**Analysis Report**

**Basic Insights**

* Change the date to short date as date is not visible properly by changing its format to short date.
* Total No. Of Rows: 15878
* Total No. Of Columns: 7
* Total No. Of Features: 7
* Missing values in dataset: 0 (Uses COUNT and COUNTA to find missing values of each column).
* Duplicates: There are no duplicate values in the dataset. Select all dataset and use remove duplicates.
* Statistical Summary:
* First select all dataset then in data tab go to data analysis select descriptive statistics select range and checked options like labels in the first row, summary statistics, confidence interval for mean, Kth largest, Kth smallest then press OK.
* It gives statistical values for our dataset which helps to find out the distribution of our data or how our data spread out.
* Date column indicates that our data contain is nearly symmetric with a skewness of **-0.00057**, meaning dates are fairly evenly distributed. The kurtosis (-1.19637073764565) suggests a relatively flat distribution (lighter tails than a normal distribution).
* Open column indicates that our data contain (-0.00057263 ) Close to zero, suggesting a near-normal distribution. the value of Mean is greater than Median. Kurtosis (-0.62). The skewness value indicates that our dataset is good for analysis.
* High column indicates that our data contain Positive or Right skewed data because the value of mean is Grater than median. Kurtosis value shows that it contain less outliers because it’s value is less than 3. The skewness value indicates that our dataset is good for analysis.
* Low column indicates that our data contain Positive or Right skewed data because the value of mean is greater than median. Kurtosis value Flat kurtosis (-0.61).
* Close column indicates that our data contain Positive or Right skewed data because the value of mean is greater than median. Kurtosis value shows that it contain more outliers because it’s value is Greater than 3. The skewness value indicates that our dataset is good for analysis.
* Adj Close column indicates that our data contain Positive or right skewed data because the value of mean is Gretar than median. Kurtosis (1.29) value shows that it contain less outliers because it’s value is Greater than 3.
* Volume column indicates that our data contain Positive or Right skewed data because the value of mean is greater than median. Kurtosis (12.19)value shows that it contains less outliers because it’s value is Greater than 3. The skewness value indicates that our dataset is good for analysis.
* Transformation:
* From the date column we extract Day name ,Week Of month, month name, year, quarter are used in time-wise analysis of Stock data. From this we can analyse how price increase and decrease day by day.
* Also change Date into the Short date it is easy to visualize data by day.
* In Open ,High ,Low ,Close, adj Close decrease decimals(select dataset than go power query and select transform select rounding and than take 2 decimal place and than click ok.
* We change the Open ,High ,Low ,Close, adj Close column number format into currency format.
* We can also change date column Gernal format into Short date format.
* And than I can created statistical analysis (Select Data than data tab select Data Analysis and select descriptive analysis than click important qurries and thank click ok.)
* Pivot tables
* **Stock Prices on Days of the Week:**

The stock price remains relatively stable from Monday to Friday.

* **Volume Distribution by Quarter:**

A pie chart shows the sum of volume per quarter .Some quarters have significantly larger volume contributions than others.

* **Top 10 Years Based on High & Low Stock Prices:**

Recent years (2023-2024) have higher high and low stock prices .Earlier years had relatively lower stock price ranges.

* **Top 10 Years Based on Open & Close Stock Prices:**

The most recent years (2023, 2022, etc.) have higher open and close prices .The trend suggests an increase in stock prices over time.

* **Stock Price Based on Weeks:**

The stock price fluctuates on a weekly basis. There are peaks and dips indicating volatility.

* **Average Volume by Weeks & Months:**

Pie and bar charts show the average trading volume. Certain weeks/months contribute more volume than others.

* Insights and Patterns:
* Top 10 years base on Open & Close Stock price is -2015,2016,2017,2018,2019,2020,2021,2022,2023,2024.
* Top 10 years base on High & Low Stock priceis-2015,2016,2017,2018,2019,2020,2021,2022,2023,2024.
* Which month is high average of volume-March.
* Which month is low average of volume -August.
* Find how much stock sold in 1 quarter -38656528600 stocks sold in 1 Quarter.
* Which year open stock is high-2024 year is open stock is high.
* Find which day is
* **Recommendations**
* This analysis of stock market is perform in beginner level don’t invest using this analysis this analysis is only for education purpose.
* Invest in stock market after confirming the news and documents and read the documents carefully before investing.