

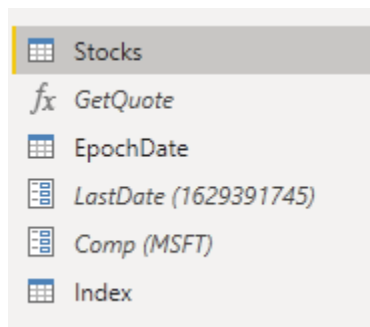
*Data from Yahoo  
Finance to Power BI*

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# How to get Data From Yahoo Finance to Power BI in 5 easy steps

I will build 1 function, three tables, and 2 parameters in Power BI.

Below is the structure in the transform table with all you need. So let's get started and I will explain the steps along the way



## 1 - Go to Yahoo Finance

### Apple Inc. (AAPL)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

★ In watchlist

**149.71** +1.52 (+1.03%) **149.70** -0.01 (-0.01%)

At close: August 23 4:00PM EDT

Pre-Market: 07:01AM EDT

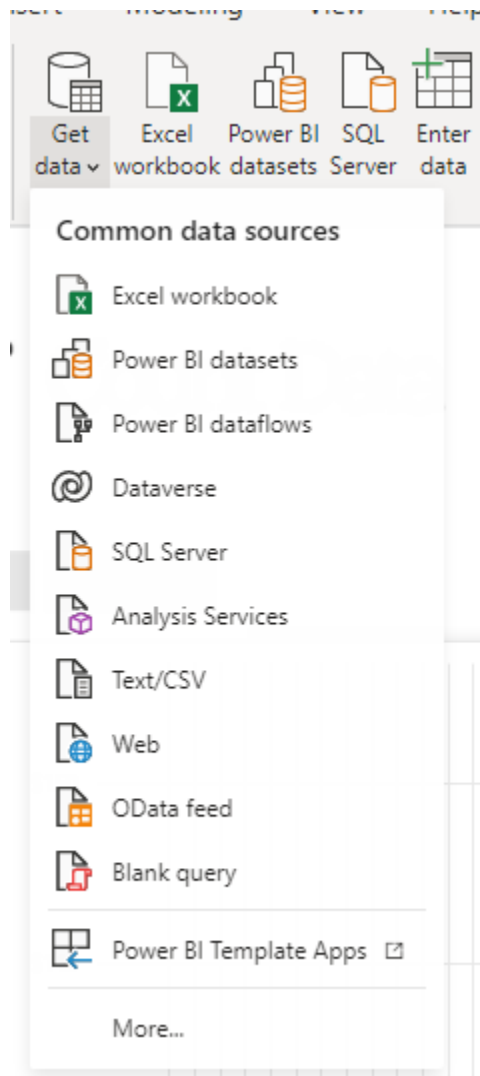
Summary Chart Conversations Statistics Historical Data Profile Financials Analysis Options Holders Sustainability

Previous Close	148.19	Market Cap	2.475T
Open	148.31	Beta (5Y Monthly)	1.20
Bid	0.00 x 800	PE Ratio (TTM)	29.31
Ask	0.00 x 1300	EPS (TTM)	5.11
Day's Range	147.89 - 150.19	Earnings Date	Oct 27, 2021 - Nov 01, 2021
52 Week Range	103.10 - 151.68	Forward Dividend & Yield	0.88 (0.59%)
Volume	60,131,810	Ex-Dividend Date	Aug 06, 2021
Avg. Volume	77,689,961	1y Target Est	165.87



- Pick a random stock and hit Enter (ie.: AAPL)
- Go to Historical Data and pick the range of historical price you want (ie. 1Y)

- Decide the Frequency (ie. Daily)
- Hit Apply
- In Download - right-click and copy the link address
- In Power BI go to Get Data and click Web and paste the link from Yahoo Finance



- Power BI will take you to the page below

https://query1.finance.yahoo.com/v7/finance/download/AAPL?period1=1596931...

