

"isprimarykey": "N",

"title": "Total Liabilities",

"description": "[Balance Sheet] Sum of the carrying amounts as of the balance sheet date of all liabilities that are recognized. Principal components are [Debt]; [DeferredRev]; [Payables];[Deposits]; and [TaxLiabilities].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "liabilitiesc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Current Liabilities",

"description": "[Balance Sheet] The current portion of [Liabilities]; reported if the company operates a classified balance sheet that segments current and non-current liabilities.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "liabilitiesnc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Liabilities Non-Current",

"description": "[Balance Sheet] The non-current portion of [Liabilities]; reported if the company operates a classified balance sheet that segments current and non-current liabilities.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "marketcap",

"isfilter": "N",

"isprimarykey": "N",

"title": "Market Capitalization",

"description": "[Metrics] Represents the product of [SharesBas]; [Price] and [ShareFactor].",

"unittype": "USD"

},

{

"table": "fundamentals",

"indicator": "ncf",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Cash Flow / Change in Cash & Cash Equivalents",

"description": "[Cash Flow Statement] Principal component of the cash flow statement representing the amount of increase (decrease) in cash and cash equivalents. Includes [NCFO]; investing [NCFI] and financing [NCFF] for continuing and discontinued operations; and the effect of exchange rate changes on cash [NCFX].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ncfbus",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Cash Flow - Business Acquisitions and Disposals",

"description": "[Cash Flow Statement] A component of [NCFI] representing the net cash inflow (outflow) associated with the acquisition & disposal of businesses; joint-ventures; affiliates; and other named investments.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ncfcommon",

"isfilter": "N",

"isprimarykey": "N",

"title": "Issuance (Purchase) of Equity Shares",

"description": "[Cash Flow Statement] A component of [NCFF] representing the net cash inflow (outflow) from common equity changes. Includes additional capital contributions from share issuances and exercise of stock options; and outflow from share repurchases. ",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ncfdebt",

"isfilter": "N",

"isprimarykey": "N",

"title": "Issuance (Repayment) of Debt Securities ",

"description": "[Cash Flow Statement] A component of [NCFF] representing the net cash inflow (outflow) from issuance (repayment) of debt securities.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ncfdiv",

"isfilter": "N",

"isprimarykey": "N",

"title": "Payment of Dividends & Other Cash Distributions ",

"description": "[Cash Flow Statement] A component of [NCFF] representing dividends and dividend equivalents paid on common stock and restricted stock units.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ncff",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Cash Flow from Financing",

"description": "[Cash Flow Statement] A component of [NCF] representing the amount of cash inflow (outflow) from financing activities; from continuing and discontinued operations. Principal components of financing cash flow are: issuance (purchase) of equity shares; issuance (repayment) of debt securities; and payment of dividends & other cash distributions.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ncfi",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Cash Flow from Investing",

"description": "[Cash Flow Statement] A component of [NCF] representing the amount of cash inflow (outflow) from investing activities; from continuing and discontinued operations. Principal components of investing cash flow are: capital (expenditure) disposal of equipment [CapEx]; business (acquisitions) disposition [NCFBus] and investment (acquisition) disposal [NCFInv].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ncfinv",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Cash Flow - Investment Acquisitions and Disposals",

"description": "[Cash Flow Statement] A component of [NCFI] representing the net cash inflow (outflow) associated with the acquisition & disposal of investments; including marketable securities and loan originations.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ncfo",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Cash Flow from Operations",

"description": "[Cash Flow Statement] A component of [NCF] representing the amount of cash inflow (outflow) from operating activities; from continuing and discontinued operations.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "ncfx",

"isfilter": "N",

"isprimarykey": "N",

"title": "Effect of Exchange Rate Changes on Cash ",

"description": "[Cash Flow Statement] A component of Net Cash Flow [NCF] representing the amount of increase (decrease) from the effect of exchange rate changes on cash and cash equivalent balances held in foreign currencies.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "netinc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Income",

"description": "[Income Statement] The portion of profit or loss for the period; net of income taxes; which is attributable to the parent after the deduction of [NetIncNCI] from [ConsolInc]; and before the deduction of [PrefDivIS].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "netinccmn",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Income Common Stock",

"description": "[Income Statement] The amount of net income (loss) for the period due to common shareholders. Typically differs from [NetInc] to the parent entity due to the deduction of [PrefDivIS].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "netinccmnusd",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Income Common Stock (USD)",

"description": "[Income Statement] [NetIncCmn] in USD; converted by [FXUSD].",

"unittype": "USD"

},

{

"table": "fundamentals",

"indicator": "netincdis",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Loss Income from Discontinued Operations",

"description": "[Income Statement] Amount of loss (income) from a disposal group; net of income tax; reported as a separate component of income.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "netincnci",

"isfilter": "N",

"isprimarykey": "N",

"title": "Net Income to Non-Controlling Interests",

"description": "[Income Statement] The portion of income which is attributable to non-controlling interest shareholders; subtracted from [ConsolInc] in order to obtain [NetInc].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "netmargin",

"isfilter": "N",

"isprimarykey": "N",

"title": "Profit Margin",

"description": "[Metrics] Measures the ratio between a company's [NetIncCmn] and [Revenue].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "opex",

"isfilter": "N",

"isprimarykey": "N",

"title": "Operating Expenses",

"description": "[Income Statement] Operating expenses represents the total expenditure on [SGnA]; [RnD] and other operating expense items; it excludes [CoR].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "opinc",

