

Introduction To Data management

(Project Semester August-December 2020)

Stock Market Analysis

Submitted by

Navin chandra

Registration No - 12001138

Programme and Section – KM007

Course Code – INT217

Under the Guidance of

Sandeep Kaur : 23614

Faculty of CSE/IT

Lovely School of Computer science and engineering

Lovely Professional University, Phagwara



CERTIFICATE

This is to certify that Navin chandra bearing Registration no. 12001138 has completed INT217 Introduction to Data management project titled, **“Stock Market Analysis”** under my guidance and supervision. To the best of my knowledge, the present work is the result of his/her original development, effort and study.

Signature and Name of the Supervisor

School of Computer science and engineering

Lovely Professional University, Phagwara

Date: 11/12/2021

DECLARATION

I, Navin Chandra, student of Data Science under CSE/IT Discipline at, Lovely Professional University, Punjab, hereby declare that all the information furnished in this project report is based on my own intensive work and is genuine.

Date: 11/12/2021

Signature:

Registration No. 12001138

Navin Chandra

ACKNOWLEDGEMENT

I would like to express my gratitude towards my University for providing me the golden opportunity to do this wonderful Project on Stock Market Analysis , which also helped me in doing a lot of homework and learning. As a result, I came to know about so many new things. So, I am really thank full to them.

Moreover I would like to thank my Instructor who explained in such a way that, whenever I got stuck in some problem related to my course. I am really thankfull to have such a good Course.

Also,I would like to mention the support and consideration of my parents who have always been there in my life to make me choose right thing and oppose the wrong. Without them I could never had learned and became a person who I am now.

I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. I would like to extend my sincere thanks to all of them.

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Introduction

This project is on Stock market analysis project. Data of this project is taken from the website called Kaglge.com we have downloaded the Nifty-50 data of 50 companies and have chosen the top 5 companies to do analysis .

In this project we will analyse the stocks of few top companies from Nifty-50 using excel, pivot table, conditional formatting and using some formula and will also create the yearly stock chart of the companies using excel chart.

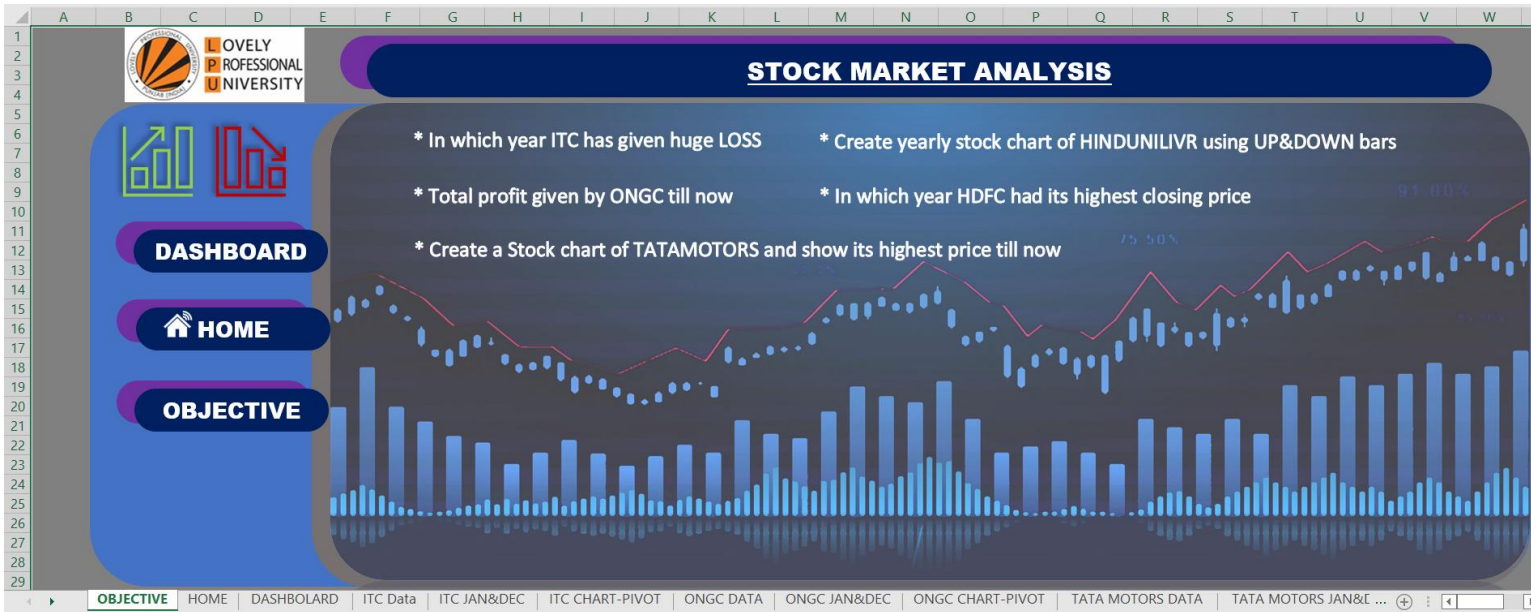
In stock market analysis project we can analyse the price, profit, up's and down's of the market that how the companies is preforming is in previous few years we, have taken data of companies from year 2000 to 2021 and and do analysis.