File Origin: 65001: Unicode (UTF-8) | Delimiter: Comma | Data Type Detection: Based on first 200 rows

Date	Open	High	Low	Close	Adj Close	Volume
8/10/2020	112.599998	113.775002	110	112.727501	112.007095	212403600
8/11/2020	111.970001	112.482498	109.107498	109.375	108.67601	187902400
8/12/2020	110.497498	113.275002	110.297501	113.010002	112.287788	165598000
8/13/2020	114.43	116.042503	113.927498	115.010002	114.275002	210082000
8/14/2020	114.830002	115	113.044998	114.907501	114.173164	165565200
8/17/2020	116.0625	116.087502	113.962502	114.607498	113.875069	119561600
8/18/2020	114.352501	116	114.0075	115.5625	114.823975	105633600
8/19/2020	115.982498	117.162498	115.610001	115.707497	114.968048	145538000
8/20/2020	115.75	118.392502	115.732498	118.275002	117.519142	126907200
8/21/2020	119.262497	124.8675	119.25	124.370003	123.575188	338054800
8/24/2020	128.697495	128.785004	123.9375	125.857498	125.053177	345937600
8/25/2020	124.697502	125.18	123.052498	124.824997	124.027283	211495600
8/26/2020	126.18	126.9925	125.082497	126.522499	125.713928	163022400
8/27/2020	127.142502	127.485001	123.832497	125.010002	124.211098	155552400
8/28/2020	126.012497	126.442497	124.577499	124.807503	124.009895	187630000
8/31/2020	127.580002	131	126	129.039993	128.215347	225702700
9/1/2020	132.759995	134.800003	130.529999	134.179993	133.322495	151948100
9/2/2020	137.589996	137.979996	127	131.399994	130.560257	200119000
9/3/2020	126.910004	128.839996	120.5	120.879997	120.107483	257599600
9/4/2020	120.07	123.699997	110.889999	120.959999	120.186981	332607200

*The data in the preview has been truncated due to size limits.*

Load Transform Data Cancel

- Click Transform Data and go to the advanced editor

## 2 - Make your query dynamically

You will need to change the time and date to allow the function to become variable and get the time and date any time

AAPL?period1=1546300800&period2=1628640000&interval=1d&events=history... Display Options ?

(StockQuote as text) as table =>

```
let
    Source = Csv.Document(Web.Contents("https://query1.finance.yahoo.com/v7/finance/download/" & StockQuote & "?period1=1546300800&period2=1628640000&interval=1d&events=history"), [Delimiter=",", Columns=7, Encoding=1252, QuoteStyle=QuoteStyle.None]),
    #"Promoted Headers" = Table.PromoteHeaders(Source, [PromoteAllScalars=true]),
    #"Changed Type" = Table.TransformColumnTypes(#"Promoted Headers",{{"Date", type date}, {"Open", type number}, {"High", type number}, {"Low", type number}, {"Close", type number}, {"Adj Close", type number}, {"Volume", Int64.Type}})
in
    #"Changed Type"
```

GetQuote

Display Options ?

```
let
    Source = (LastDate as text, Comp as text) => let
        Source = Csv.Document(Web.Contents("https://query1.finance.yahoo.com/v7/finance/download/" & Comp & "?period1=1022112000&period2=" & LastDate & "&interval=1d&events=history"), [Delimiter=",", Columns=7, Encoding=1252, QuoteStyle=QuoteStyle.None]),
        #"Promoted Headers" = Table.PromoteHeaders(Source, [PromoteAllScalars=true]),
        #"Changed Type" = Table.TransformColumnTypes(#"Promoted Headers",{{"Date", type date}, {"Open", type number}, {"High", type number}, {"Low", type number}, {"Close", type number}, {"Adj Close", type number}, {"Volume", Int64.Type}})
    in
        #"Changed Type"
in
    Source
```

- The blue part of the code below should be added to your query

Let

Source = (LastDate as text, Comp as text) => let

Source =

Csv.Document(Web.Contents("https://query1.finance.yahoo.com/v7/finance/download/" & Comp & "?period1=1022112000&period2=" & LastDate & "&interval=1d&events=history"), [Delimiter=",", Columns=7, Encoding=1252, QuoteStyle=QuoteStyle.None]),