"isfilter": "N",

"isprimarykey": "N",

"title": "Operating Income",

"description": "[Income Statement] Operating income is a measure of financial performance before the deduction of [IntExp]; [TaxExp] and other Non-Operating items. It is calculated as [GP] minus [OpEx].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "payoutratio",

"isfilter": "N",

"isprimarykey": "N",

"title": "Payout Ratio",

"description": "[Metrics] The percentage of earnings paid as dividends to common stockholders. Calculated by dividing [DPS] by [EPSUSD].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "pb",

"isfilter": "N",

"isprimarykey": "N",

"title": "Price to Book Value",

"description": "[Metrics] Measures the ratio between [MarketCap] and [EquityUSD].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "pe",

"isfilter": "N",

"isprimarykey": "N",

"title": "Price Earnings (Damodaran Method)",

"description": "[Metrics] Measures the ratio between [MarketCap] and [NetIncCmnUSD]",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "pe1",

"isfilter": "N",

"isprimarykey": "N",

"title": "Price to Earnings Ratio",

"description": "[Metrics] An alternative to [PE] representing the ratio between [Price] and [EPSUSD].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "ppnenet",

"isfilter": "N",

"isprimarykey": "N",

"title": "Property Plant & Equipment Net",

"description": "[Balance Sheet] A component of [Assets] representing the amount after accumulated depreciation; depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Includes Operating Right of Use Assets.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "prefdivis",

"isfilter": "N",

"isprimarykey": "N",

"title": "Preferred Dividends Income Statement Impact",

"description": "[Income Statement] Income statement item reflecting dividend payments to preferred stockholders. Subtracted from Net Income to Parent [NetInc] to obtain Net Income to Common Stockholders [NetIncCmn].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "price",

"isfilter": "N",

"isprimarykey": "N",

"title": "Share Price (Adjusted Close)",

"description": "[Entity] The price per common share adjusted for stock splits but not adjusted for dividends; used in the computation of [PE1]; [PS1]; [DivYield] and [SPS].",

"unittype": "USD/share"

},

{

"table": "fundamentals",

"indicator": "ps",

"isfilter": "N",

"isprimarykey": "N",

"title": "Price Sales (Damodaran Method)",

"description": "[Metrics] Measures the ratio between [MarketCap] and [RevenueUSD].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "ps1",

"isfilter": "N",

"isprimarykey": "N",

"title": "Price to Sales Ratio",

"description": "[Metrics] An alternative calculation method to [PS]; that measures the ratio between a company's [Price] and it's [SPS].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "receivables",

"isfilter": "N",

"isprimarykey": "N",

"title": "Trade and Non-Trade Receivables",

"description": "[Balance Sheet] A component of [Assets] representing trade and non-trade receivables.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "reportperiod",

"isfilter": "N",

"isprimarykey": "Y",

"title": "Report Period",

"description": "[Entity] The Report Period represents the end date of the fiscal period.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "fundamentals",

"indicator": "retearn",

"isfilter": "N",

"isprimarykey": "N",

"title": "Accumulated Retained Earnings (Deficit)",

"description": "[Balance Sheet] A component of [Equity] representing the cumulative amount of the entities undistributed earnings or deficit. May only be reported annually by certain companies; rather than quarterly.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "revenue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Revenues",

"description": "[Income Statement] Amount of Revenue recognized from goods sold; services rendered; insurance premiums; or other activities that constitute an earning process. Interest income for financial institutions is reported net of interest expense and provision for credit losses.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "revenueusd",

"isfilter": "N",

"isprimarykey": "N",

"title": "Revenues (USD)",

"description": "[Income Statement] [Revenue] in USD; converted by [FXUSD].",

"unittype": "USD"

},

{

"table": "fundamentals",

"indicator": "rnd",

"isfilter": "N",

"isprimarykey": "N",

"title": "Research and Development Expense",

"description": "[Income Statement] A component of [OpEx] representing the aggregate costs incurred in a planned search or critical investigation aimed at discovery of new knowledge with the hope that such knowledge will be useful in developing a new product or service.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "roa",

"isfilter": "N",

"isprimarykey": "N",

"title": "Return on Average Assets",

"description": "[Metrics] Return on assets measures how profitable a company is [NetIncCmn] relative to its total assets [AssetsAvg].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "roe",

"isfilter": "N",

"isprimarykey": "N",

"title": "Return on Average Equity",

"description": "[Metrics] Return on equity measures a corporation's profitability by calculating the amount of [NetIncCmn] returned as a percentage of [EquityAvg].",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "roic",

"isfilter": "N",

"isprimarykey": "N",

"title": "Return on Invested Capital",

"description": "[Metrics] Return on Invested Capital is ratio estimated by dividing [EBIT] by [InvCapAvg]. [InvCap] is calculated as: [Debt] plus [Assets] minus [Intangibles] minus [CashnEq] minus [LiabilitiesC]. Please note this calculation method is subject to change.",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "ros",

"isfilter": "N",

"isprimarykey": "N",

"title": "Return on Sales",

"description": "[Metrics] Return on Sales is a ratio to evaluate a company's operational efficiency; calculated by dividing [EBIT] by [Revenue]. ROS is often a component of DuPont ROE analysis.",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "sbcomp",

"isfilter": "N",

"isprimarykey": "N",

"title": "Share Based Compensation",

"description": "[Cash Flow Statement] A component of [NCFO] representing the total amount of noncash; equity-based employee remuneration. This may include the value of stock or unit options; amortization of restricted stock or units; and adjustment for officers' compensation. As noncash; this element is an add back when calculating net cash generated by operating activities using the indirect method.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "sgna",

