**Stock Analysis Report**

**1. Basic Insights**

* The dataset contains **15877 Stock Details** with **7 columns**.
* The key attributes are **Date, Opening Price of Stock, Highest Price of Stock, Lowest Price of Stock, Closing Price of Stock, Adj Closing Price and Volume of Stock**.
* Dates belongs to the Year From: **1962 to 2025**.
* The data helps investors to **analyse stock Performance, trading volume, and price trends** to make informed trading decisions.

**2. Dataset Explanation**

The Excel File Contains Following Columns:

 **Date**: The date of the trading session.

 **Open**: The stock's price at the beginning of the trading session.

 **High**: The highest price reached during the session.

 **Low**: The lowest price reached during the session.

 **Close**: The stock's price at the end of the trading session.

 **Adjusted Close (Adj Close)**: The closing price adjusted for corporate actions.

 **Volume**: The total number of shares traded during the session.

**3. Query Features**

* Converting Decimal Column Values from **General to Number** Format Column like Open, High, Low, Close, Adj Close to convert number from decimal to two Decimal Point.
* Using Power Query Adding **Year, Month, Quarter, Week of Year** Column from Date Column. To Perform Analyses by Yearly, Monthly, Quarterly, Week of Year.

**To make dashboard I Use Pivot Charts & Tables.**

**4. Pivot Tables**

**Table 1:** Taking first pivot table as last 4 years stock data as **average of opening & closing price** by years.

**Table 2:** Taking second pivot table as last 4 years stock data as **Maximum of Highest & Minimum of Lowest Price** by years.

**Table 3:** Taking third pivot table as last 4 years stock data as **Sum of Volume** by years.

**Table 4:** Taking fourth pivot table as last 4 Months stock data as **average of opening & closing price** by Months.

**Table 5:** Taking fifth pivot table as last 4 Months stock data as **Maximum of Highest & Minimum of Lowest Price** by Months.

**Table 6:** Taking sixth pivot table as last 4 Months stock data as **Sum of Volume** by Months.

**Table 7:** Taking seventh pivot table as four Quarter stock data as **average of opening & closing price** by Quarters.

**Table 8:** Taking eighth pivot table as four Quarter stock data as **Maximum of Highest & Minimum of Lowest** **Price** by Quarters.

**Table 9:** Taking nineth pivot table as four Quarter stock data as **Sum of Volume** by Quarters.

**Table 10:** Taking tenth pivot table as last 4 week of years stock data as **average of opening & closing price** by Week of Year.

**Table 11:** Taking eleventh pivot table as last 4 week of years stock data as **Maximum of Highest & Minimum of Lowest Price** by Week of Year.

**Table 12:** Taking twelweth pivot table as last 4 week of years stock data as **Sum of Volume** by Week of Year.

**Dashboard:**

**5. Pivot Charts**

**Chart 1:** In this Clustered Column Chart I took Average of Opening and Closing Price Value Field by applying slicer to Years. In this chart we can analyse how much of Average in opening and closing price by particular year. I took average of years from 1962 to 1965. By observing chart, we can say that the average of year 1965’s opening price is high (i-e 0.405025448) & the average of year 1962’s opening price is low (i-e 0.225788747). Also, by observing chart we can say that the average of year 1965’s closing price is high (i-e 0.4052205) & the year average of year 1962’s closing price is low (i-e 0.225523925).

**Chart 2:** In this Line with Markers Chart, I took Maximum of Highest and Minimum of Lowest Price Value Field by applying slicer to Years. In this chart we can analyse how much of Maximum of Highest and Minimum of Lowest price by particular year. I took Maximum of Highest Price and Minimum of Lowest Price years from 1962 to 1965. By observing chart, we can say that the Maximum of Highest price in the year 1965 (i-e 0.472656012) & the Minimum of Lowest price in the year 1962 (i-e 0.182291999).

**Chart 3:** In this 3-D Pie Chart, I took Sum of Volume Value Field by applying slicer to Years. In this chart we can analyse how much of Sum of Volume in particular year. I took Sum of Volume years from 1962 to 1965. By observing chart, we can say that the highest sum of volume in the year 1962 (i-e 345715200) & the Lowest sum of volume in the year 1965 (i-e 192864000).