#"Promoted Headers" = Table.PromoteHeaders(Source, [PromoteAllScalars=true]),

#"Changed Type" = Table.TransformColumnTypes(#"Promoted Headers",{{"Date", type date}, {"Open", type number}, {"High", type number}, {"Low", type number}, {"Close", type number}, {"Adj Close", type number}, {"Volume", Int64.Type}})

in

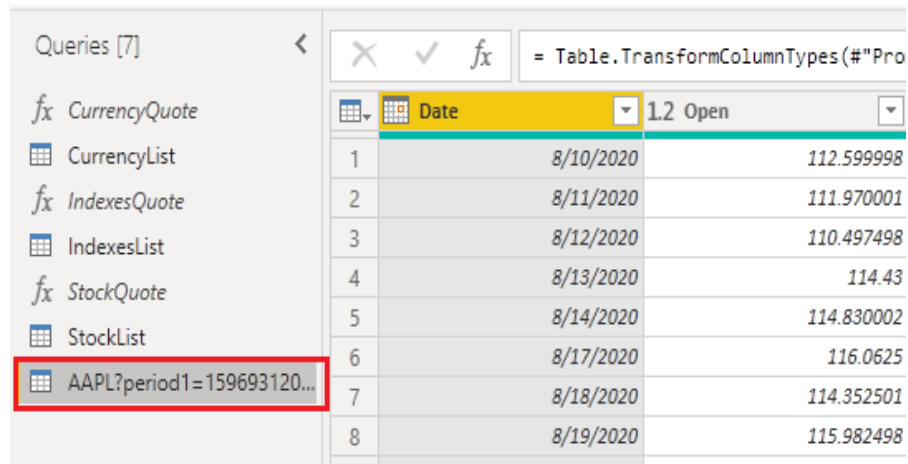
#"Changed Type"

in

Source

Once it is done, your function is ready to get data

- Change the name of the table. You can use "Stock" as name



Queries [7]

- CurrencyQuote
- CurrencyList
- IndexesQuote
- IndexesList
- StockQuote
- StockList
- AAPL?period1=159693120...**

fx = Table.TransformColumnTypes("#Pro

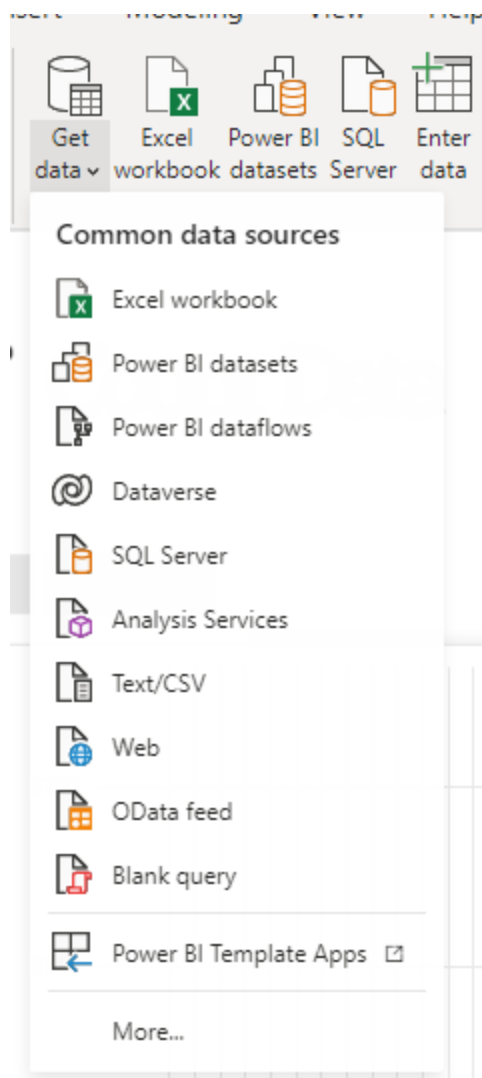
	Date	1.2 Open
1	8/10/2020	112.599998
2	8/11/2020	111.970001
3	8/12/2020	110.497498
4	8/13/2020	114.43
5	8/14/2020	114.830002
6	8/17/2020	116.0625
7	8/18/2020	114.352501
8	8/19/2020	115.982498