"isfilter": "N",

"isprimarykey": "N",

"title": "Selling General and Administrative Expense",

"description": "[Income Statement] A component of [OpEx] representing the aggregate total costs related to selling a firm's product and services; as well as all other general and administrative expenses. Direct selling expenses (for example; credit; warranty; and advertising) are expenses that can be directly linked to the sale of specific products. Indirect selling expenses are expenses that cannot be directly linked to the sale of specific products; for example telephone expenses; Internet; and postal charges. General and administrative expenses include salaries of non-sales personnel; rent; utilities; communication; etc.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "sharefactor",

"isfilter": "N",

"isprimarykey": "N",

"title": "Share Factor",

"description": "[Entity] Share factor is a multiplicant in the calculation of [MarketCap] and is used to adjust for: American Depository Receipts (ADRs) that represent more or less than 1 underlying share; and; companies which have different earnings share for different share classes (eg Berkshire Hathaway - BRK.B).",

"unittype": "ratio"

},

{

"table": "fundamentals",

"indicator": "sharesbas",

"isfilter": "N",

"isprimarykey": "N",

"title": "Shares (Basic)",

"description": "[Entity] The number of shares or other units outstanding of the entity's capital or common stock or other ownership interests; as stated on the cover of related periodic report (10-K/10-Q); after adjustment for stock splits.",

"unittype": "units"

},

{

"table": "fundamentals",

"indicator": "shareswa",

"isfilter": "N",

"isprimarykey": "N",

"title": "Weighted Average Shares",

"description": "[Income Statement] The weighted average number of shares or units issued and outstanding that are used by the company to calculate [EPS]; determined based on the timing of issuance of shares or units in the period.",

"unittype": "units"

},

{

"table": "fundamentals",

"indicator": "shareswadil",

"isfilter": "N",

"isprimarykey": "N",

"title": "Weighted Average Shares Diluted",

"description": "[Income Statement] The weighted average number of shares or units issued and outstanding that are used by the company to calculate [EPSDil]; determined based on the timing of issuance of shares or units in the period.",

"unittype": "units"

},

{

"table": "fundamentals",

"indicator": "sps",

"isfilter": "N",

"isprimarykey": "N",

"title": "Sales per Share",

"description": "[Metrics] Sales per Share measures the ratio between [RevenueUSD] and [SharesWA] as adjusted by [ShareFactor].",

"unittype": "USD/share"

},

{

"table": "fundamentals",

"indicator": "tangibles",

"isfilter": "N",

"isprimarykey": "N",

"title": "Tangible Asset Value",

"description": "[Metrics] The value of tangibles assets calculated as the difference between [Assets] and [Intangibles].",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "taxassets",

"isfilter": "N",

"isprimarykey": "N",

"title": "Tax Assets",

"description": "[Balance Sheet] A component of [Assets] representing tax assets and receivables.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "taxexp",

"isfilter": "N",

"isprimarykey": "N",

"title": "Income Tax Expense",

"description": "[Income Statement] Amount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "taxliabilities",

"isfilter": "N",

"isprimarykey": "N",

"title": "Tax Liabilities",

"description": "[Balance Sheet] A component of [Liabilities] representing outstanding tax liabilities.",

"unittype": "currency"

},

{

"table": "fundamentals",

"indicator": "tbvps",

"isfilter": "N",

"isprimarykey": "N",

"title": "Tangible Assets Book Value per Share",

"description": "[Metrics] Measures the ratio between [Tangibles] and [SharesWA] as adjusted by [ShareFactor].",

"unittype": "currency/share"

},

{

"table": "fundamentals",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "[Entity] The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "fundamentals",

"indicator": "workingcapital",

"isfilter": "N",

"isprimarykey": "N",

"title": "Working Capital",

"description": "[Metrics] Working capital measures the difference between [AssetsC] and [LiabilitiesC].",

"unittype": "currency"

},

{

"table": "insiders",

"indicator": "dateexercisable",

"isfilter": "N",

"isprimarykey": "N",

"title": "Date Exercisable",

"description": "The date that an option is exercisable; where applicable and available.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "insiders",

"indicator": "directorindirect",

"isfilter": "N",

"isprimarykey": "N",

"title": "Direct or Indirect?",

"description": "Is the ownership held [D]irectly or [I]ndirectly?",

"unittype": "text"

},

{

"table": "insiders",

"indicator": "expirationdate",

"isfilter": "N",

"isprimarykey": "N",

"title": "Expiration Date",

"description": "The data at which an option expires; where applicable and available",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "insiders",

"indicator": "formtype",

"isfilter": "N",

"isprimarykey": "Y",

"title": "Form Type",

"description": "The type of SEC form . Available options are 3; 4 or 5 that the data are sourced from. Preprended by \"RESTATED\" in the event that the filing is subsequently restated.",

"unittype": "text"

},

{

"table": "sp500",

"indicator": "name",

"isfilter": "N",

"isprimarykey": "N",

"title": "Issuer Name",

"description": "The name of the issuer.",

"unittype": "text"

},

{

"table": "insiders",

"indicator": "isofficer",

"isfilter": "N",

"isprimarykey": "N",

"title": "Is Officer?",

"description": "Is the owner an officer of the company? [Y]es or [N]o.",

"unittype": "Y/N"

