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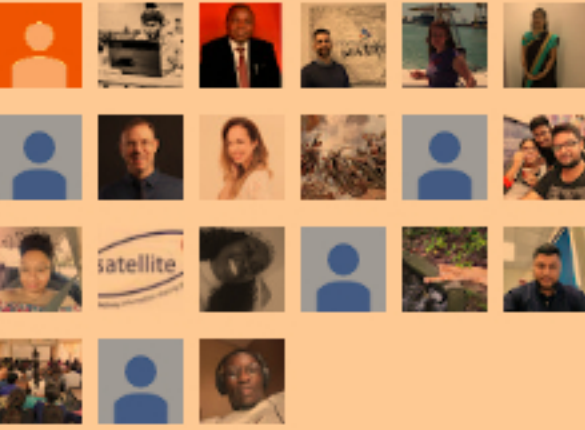
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## Preppin' Data

A weekly challenge to help you learn to prepare data and use Tableau Prep

### 2019: Week 11

April 24, 2019

This week is all about stocks but you have Ian Baldwin to thank for this challenge. He posed us the challenge of taking a JSON output from a shares website and turning it in to a file for use within Tableau.

Tableau Prep does not have a connector to allow us to download the data from the site (yet??), or parse JSON (yet??), but we can take a very raw file and manipulate the data file to build out a table that we would commonly use in Tableau Desktop.

#### Requirements

JSON_Name	JSON_ValueString
chart.result.0.meta.currency	USD
chart.result.0.meta.symbol	DATA
chart.result.0.meta.exchangeName	NYQ
chart.result.0.meta.instrumentType	EQUITY
chart.result.0.meta.firstTradeDate	1368777600
chart.result.0.meta.gmtoffset	-14400
chart.result.0.meta.timezone	EDT
chart.result.0.meta.exchangeTimezoneName	America/New_York
chart.result.0.meta.chartPreviousClose	54.09
chart.result.0.meta.priceHint	2
chart.result.0.meta.currentTradingPeriod.pre.timezone	EDT
chart.result.0.meta.currentTradingPeriod.pre.start	1556006400
chart.result.0.meta.currentTradingPeriod.pre.end	1556026200
chart.result.0.meta.currentTradingPeriod.pre.gmtoffset	-14400

- Input data from the .csv
- Break up the JSON\_Name field
- Exclude 'meta' and ' ' records in the same column to just leave 'indicators' and 'timestamp'
- For the column containing our metrics, if this is blank, take the value from the 'indicators' / 'timestamp' column. Rename this field as 'Data Type'
- There is a column that will contain just numbers (up to 502). If this column is blank then take the value from the other column that contains similar values up to 502. Rename this field to 'Row'
- Rename 'JSON\_ValueString' to 'Value'
- Only leave fields in your data set that have been renamed as per the instruction above.
- Pivot fields to form final table structure
- Turn Unix Epoch time in to a real date

\*You will likely need Prep Builder v2019.1 as I used Rows to Columns pivot but you lot are innovative so who knows?\*

#### Output

Date	volume	high	low	adjclose	close	open	Row
10/01/2018 14:30	648600	72.84	70.15	72.69	72.69	70.39	181
03/06/2018 13:30	3449700	109.17	99.31	102.84	102.84	107.44	222
29/03/2018 13:30	682300	81.62	78.32	80.82	80.82	79.37	235
21/07/2017 13:30	506900	64.27	63.59	63.77	63.77	64.27	62
19/05/2017 13:30	1130300	60.89	59.47	60.34	60.34	60	19
16/11/2018 14:30	852200	119.57	114.37	116.04	116.04	116.44	397
22/02/2018 14:30	490900	83.1	81.64	81.94	81.94	82.42	210
10/05/2017 13:30	717800	60.75	59.42	60.48	60.48	59.92	12
20/04/2018 13:30	694500	84.91	83.65	83.82	83.82	84.02	250

- 8 columns
- 503 rows of data (504 including headers)
- No null cells

For comparison, [here is our output file](#). Don't to forget to fill in our [participation tracker](#)!

[Date Calculations](#) [Pivot](#) [Split](#) [String Calculations](#)

#### Popular posts from this blog

##### 2023: Week 1 The Data Source Bank

January 04, 2023

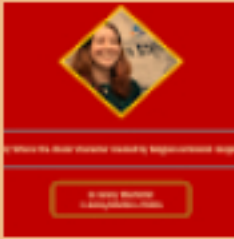
Code	Value	Comments
24175	1440	
101	1930	
2438	1020	
284	1907	
4407	6176	
3488	4630	
480	2101	
120	1807	
1430	8100	
170	2808	

Created by: Carl Allchin Welcome to a New Year of Preppin' Data. These are weekly exercises to help you learn and develop data preparation skills. We publish the challenges on a Wednesday and share a solution the following Tuesday. You can take the challenges whenever you want and we love to see yo ...

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##### 2021: Week 22 - Answer Smash

June 02, 2021



Challenge By: Jenny Martin Recently, my family and I have become quite invested in the TV quiz show Richard Osman's House of Games . The final round is always a round called Answer Smash. In this round you have a picture and question and you have to "smash" the name of the picture with the answ ...

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##### How to...Handle Free Text

January 24, 2020

Series	Q	Q2	Q3
Called about policy #400...			
Called about their policy #4...			
Called complaining about...			
Called regarding policy #400...			

Free isn't always a good thing. In data, Free text is the example to state when proving that statements correct. However, lots of benefit can be gained from understanding data that has been entered in Free Text fields. What do we mean by Free Text? Free Text is the string based data that comes from allow ...

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