We have also created the stock charts for the companies to see the performance of the companies on charts

We have created a Dashboard for this project and also added links on the dashboard page through which we can navigate to any other page or objectives and also created a home page and objective page on objective there is information regarding the analysis we have done also by the links we can navigate to the analysis page.

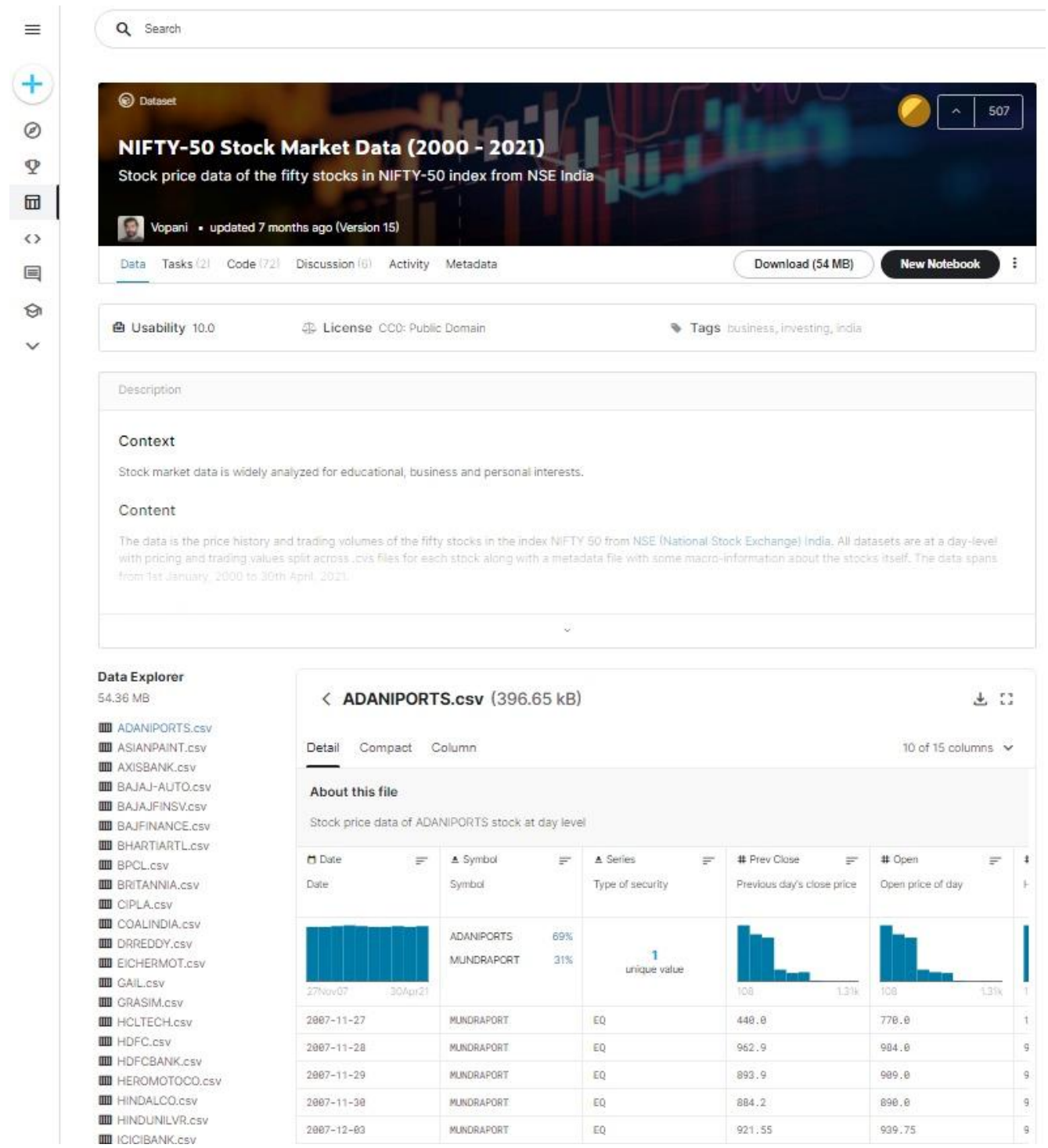
Objectives/Scope of the Analysis

1. In which year ITC had given huge LOSS
2. Total profit given by ONGC Till now
3. Create a Stock chart of TATAMOTORS and show its highest price till Now
4. create Yearly Stock Chart of HINDUNILVR using UP&DOWN bars
5. In which year HDFC had its highest closing price



Source of dataset

[NIFTY-50 Stock Market Data \(2000 - 2021\) | Kaggle](#)



Analysis on dataset 1

Introduction

The dataset 1 is of ITC company and we will analyse the data of ITC and try to find out in which year ITC had given huge loss

General Description

- We will analyse the data and see in which year ITC had given huge loss with the help of pivot table
- We will also create a stock candle chart with the help of excel chart.

Specific Requirements, functions and formulas

To analyse the data of ITC we need create a pivot table and the need to select the date.

Then to create a stock candle chart we need data in particular format like – Row label, open price, High price, Low price, Close price we will select the data in pivot table accordingly

We can easily get high and low price with the help of pivot table but to get open and low price we will apply a date filter like for open we need data of very first day of the year whether it is 1jan, 2jan, 3jan, 4jan, 5jan

and similar to this for close price we need data for very last day of the year whether it is 28dec, 29dec, 30dec, 31dec