},

{

"table": "insiders",

"indicator": "issuername",

"isfilter": "N",

"isprimarykey": "N",

"title": "Issuer Name",

"description": "The name of the security issuer.",

"unittype": "text"

},

{

"table": "insiders",

"indicator": "istenpercentowner",

"isfilter": "N",

"isprimarykey": "N",

"title": "Is Ten Percent Owner?",

"description": "Does the owner hold ten percent or more of the class of security? [Y]es or [N]o.",

"unittype": "Y/N"

},

{

"table": "insiders",

"indicator": "natureofownership",

"isfilter": "N",

"isprimarykey": "N",

"title": "Nature of Ownership",

"description": "Where the ownership is held through an investment vehicle (trust; fund etc) the name of that investment vehicle is provided here.",

"unittype": "text"

},

{

"table": "insiders",

"indicator": "officertitle",

"isfilter": "N",

"isprimarykey": "N",

"title": "Officer Title",

"description": "Is the owner is an officer of the company the officer's title is provided.",

"unittype": "text"

},

{

"table": "insiders",

"indicator": "ownername",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Owner Name (Insider / Investor)",

"description": "The name of the owner.",

"unittype": "text"

},

{

"table": "insiders",

"indicator": "priceexercisable",

"isfilter": "N",

"isprimarykey": "N",

"title": "Price Exercisable",

"description": "The price at which an option is exercisable; where applicable and available.",

"unittype": "USD"

},

{

"table": "insiders",

"indicator": "rownum",

"isfilter": "N",

"isprimarykey": "Y",

"title": "Row Number",

"description": "The record number for a particular owner and filing date; which forms part of the key for the record.",

"unittype": "numeric"

},

{

"table": "insiders",

"indicator": "securityadcode",

"isfilter": "Y",

"isprimarykey": "N",

"title": "Security Acquired/Disposed Code",

"description": "[D] Derivative; No Transaction [DA] Derivative Acquisition [DD] Derivative Disposition [N] Non-Derivative; No Transaction [NA] Non-Derivative Acquisition [ND] Non-Derivative Disposition",

"unittype": "text"

},

{

"table": "insiders",

"indicator": "securitytitle",

"isfilter": "N",

"isprimarykey": "N",

"title": "Security Title",

"description": "The title of the class of security.",

"unittype": "text"

},

{

"table": "insiders",

"indicator": "sharesownedbeforetransaction",

"isfilter": "N",

"isprimarykey": "N",

"title": "Shares Owned Before Transaction",

"description": "The number of shares owned before the transaction.",

"unittype": "units"

},

{

"table": "insiders",

"indicator": "sharesownedfollowingtransaction",

"isfilter": "N",

"isprimarykey": "N",

"title": "Shares Owned Following Transaction",

"description": "The number of shares owned following the transaction.",

"unittype": "units"

},

{

"table": "insiders",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "insiders",

"indicator": "transactioncode",

"isfilter": "N",

"isprimarykey": "N",

"title": "Transaction Code",

"description": "The available [Transaction Codes] [Transaction Categories] Descriptions are as follows: [P] [General] Open market or private purchase of non-derivative or derivative security [S] [General] Open market or private sale of non-derivative or derivative security [V] [General] Transaction voluntarily reported earlier than required [A] [Rule 16b-3] Grant; award or other acquisition pursuant to Rule 16b-3(d) [D] [Rule 16b-3] Disposition to the issuer of issuer equity securities pursuant to Rule 16b-3(e) [F] [Rule 16b-3] Payment of exercise price or tax liability by delivering or withholding securities [I] [Rule 16b-3] Discretionary transaction in accordance with Rule 16b-3(f) [M] [Rule 16b-3] Exercise or conversion of derivative security exempted pursuant to Rule 16b-3 [C] [Derivative Codes] Conversion of derivative security [E] [Derivative Codes] Expiration of short derivative position [H] [Derivative Codes] Expiration (or cancellation) of long derivative position with value received [O] [Derivative Codes] Exercise of out-of-the-money derivative security [X] [Derivative Codes] Exercise of in-the-money or at-the-money derivative security [G] [Other Section 16(b) Exempt] Bona fide gift [L] [Other Section 16(b) Exempt] Small acquisition under Rule 16a-6 [W] [Other Section 16(b) Exempt] Acquisition or disposition by will or the laws of descent and distribution [Z] [Other Section 16(b) Exempt] Deposit into or withdrawal from voting trust [J] [Other] Other acquisition or disposition [K] [Other] Transaction in equity swap or instrument with similar characteristics [U] [Other] Disposition pursuant to a tender of shares in a change of control transaction",

"unittype": "text"

},

{

"table": "insiders",

"indicator": "transactiondate",

"isfilter": "N",

"isprimarykey": "N",

"title": "Transaction Date",

"description": "If there has been a transaction; the date of the transaction is provided here.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "insiders",

"indicator": "transactionpricepershare",

"isfilter": "N",

"isprimarykey": "N",

"title": "Transaction Price per Share",

"description": "The transaction price per share.",

"unittype": "USD/share"

},

{

"table": "insiders",

"indicator": "transactionshares",

"isfilter": "N",

"isprimarykey": "N",

"title": "Transaction Shares",

"description": "The number of shares transacted.",

"unittype": "units"

},

{

"table": "insiders",

"indicator": "transactionvalue",

"isfilter": "Y",

"isprimarykey": "N",

"title": "Transaction Value",

"description": "The value of the transaction.",

"unittype": "USD"

},

{

"table": "holdings",

"indicator": "investorname",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Institutional Investor Name",