**Chart 4:** In this Clustered Bar Chart I took Average of Opening and Closing Price Value Field by applying slicer to Months. In this chart we can analyse how much of Average in opening and closing price by particular Month. I took average of Months from 1 to 4 (i-e Jan-April). By observing chart, we can say that the average of Month 1st’s opening price is high (i-e 18.00747099) & the average of Month 3rd’s opening price is low (i-e 17.61839076). Also, by observing chart we can say that the average of Month 1st’s closing price is high (i-e 18.00015595) & the average of Month 3rd’s closing price is low (i-e 17.63324453).

**Chart 5:** In this Line with Markers Chart, I took Maximum of Highest and Minimum of Lowest Price Value Field by applying slicer to Months. In this chart we can analyse how much of Maximum of Highest and Minimum of Lowest price by particular Month. I took Maximum of Highest Price and Minimum of Lowest Price Months from 1 to 4 (i-e Jan-April). By observing chart, we can say that the Maximum of Highest price in the Month 4th’s (i-e 67.19999695) & the Minimum of Lowest price in the Month 1st’s (i-e 0.220052004).

**Chart 6:** In this Doughnut Pie Chart, I took Sum of Volume Value Field by applying slicer to Months. In this chart we can analyse how much of Sum of Volume in particular Month. I took Sum of Volume Months from 1 to 4 (i-e Jan-April). By observing chart, we can say that the highest sum of volume in the Month 3rd’s (i-e 14247272000) & the Lowest sum of volume in the Month 2nd’s (i-e 11657775000).

**Chart 7:** In this 3-D Column Chart I took Average of Opening and Closing Price Value Field by applying slicer to Quarters. In this chart we can analyse how much of Average in opening and closing price by particular Quarter. I took average of Quarters from 1 to 4.By observing chart, we can say that the average of Quarter 4th’s opening price is high (i-e 18.62861069) & the average of Quarter 1st’s opening price is low (i-e 17.80149459). Also, by observing chart we can say that the average of Quarter 4th’s closing price is high (i-e 18.63862914) & the average of Quarter 1st’s closing price is low (i-e 17.80470674).

**Chart 8:** In this Stacked Line with Markers Chart, I took Maximum of Highest and Minimum of Lowest Price Value Field by applying slicer to Quarters. In this chart we can analyse how much of Maximum of Highest and Minimum of Lowest price by particular Quarter. I took Maximum of Highest Price and Minimum of Lowest Price Quarters from 1 to 4. By observing chart, we can say that the Maximum of Highest price in the Quarter 3rd’s (i-e 73.52999878) & the Minimum of Lowest price in the Quarter 2nd’s (i-e 0.182291999).

**Chart 9:** In this 3-D Pie Chart, I took Sum of Volume Value Field by applying slicer to Quarters. In this chart we can analyse how much of Sum of Volume in particular Quarter. I took Sum of Volume Quarter from 1 to 4. By observing chart, we can say that the highest sum of volume in the Quarter 1st’s (i-e 38656528600) & the Lowest sum of volume in the Quarter 3rd’s (i-e 36055270000).

**Chart 10:** In this Clustered Column Chart I took Average of Opening and Closing Price Value Field by applying slicer to Week of Year. In this chart we can analyse how much of Average in opening and closing price by particular Week of Year. I took average of Week of Year from 1 to 4.By observing chart, we can say that the average of Week of year 1st’s opening price is high (i-e 18.79930122) & the average of Week of Year 4th’s opening price is low (i-e 17.29091593). Also, by observing chart we can say that the average of Week of Year 1st’s closing price is high (i-e 18.79321617) & the average of Week of Year 4th’s closing price is low (i-e 17.28677604).

**Chart 11:** In this Stacked Line with Markers Chart, I took Maximum of Highest and Minimum of Lowest Price Value Field by applying slicer to Week of Year. In this chart we can analyse how much of Maximum of Highest and Minimum of Lowest price by particular Week of Year. I took Maximum of Highest Price and Minimum of Lowest Price Week of Year from 1 to 4. By observing chart, we can say that the Maximum of Highest price in the Week of Year 2nd’s (i-e 63.72000122) & the Minimum of Lowest price in the Week of Year 1st’s (i-e 0.220052004).

**Chart 12:** In this Doughnut Pie Chart, I took Sum of Volume Value Field by applying slicer to Week of Year. In this chart we can analyse how much of Sum of Volume in particular Week of Year. I took Sum of Volume Week of Year from 1 to 4. By observing chart, we can say that the highest sum of volume in the Week of Year 2nd’s (i-e 3119764800) & the Lowest sum of volume in the Week of Year 1st’s (i-e 1085041700).