then to get lowest price of the year we will use conditional formatting

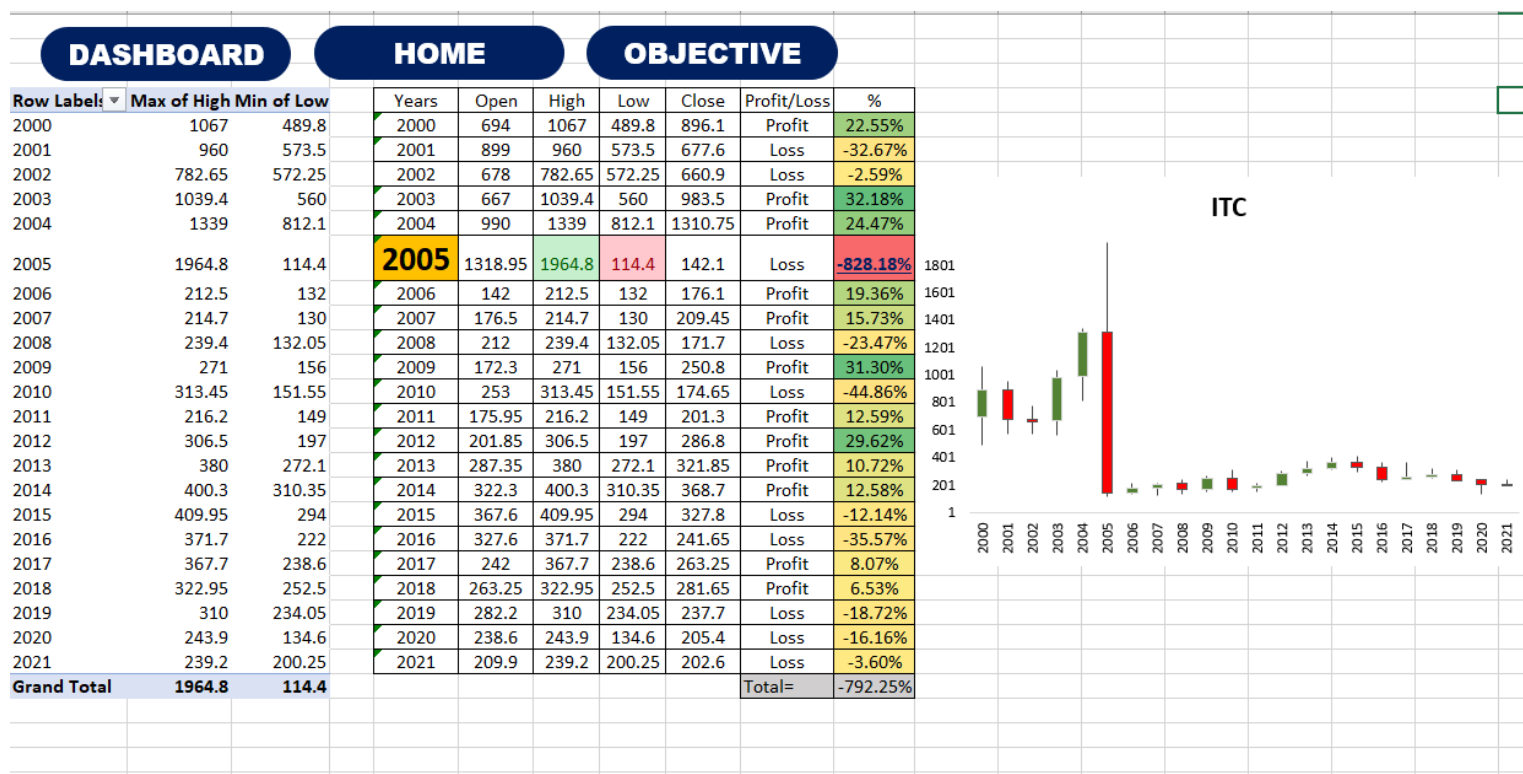
I have also added the profit loss and percentage of by using the formula

Formula for profit/loss is **=IF(open price<close price,"Profit","Loss")**

Formula for percentage is **=(close price-open price)/close price**

Analysis results

In figure I have shown the lowest return in year 2005 with the help of conditional formatting and also created the stock chart with the help of table.



Analysis on dataset 2

Introduction

The dataset 2 is of ONGC company and we will analyse the data of ONGC and try to find out total profit given by ONGC till now.

General Description

- We will analyse the data and see the total pprofit given by ongc with the help of pivot table and using fformula
- We will also crate a stock candle chart with the help of excel chart.

Specific Requirements, functions and formulas

To analyse the data of ONGC we need create a pivot table and the need to select the date.

Then to create a stock candle chart we need data in particular format like – Row lable, open price, High price, Low price, Close price we will select the data in pivot table accordingly

We can easily get high and low price with the help of pivot table but to get open and low price we will apply a date filter like for open we need data of very first day of the year weather it is 1jan, 2jan, 3jan, 4jan, 5jan

and similar to this for close price we need data for very last day of the year weather it is 28dec, 29dec, 30dec, 31dec