"description": "The investor name is a unique identifier for the institutional investor.",

"unittype": "text"

},

{

"table": "holdings",

"indicator": "price",

"isfilter": "N",

"isprimarykey": "N",

"title": "Price",

"description": "The imputed price per unit of the current line item.",

"unittype": "USD/share"

},

{

"table": "holdings",

"indicator": "securitytype",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Security Type",

"description": "The available options to filter the SecurityType field are as follows: [SHR] Common Shares [FND] Fund Units [CLL] Call Options [PUT] Put Options [WNT] Warrants [DBT] Debt [PRF] Preferred Shares [UND] Unidentified Security Type",

"unittype": "text"

},

{

"table": "holdings",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "holdings",

"indicator": "units",

"isfilter": "N",

"isprimarykey": "N",

"title": "Units",

"description": "The number of units in the current line item.",

"unittype": "units"

},

{

"table": "holdings",

"indicator": "value",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value",

"description": "The total USD value of the current line item.",

"unittype": "USD"

},

{

"table": "holdings\_ticker",

"indicator": "cllholders",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Call holders (Institutional)",

"description": "The number of call holders.",

"unittype": "numeric"

},

{

"table": "holdings\_ticker",

"indicator": "cllunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Call Units held (institutional)",

"description": "The total number of call units held.",

"unittype": "units"

},

{

"table": "holdings\_ticker",

"indicator": "cllvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Call units held (institutional)",

"description": "The total value of call units held.",

"unittype": "USD"

},

{

"table": "holdings\_ticker",

"indicator": "dbtholders",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Debt holders (institutional)",

"description": "The number of debt holders.",

"unittype": "numeric"

},

{

"table": "holdings\_ticker",

"indicator": "dbtunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Debt Units held (institutional)",

"description": "The total number of debt units held.",

"unittype": "units"

},

{

"table": "holdings\_ticker",

"indicator": "dbtvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Debt units held (institutional)",

"description": "The total value of debt units held.",

"unittype": "USD"

},

{

"table": "holdings\_ticker",

"indicator": "fndholders",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Fund holders (institutional)",

"description": "The number of fund holders.",

"unittype": "numeric"

},

{

"table": "holdings\_ticker",

"indicator": "fndunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Fund units held (institutional)",

"description": "The total number of fund units held.",

"unittype": "units"

},

{

"table": "holdings\_ticker",

"indicator": "fndvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Fund units held (institutional)",

"description": "The total value of fund units held.",

"unittype": "USD"

},

{

"table": "holdings\_ticker",

"indicator": "name",

"isfilter": "N",

"isprimarykey": "N",

"title": "Issuer Name",

"description": "The name of the issuer.",

"unittype": "text"

},

{

"table": "holdings\_ticker",

"indicator": "percentoftotal",

"isfilter": "N",

"isprimarykey": "N",

"title": "Percentage of Total Institutional Holdings for the Quarter",

"description": "The percentage that the [TotalValue] of this line item constitutes of all institutional holdings for this quarter.",

"unittype": "%"

},

{

"table": "holdings\_ticker",

"indicator": "prfholders",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Preferred Stock holders (institutional)",

"description": "The number of preferred stock holders.",

"unittype": "numeric"

},

{

"table": "holdings\_ticker",

"indicator": "prfunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Preferred Stock units held (institutional)",

"description": "The total number of preferred stock units held.",

"unittype": "units"

},

{

"table": "holdings\_ticker",

"indicator": "prfvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Preferred Stock units held (institutional)",

"description": "The total value of preferred stock units held.",

"unittype": "USD"

},

{

"table": "holdings\_ticker",

"indicator": "putholders",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Put holders (institutional)",

"description": "The number of put holders.",

"unittype": "numeric"

},

{

"table": "holdings\_ticker",

"indicator": "putunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Put Units held (institutional)",

"description": "The total number of put units held.",

"unittype": "units"

},

{

"table": "holdings\_ticker",

"indicator": "putvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Put units held (institutional)",

"description": "The total value of put units held.",

"unittype": "USD"

},

{

"table": "holdings\_ticker",

"indicator": "shrholders",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Shareholders (Institutional)",

"description": "The number of shareholders.",

"unittype": "numeric"

},

{

"table": "holdings\_ticker",

"indicator": "shrunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Share Units held (institutional)",

"description": "The total number of share units held.",

"unittype": "units"

},

{

"table": "holdings\_ticker",

"indicator": "shrvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Share units held (institutional)",

"description": "The total value of share units held.",

"unittype": "USD"

},

{

"table": "holdings\_ticker",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "holdings\_ticker",

"indicator": "totalvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Total Value of all Security types held (institutional)",

"description": "The total value of all security types held.",

"unittype": "USD"

},

{

"table": "holdings\_ticker",

"indicator": "undholders",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Unidentified Security type holders (institutional)",

"description": "The number of unidentified security type holders.",

"unittype": "numeric"

},

{

"table": "holdings\_ticker",

"indicator": "undunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Unidentified Security type units held (institutional)",

"description": "The total number of unidentified security type units held.",

"unittype": "units"

},

{

"table": "holdings\_ticker",

"indicator": "undvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Unidentified Security type units held (institutional)",

"description": "The total value of unidentified security type units held.",

"unittype": "USD"

},

{

"table": "holdings\_ticker",

"indicator": "wntholders",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Warrant holders (institutional)",

"description": "The number of warrant holders.",

"unittype": "numeric"

},

{

"table": "holdings\_ticker",

"indicator": "wntunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Warrant Units held (institutional)",