### 3 - Epoch Table

Now we just need to create the Epoch Table that will translate the time into a user-friendly format

In Power BI go to Get Data and click Web and paste the link below

<https://www.epochconverter.com/>



- Click Add table using examples

## Navigator

The screenshot shows the Power BI Navigator interface. On the left, there is a search bar and a 'Display Options' dropdown. Below this, a folder icon represents the source 'https://www.epochconverter.com/ [8]'. A list of tables is displayed, each with a checkbox and a table icon:

- ☐ Convert from epoch to human-readable d...
- ☐ Convert from human-readable date to ep...
- ☐ Document
- ☐ How to get the current epoch time in ...
- ☐ Table 0
- ☐ Table 1
- ☐ Table 2
- ☐ Table 3

On the right, the 'Table View' tab is selected, showing a large empty area with the text 'No items selected for preview'. At the bottom, there are three buttons: 'Add Table Using Examples', 'Load', 'Transform Data', and 'Cancel'.

- Starting to write the epoch time and Power BI will show it. Click on the time and hit OK. Now you have your EpochTime Table



## Add Table Using Examples



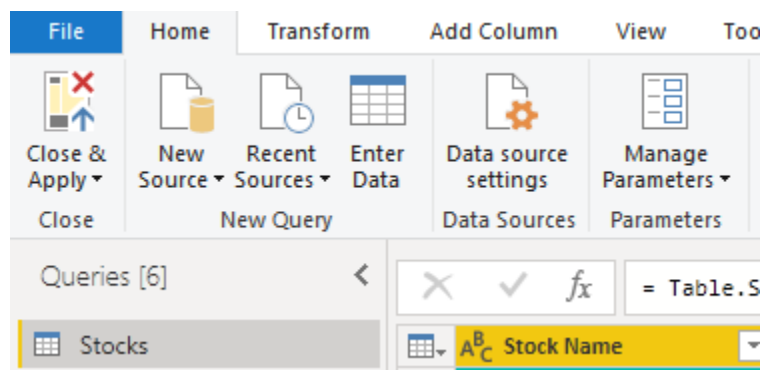
	Column1	+	
1	16		
2	A <sup>B</sup> <sub>C</sub> 1629805048		
3	🌐 <a href="https://googleads.g.doubleclick.net/pagead/ads?client=ca-pub-877...=%7C%7C%7C&amp;abl=NS&amp;fu=32768&amp;bc=31&amp;ifi=4&amp;uci=a14&amp;fsb=1&amp;dtd=27;">https://googleads.g.doubleclick.net/pagead/ads?client=ca-pub-877...=%7C%7C%7C&amp;abl=NS&amp;fu=32768&amp;bc=31&amp;ifi=4&amp;uci=a14&amp;fsb=1&amp;dtd=27</a>		
4	🌐 <a href="https://googleads.g.doubleclick.net/pagead/ads?client=ca-pub-877...b=1&amp;xpc=muKu7pcYBw&amp;p=https%3A//www.epochconverter.com&amp;dtd=243">https://googleads.g.doubleclick.net/pagead/ads?client=ca-pub-877...b=1&amp;xpc=muKu7pcYBw&amp;p=https%3A//www.epochconverter.com&amp;dtd=243</a>		
5	🌐 <a href="https://googleads.g.doubleclick.net/pagead/ads?client=ca-pub-877...b=1&amp;xpc=4RsmwrD9UL&amp;p=https%3A//www.epochconverter.com&amp;dtd=266">https://googleads.g.doubleclick.net/pagead/ads?client=ca-pub-877...b=1&amp;xpc=4RsmwrD9UL&amp;p=https%3A//www.epochconverter.com&amp;dtd=266</a>		
6	A <sup>B</sup> <sub>C</sub> PostgreSQLSELECT extract(epoch FROM date('2000-01-01 12:34'));Wi...terval: SELECT EXTRACT(EPOCH FROM INTERVAL '5 days 3 hours');		
7	A <sup>B</sup> <sub>C</sub> SELECT extract(epoch FROM date('2000-01-01 12:34'));With timesta...terval: SELECT EXTRACT(EPOCH FROM INTERVAL '5 days 3 hours');		
8	A <sup>B</sup> <sub>C</sub> SELECT EXTRACT(EPOCH FROM TIMESTAMP WITH TIME ZONE '2018-02-16 20:38:40-08');		
9	A <sup>B</sup> <sub>C</sub> The current Unix epoch time is 1629805048		
	A <sup>B</sup> <sub>C</sub> The Unix epoch (or Unix time or POSIX time or Unix timestamp) is...nds (13-digit) and microseconds (16-digit) to readable dates.		