then to get total profit we will use forurmula

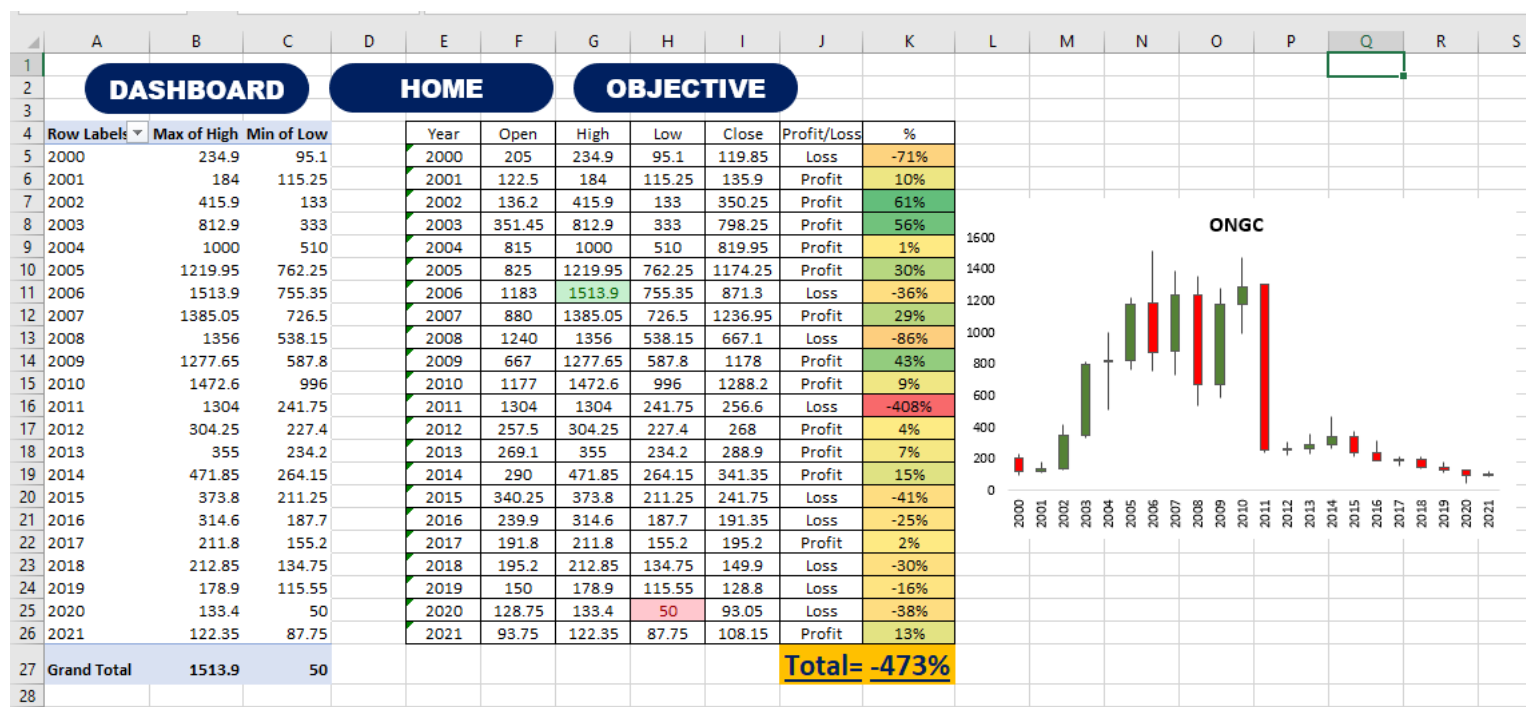
Formula for percentage is **$=\text{(close price-open price)}/\text{close price}$**

For we will calculate percentage of each year and then will add it to get total profit

Formula for profit/loss is **$=\text{IF}(\text{open price}<\text{close price},\text{"Profit"},\text{"Loss"})$**

Analysis results

In figure I have shown the total profit given by ONGC and also created the stock chart with the help of table.



Analysis on dataset 3

Introduction

The dataset 3 is of TATAMOTORS company and we will analyse the data of TATAMOTORS and try to find out its highest price till now and also create a stock chart.

General Description

- We will analyse the data and see its highest price till now with the help of pivot table and conditional formatting
- We will also create a stock candle chart with the help of excel chart.

Specific Requirements, functions and formulas

To analyse the data of TATAMOTORS we need create a pivot table and the need to select the date.

Then to create a stock candle chart we need data in particular format like – Row lable, open price, High price, Low price, Close price we will select the data in pivot table accordingly

We can easily get high and low price with the help of pivot table but to get open and low price we will apply a date filter like for open we need data of very first day of the year weather it is 1jan, 2jan, 3jan, 4jan, 5jan

and similar to this for close price we need data for very last day of the year weather it is 28dec, 29dec, 30dec, 31dec

