Oil Lab – Tutorial

Introduction

The BP.L dataset has the share price and volume (number of shares) traded of BP, an oil company on every week day in a 5 year period from 2014 to 2019. The data comes from the Yahoo finance website [here](#).

The dataset looks like this

Date	Open	High	Low	Close	Adj Close	Volume
30/01/2014	477.899994	482.600006	476.649994	477.899994	349.835999	21378663
31/01/2014	478	480.100006	470.149994	478	349.90918	22350013
03/02/2014	475.899994	479.054993	472.75	473.600006	346.688232	20847353
04/02/2014	472.5	476.350006	463.799988	473.799988	346.834656	37356343

There are several versions of the price; Open (the price at the start of the day), High, Low, Close and Adjusted Close. We'll use the Close

Specific Learning Objectives

- Consider the best visual for a time-series dataset
- Build a combined line and bar chart
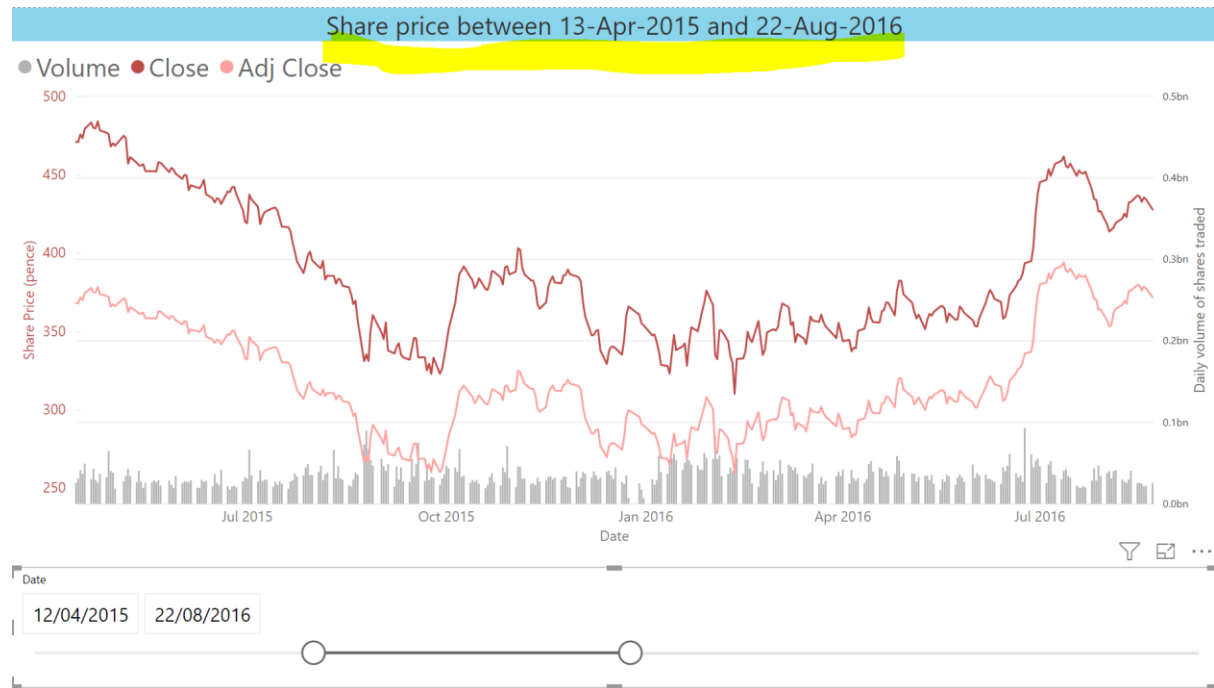- Explore the formatting options to emphasise the salient points to the audience

Datasets

- BP.L.csv
- (optional) RDSB.L

Instructions

1. Launch Power BI Desktop and import the BP.L CSV file
2. Build a visual to show the close price of BP over the last 5 years. What can we say about BP's fortunes?
3. The data has two versions of the closing price; Close and Adjusted Close. Add the Adjusted Close to the chart. Does this give any clue as to the difference?
4. Add the volume column to your chart. This is of secondary importance to the viewer so tailor your colours and axes to take that into account

Optional – advanced

Change the title to state the range of selected dates.

Allow the user to select the various types of price from a card in the new filter pane

BP's historic rival has been Shell and a similar dataset for Shell (RDSB.csv) is also provided. Is there a story about their relative fortunes over the last 5 years.

Investors often like to look at 3 month or 1 year moving average of a share price. Can you calculate this and show these lines?