- Change the type of the Column to Text (Abc)
- Rename the column to Epoch Time
- Rename the table to epoch Date

### 4 - Crate the Parameters

Now let's build the two parameters you need, Time and Date

- Click Manage Parameters → Manage Parameters



- Click New and use my two parameters to copy exactly as they are below



## Manage Parameters

New

A<sup>B</sup>C

LastDate

A<sup>B</sup>C

Comp

✕

Name

Comp

Description

☒ Required

Type

Text

Suggested Values

Any value

Current Value

MSFT

OK

Cancel

## Manage Parameters



New

AB C LastDate

AB C Comp

Name

LastDate

Description

☒ Required

Type

Text

Suggested Values

Any value

Current Value


1629391745

OK

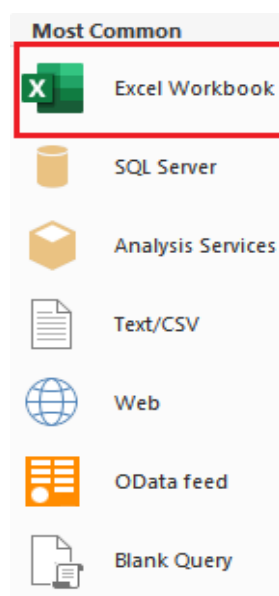
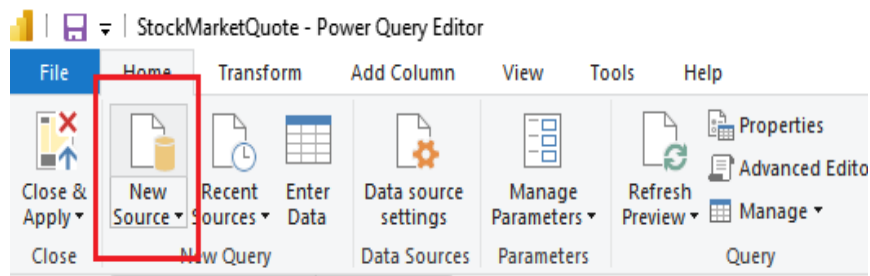
Cancel

### 5 - Stock Table(s)

Now you need to build a spreadsheet with the Stocks tickers (add new columns if you want). You can create as many lists/spreadsheets as you want, such as indexes, crypto, etc. If so, follow the same steps below.

<div>  <span>StockList</span> <span>☆</span> <span>📁</span> <span>☁</span> </div> <div> File Edit View Insert Format Data Tools Add-on </div>				
<div> <span>↶</span> <span>↷</span> <span>🖨</span> <span>📄</span> <span>100%</span> <span>\$</span> <span>%</span> <span>.0</span> <span>.00</span> <span>123</span> <span>Default (</span> </div>				
17	<div> <span>fx</span> </div>			
	A	B	C	D
1	Stock Name	Quote Name	Quote Description	
2	MSFT	Microsoft	Microsoft Corporation	
3	AAPL	Apple	Apple Inc.	
4	GOOG	Google	Alphabet Inc	
5	TSLA	Tesla	Tesla, Inc.	
6	NFLX	Netflix	Netflix, Inc.	
7	AMD	Amd	Advanced Micro Devices, Inc.	
8	NVDA	Nvda	NVIDIA Corporation	
9	AMZN	Amazon	Amazon.com, Inc.	
10				

- Go to Power BI. Got to New Source and click Excel Workbook



- Click Sheet1 and OK

## Navigator

Display Options ▾

StockList.xlsx [1]

☒ Sheet1

## Sheet1

Column1	Column2	Column3
Stock Name	Quote Name	Quote Description
MSFT	Microsoft	Microsoft Corporation
AAPL	Apple	Apple Inc.
GOOG	Google	Alphabet Inc
TSLA	Tesla	Tesla, Inc.
NFLX	Netflix	Netflix, Inc.
AMD	Amd	Advanced Micro Devices, Inc.
NVDA	Nvda	NVIDIA Corporation
AMZN	Amazon	Amazon.com, Inc.