then to get highest price till now we will use conditional formatting

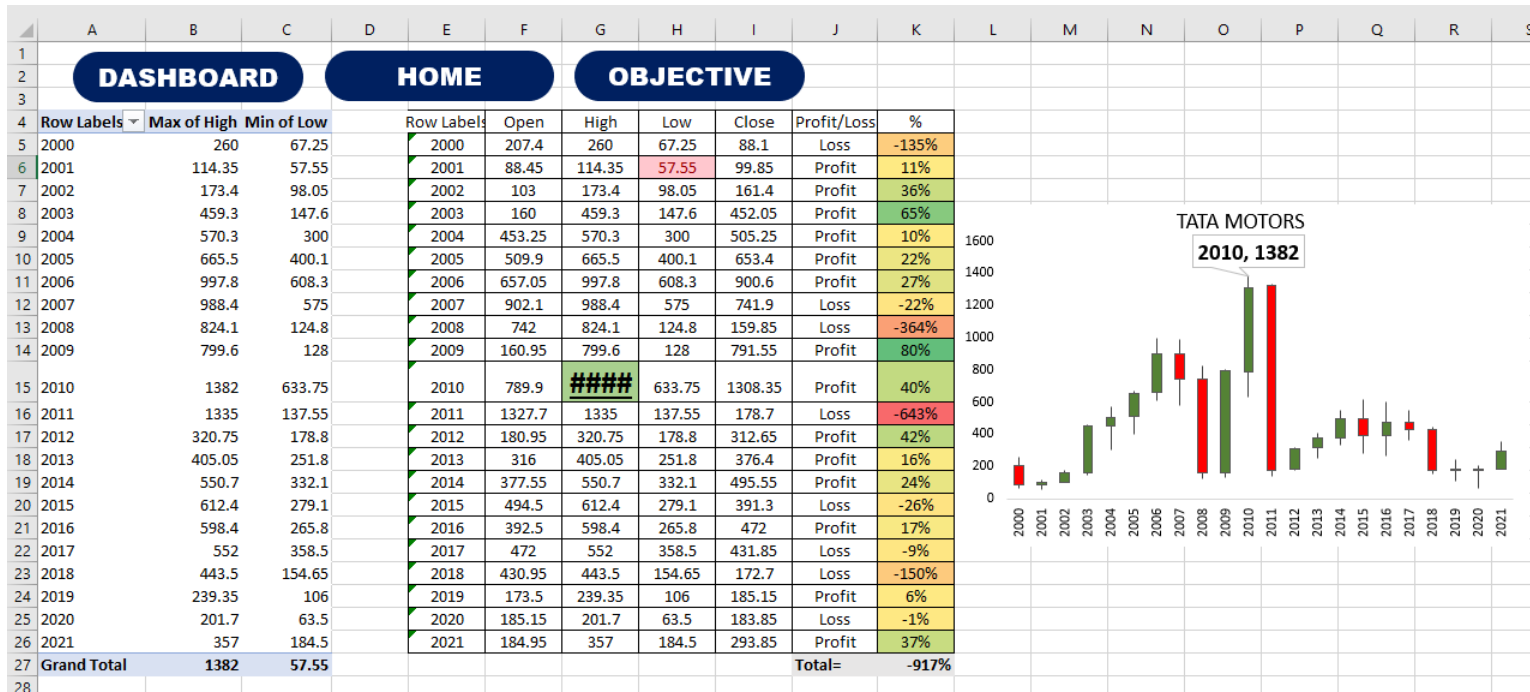
I have also added the profit loss and percentage of by using the formula

Formula for profit/loss is **=IF(open price<close price,"Profit","Loss")**

Formula for percentage is **=(close price-open price)/close price**

Analysis results

In figure I have shown the highest price till now with the help of conditional formatting and also created the stock chart with the help of table and excel chart



Analysis on dataset 4

Introduction

The dataset 4 is of HINDUNILVR company and we will analyse the data of HINDUNILVR and will create a yearly stock chart using up&down bars

General Description

- We will analyse the data and create a stock chart using up&down bars with the help of pivot table

Specific Requirements, functions and formulas

To analyse the data of HINDUNILVR we need create a pivot table and the need to select the date.