"description": "The total number of warrant units held.",

"unittype": "units"

},

{

"table": "holdings\_ticker",

"indicator": "wntvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Warrant units held (institutional)",

"description": "The total value of warrant units held.",

"unittype": "USD"

},

{

"table": "holdings\_investor",

"indicator": "cllholdings",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Distinct Call holdings (institutional)",

"description": "The number of distinct call holdings held by the institution.",

"unittype": "numeric"

},

{

"table": "holdings\_investor",

"indicator": "cllunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Call Units held (institutional)",

"description": "The total number of call units held.",

"unittype": "units"

},

{

"table": "holdings\_investor",

"indicator": "cllvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Call units held (institutional)",

"description": "The total value of call units held.",

"unittype": "USD"

},

{

"table": "holdings\_investor",

"indicator": "dbtholdings",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Distinct Debt holdings (institutional)",

"description": "The number of distinct debt holdings held by the institution.",

"unittype": "numeric"

},

{

"table": "holdings\_investor",

"indicator": "dbtunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Debt Units held (institutional)",

"description": "The total number of debt units held.",

"unittype": "units"

},

{

"table": "holdings\_investor",

"indicator": "dbtvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Debt units held (institutional)",

"description": "The total value of debt units held.",

"unittype": "USD"

},

{

"table": "holdings\_investor",

"indicator": "fndholdings",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Distinct Fund holdings (institutional)",

"description": "The number of distinct fund holdings held by the institution.",

"unittype": "numeric"

},

{

"table": "holdings\_investor",

"indicator": "fndunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Fund units held (institutional)",

"description": "The total number of preferred stock units held.",

"unittype": "units"

},

{

"table": "holdings\_investor",

"indicator": "fndvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Fund units held (institutional)",

"description": "The total value of fund units held.",

"unittype": "USD"

},

{

"table": "holdings\_investor",

"indicator": "investorname",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Institutional Investor Name",

"description": "The investor name is a unique identifier for the institutional investor.",

"unittype": "text"

},

{

"table": "holdings\_investor",

"indicator": "percentoftotal",

"isfilter": "N",

"isprimarykey": "N",

"title": "Percentage of Total Institutional Holdings for the Quarter",

"description": "The percentage that the [TotalValue] of this line item constitutes of all institutional holdings for this quarter.",

"unittype": "%"

},

{

"table": "holdings\_investor",

"indicator": "prfholdings",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Distinct Preferred Stock holdings (institutional)",

"description": "The number of distinct preferred stock holdings held by the institution.",

"unittype": "numeric"

},

{

"table": "holdings\_investor",

"indicator": "prfunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Preferred Stock units held (institutional)",

"description": "The total number of preferred stock units held.",

"unittype": "units"

},

{

"table": "holdings\_investor",

"indicator": "prfvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Preferred Stock units held (institutional)",

"description": "The total value of preferred stock units held.",

"unittype": "USD"

},

{

"table": "holdings\_investor",

"indicator": "putholdings",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Distinct Put holdings (institutional)",

"description": "The number of distinct put holdings held by the institution.",

"unittype": "numeric"

},

{

"table": "holdings\_investor",

"indicator": "putunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Put Units held (institutional)",

"description": "The total number of put units held.",

"unittype": "units"

},

{

"table": "holdings\_investor",

"indicator": "putvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Put units held (institutional)",

"description": "The total value of put units held.",

"unittype": "USD"

},

{

"table": "holdings\_investor",

"indicator": "shrholdings",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Distinct Share holdings (institutional)",

"description": "The number of distinct share holdings held by the institution.",

"unittype": "numeric"

},

{

"table": "holdings\_investor",

"indicator": "shrunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Share Units held (institutional)",

"description": "The total number of share units held.",

"unittype": "units"

},

{

"table": "holdings\_investor",

"indicator": "shrvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Share units held (institutional)",

"description": "The total value of share units held.",

"unittype": "USD"

},

{

"table": "holdings\_investor",

"indicator": "totalvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Total Value of all Security types held (institutional)",

"description": "The total value of unidentified security type units held.",

"unittype": "USD"

},

{

"table": "holdings\_investor",

"indicator": "undholdings",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Distinct Unidentified Security type holdings (institutional)",

"description": "The number of distinct unidentified security types held by the institution.",

"unittype": "numeric"

},

{

"table": "holdings\_investor",

"indicator": "undunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Unidentified Security type units held (institutional)",

"description": "The total number of unidentified security type units held.",

"unittype": "units"

},

{

"table": "holdings\_investor",

"indicator": "undvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Unidentified Security type units held (institutional)",

"description": "The total value of unidentified security type units held.",

"unittype": "USD"

},

{

"table": "holdings\_investor",

"indicator": "wntholdings",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Distinct Warrant holdings (institutional)",

"description": "The number of distinct warrant holdings held by the institution.",

"unittype": "numeric"

},

{

"table": "holdings\_investor",

"indicator": "wntunits",

"isfilter": "N",

"isprimarykey": "N",

"title": "Number of Warrant Units held (institutional)",

"description": "The total number of warrant units held.",

"unittype": "units"

},

{

"table": "holdings\_investor",

"indicator": "wntvalue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Value of Warrant units held (institutional)",

"description": "The total value of warrant units held.",

"unittype": "USD"

},

{

"table": "sp500",

"indicator": "action",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Action",

"description": "The available actions in this database are: \"current\", \"added\", \"removed\" and \"historical\". ",

"unittype": "text"