Load

Transform Data

Cancel

- Change the name of the Sheet1
- Click "Use First Row as Headers"
- Click Add Column
- Click on Invoke Custom Function

## Invoke Custom Function

Invoke a custom function defined in this file for each row.

New column name

Pull

Function query

GetQuote

LastDate



LastDate

Comp



Stock Name

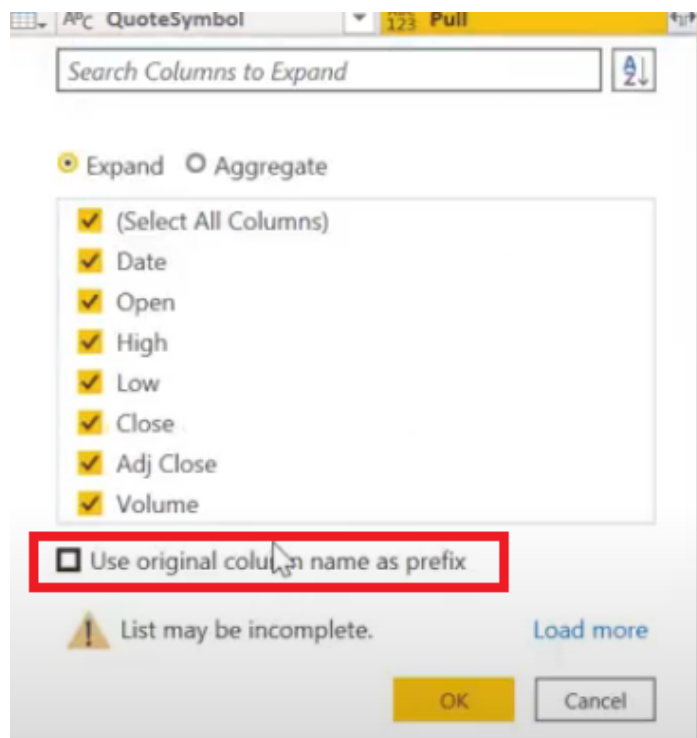
- Click inExpand the Pull

The screenshot shows a data table interface. At the top, there is a formula bar with the text `= Table.AddColumn("#Changed Type1", "P`. Below the formula bar, there are two columns. The first column is labeled "QuoteSymbol" and has a dropdown arrow. The second column is labeled "Pull" and is highlighted in yellow. A red box is drawn around the expand/collapse icon in the "Pull" column header. Below the column headers, there is a table with two columns. The first column has a status indicator (Valid, Error, Empty) and a percentage (100%, 0%, 0%). The second column has a status indicator (Valid, Error, Empty) and a percentage (100%, 0%, 0%). Below the table, there is a summary row with the text "5 distinct, 5 unique".

QuoteSymbol	Pull
Valid 100%	Valid 100%
Error 0%	Error 0%
Empty 0%	Empty 0%

5 distinct, 5 unique

- Untick the "Use original column name as a prefix



- Now you have to do the format changes
- Date → change to Data
- Open, High, Low, Close, and Adj Close → Fixed decimal number
- Volume → Whole number

Symbol	Date	\$ Open	\$ High	\$ Low
100% Valid 0% Error 0% Empty	100% Valid 0% Error 0% Empty	100% Valid 0% Error 0% Empty	100% Valid 0% Error 0% Empty	100% Valid 0% Error 0% Empty
0 unique	15 distinct, 0 unique			

- To include a new table to get prices from yahoo finance. You should repeat the steps. have included the table index in the Power BI

Now you are good to go and have your data from Yahoo Finance.