Then to create a stock candle chart we need data in particular format like – Row lable, open price, High price, Low price, Close price we will select the data in pivot table accordingly

We can easily get high and low price with the help of pivot table but to get open and low price we will apply a date filter like for open we need data of very first day of the year weather it is 1jan, 2jan, 3jan, 4jan, 5jan

and similar to this for close price we need data for very last day of the year weather it is 28dec, 29dec, 30dec, 31dec

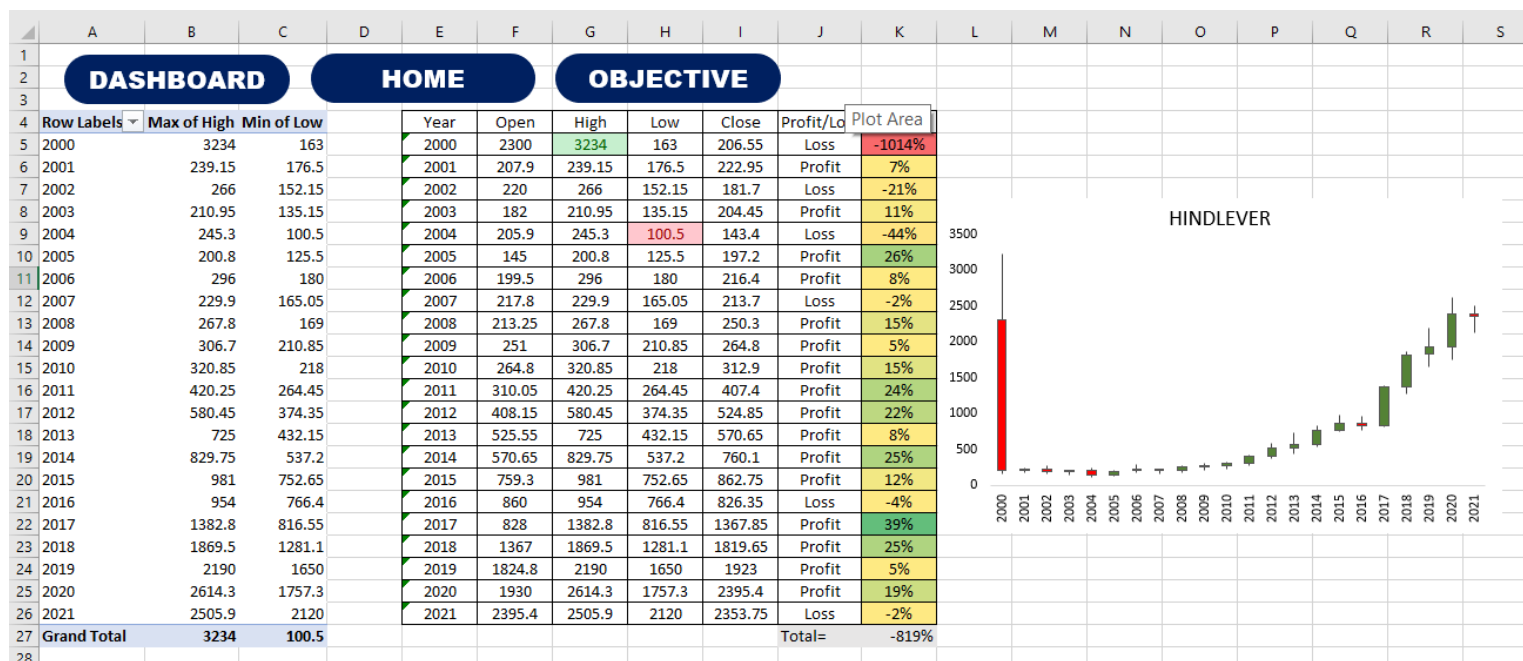
I have also added the profit loss and percentage of by using the formula

Formula for profit/loss is **=IF(open price<close price,"Profit","Loss")**

Formula for percentage is **=(close price-open price)/close price**

Analysis results

In figure I have shown the stock chart with up& down bars with the help of table and excel chart .



Analysis on dataset 5

Introduction

The dataset 5 is of HDFC company and we will analyse the data of HDFC and try to find out in which year HDFC had its highest closing price.

General Description

- We will analyse the data and see in which year HDFC had its highest closing price with the help of pivot table
- We will also create a stock candle chart with the help of excel chart.

Specific Requirements, functions and formulas

To analyse the data of HDFC we need create a pivot table and the need to select the date.