},

{

"table": "sp500",

"indicator": "contraname",

"isfilter": "N",

"isprimarykey": "N",

"title": "Contra Issuer Name",

"description": "The name of the contra issuer.",

"unittype": "text"

},

{

"table": "sp500",

"indicator": "contraticker",

"isfilter": "Y",

"isprimarykey": "N",

"title": "Contra Ticker Symbol",

"description": "The contra ticker is the opposing ticker entry. It represents the ticker that has been removed where the action=\"added\", and the ticker that has been added where the action=\"removed\".",

"unittype": "text"

},

{

"table": "sp500",

"indicator": "date",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Date",

"description": "The action date.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "sp500",

"indicator": "note",

"isfilter": "N",

"isprimarykey": "N",

"title": "Notes",

"description": "Placeholder for notes and additional information regarding additions to and removals from the S&P500.",

"unittype": "text"

},

{

"table": "sp500",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "category",

"isfilter": "N",

"isprimarykey": "N",

"title": "Issuer Category",

"description": "The category of the issuer: \"Domestic\"; \"Canadian\" or \"ADR\".",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "companysite",

"isfilter": "N",

"isprimarykey": "N",

"title": "Company Website URL",

"description": "The URL pointing to the company website.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "currency",

"isfilter": "N",

"isprimarykey": "N",

"title": "Currency",

"description": "The company functional reporting currency for the SF1 Fundamentals table or the currency for EOD prices in SEP and SFP.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "cusips",

"isfilter": "N",

"isprimarykey": "N",

"title": "CUSIPs",

"description": "A security identifier. Space delimited in the event of multiple identifiers.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "exchange",

"isfilter": "N",

"isprimarykey": "N",

"title": "Stock Exchange",

"description": "The exchange on which the security trades. Examples are: \"NASDAQ\";\"NYSE\";\"NYSEARCA\";\"BATS\";\"OTC\" and \"NYSEMKT\" (previously the American Stock exchange).",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "famaindustry",

"isfilter": "N",

"isprimarykey": "N",

"title": "Fama Industry",

"description": "Industry classifications based on the SIC code and classifications by Fama and French here: http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/Data\_Library/det\_48\_ind\_port.html",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "famasector",

"isfilter": "N",

"isprimarykey": "N",

"title": "Fama Sector",

"description": "Not currently active - coming in a future update.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "firstadded",

"isfilter": "N",

"isprimarykey": "N",

"title": "First Added Date",

"description": "The date that the ticker was first added to coverage in the dataset.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "tickers",

"indicator": "firstpricedate",

"isfilter": "N",

"isprimarykey": "N",

"title": "First Price Date",

"description": "The date of the first price observation for a given ticker. Can be used as a proxy for IPO date. Minimum value of 1986-01-01 for IPO's that occurred prior to this date. Note: this does not necessarily represent the first price date available in our datasets since our end of day price history currently starts in December 1998.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "tickers",

"indicator": "firstquarter",

"isfilter": "N",

"isprimarykey": "N",

"title": "First Quarter",

"description": "The first financial quarter available in the dataset.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "tickers",

"indicator": "industry",

"isfilter": "N",

"isprimarykey": "N",

"title": "Industry",

"description": "An industry classification based on SIC codes in a format which approximates to GICS.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "isdelisted",

"isfilter": "N",

"isprimarykey": "N",

"title": "Is Delisted?",

"description": "Is the security delisted? [Y]es or [N]o.",

"unittype": "Y/N"

},

{

"table": "tickers",

"indicator": "lastpricedate",

"isfilter": "N",

"isprimarykey": "N",

"title": "Last Price Date",

"description": "The most recent price observation available.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "tickers",

"indicator": "lastquarter",

"isfilter": "N",

"isprimarykey": "N",

"title": "Last Quarter",

"description": "The last financial quarter available in the dataset.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "tickers",

"indicator": "lastupdated",

"isfilter": "Y",

"isprimarykey": "N",

"title": "Last Updated Date",

"description": "Last Updated represents the last date that this database entry was updated; which is useful to users when updating their local records.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "tickers",

"indicator": "location",

"isfilter": "N",

"isprimarykey": "N",

"title": "Location",

"description": "The company location as registered with the Securities and Exchange Commission.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "name",

"isfilter": "N",

"isprimarykey": "N",

"title": "Issuer Name",

"description": "The name of the security issuer.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "permaticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Permanent Ticker Symbol",

"description": "The permaticker is a unique and unchanging identifier for an issuer in the dataset which we as the data provider issue. This field is not included in other tables in order to maximise data scalability in those tables.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "relatedtickers",

"isfilter": "N",

"isprimarykey": "N",

"title": "Related Tickers",

"description": "Where related tickers have been identified this field is populated. Related tickers can include the prior ticker before a ticker change; and it tickers for alternative share classes.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "scalemarketcap",

"isfilter": "N",

"isprimarykey": "N",

"title": "Company Scale - Market Cap",

"description": "This field is experimental and subject to change. It categorises the company according to it's maximum observed market cap as follows: 1 - Nano <$50m; 2 - Micro < $300m; 3 - Small < $2bn; 4 - Mid <$10bn; 5 - Large < $200bn; 6 - Mega >= $200bn",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "scalerevenue",

"isfilter": "N",

"isprimarykey": "N",

"title": "Company Scale - Revenue",

"description": "This field is experimental and subject to change. It categorises the company according to it's maximum observed annual revenue as follows: 1 - Nano <$50m; 2 - Micro < $300m; 3 - Small < $2bn; 4 - Mid <$10bn; 5 - Large < $200bn; 6 - Mega >= $200bn",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "secfilings",