Then to create a stock candle chart we need data in particular format like – Row label, open price, High price, Low price, Close price we will select the data in pivot table accordingly

We can easily get high and low price with the help of pivot table but to get open and low price we will apply a date filter like for open we need data of very first day of the year whether it is 1jan, 2jan, 3jan, 4jan, 5jan

and similar to this for close price we need data for very last day of the year whether it is 28dec, 29dec, 30dec, 31dec

Then to get highest closing price we have used conditional formatting

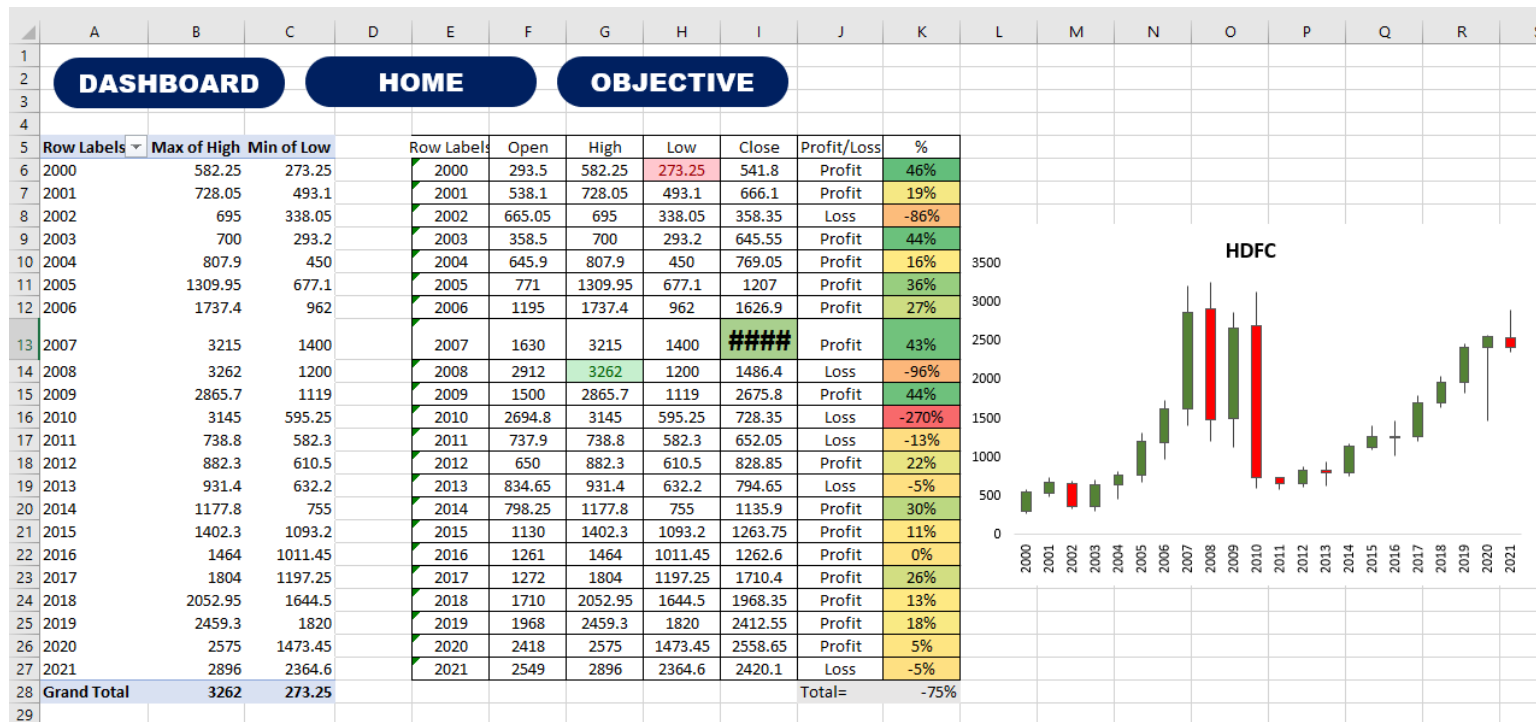
I have also added the profit loss and percentage of by using the formula

Formula for profit/loss is **=IF(open price<close price,"Profit","Loss")**

Formula for percentage is **=(close price-open price)/close price**

Analysis results

In figure I have shown the highest closing price with the help of conditional formatting and also created the stock chart with the help of table.



References

Kaggle

Youtube

Google

Books