"isfilter": "N",

"isprimarykey": "N",

"title": "SEC Filings URL",

"description": "The URL pointing to the SEC filings which also contains the Central Index Key (CIK).",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "sector",

"isfilter": "N",

"isprimarykey": "N",

"title": "Sector",

"description": "A sector classification based on SIC codes in a format which approximates to GICS.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "siccode",

"isfilter": "N",

"isprimarykey": "N",

"title": "Standard Industrial Classification (SIC) Code",

"description": "The Standard Industrial Classification (SIC) is a system for classifying industries by a four-digit code; as sourced from SEC filings. More on the SIC system here: https://en.wikipedia.org/wiki/Standard\_Industrial\_Classification ",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "sicindustry",

"isfilter": "N",

"isprimarykey": "N",

"title": "SIC Industry",

"description": "The SIC industry is based on the SIC code and the industry tabled here: https://www.sec.gov/info/edgar/siccodes.htm",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "sicsector",

"isfilter": "N",

"isprimarykey": "N",

"title": "SIC Sector",

"description": "The SIC sector is based on the SIC code and the division tabled here: https://en.wikipedia.org/wiki/Standard\_Industrial\_Classification ",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "table",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Table",

"description": "The database table which the ticker is featured in. Examples are: \"SF1\" or \"SEP.",

"unittype": "text"

},

{

"table": "tickers",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "funds",

"indicator": "close",

"isfilter": "N",

"isprimarykey": "N",

"title": "Close Price - Split Adjusted",

"description": "The official exchange close price, adjusted for stock splits and stock dividends. Not adjusted for cash dividends or spinoffs.",

"unittype": "USD/share"

},

{

"table": "funds",

"indicator": "closeadj",

"isfilter": "N",

"isprimarykey": "N",

"title": "Close Price - Adjusted for Splits Dividends and Spinoffs",

"description": "The official exchange close price, adjusted for stock splits, stock dividends, cash dividends and spinoffs.",

"unittype": "USD/share"

},

{

"table": "funds",

"indicator": "closeunadj",

"isfilter": "N",

"isprimarykey": "N",

"title": "Close Price - Unadjusted",

"description": "The official exchange close price, not adjusted for stock splits, stock dividends, cash dividends or spinoffs.",

"unittype": "USD/share"

},

{

"table": "funds",

"indicator": "date",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Price Date",

"description": "The trade date of the price observations.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "funds",

"indicator": "high",

"isfilter": "N",

"isprimarykey": "N",

"title": "High Price - Split Adjusted",

"description": "The high share price, adjusted for stock splits and stock dividends. Not adjusted for cash dividends or spinoffs.",

"unittype": "USD/share"

},

{

"table": "funds",

"indicator": "lastupdated",

"isfilter": "Y",

"isprimarykey": "N",

"title": "Last Updated Date",

"description": "The last date at which this line item was updated, typically used to filter data to be retrieved for syncing to local records.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "funds",

"indicator": "low",

"isfilter": "N",

"isprimarykey": "N",

"title": "Low Price - Split Adjusted",

"description": "The low share price, adjusted for stock splits and stock dividends. Not adjusted for cash dividends or spinoffs.",

"unittype": "USD/share"

},

{

"table": "funds",

"indicator": "open",

"isfilter": "N",

"isprimarykey": "N",

"title": "Open Price - Split Adjusted",

"description": "The official exchange opening price, adjusted for stock splits and stock dividends. Not adjusted for cash dividends or spinoffs.",

"unittype": "USD/share"

},

{

"table": "funds",

"indicator": "ticker",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Ticker Symbol",

"description": "The ticker is a unique identifier for a security in the database. Where a company is delisted and the ticker subsequently recycled for use by a different company; we utilise that ticker for the currently active company and append a number to the ticker of the delisted company. The ACTIONS table provides a record of historical ticker changes.",

"unittype": "text"

},

{

"table": "funds",

"indicator": "volume",

"isfilter": "N",

"isprimarykey": "N",

"title": "Volume - Split Adjusted",

"description": "The traded volume across all exchanges, adjusted for stock splits and stock dividends. Not adjusted for cash dividends or spinoffs. Includes opening and closing cross volume if applicable.",

"unittype": "numeric"

},

{

"table": "fundamentals",

"indicator": "date",

"isfilter": "N",

"isprimarykey": "Y",

"title": "Date Key",

"description": "[Entity] The Date Key represents the SEC filing date for AR dimensions (ARQ;ART;ARY); and the [REPORTPERIOD] for MR dimensions (MRQ;MRT;MRY). In addition; this is the observation date used for [Price] based data such as [MarketCap]; [Price] and [PE].",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "insiders",

"indicator": "date",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Filing Date",

"description": "The date the form was filed with the SEC.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "holdings",

"indicator": "date",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Calendar Date",

"description": "The calendar date field represents the last day of the calendar quarter.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "holdings\_ticker",

"indicator": "date",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Calendar Date",

"description": "The calendar date field represents the last day of the calendar quarter.",

"unittype": "date (YYYY-MM-DD)"

},

{

"table": "holdings\_investor",

"indicator": "date",

"isfilter": "Y",

"isprimarykey": "Y",

"title": "Calendar Date",

"description": "The calendar date field represents the last day of the calendar quarter.",

"unittype": "date (YYYY-MM-DD)"

}

]