

Summary

- First started with the creating the database, and importing the data from CSV to the database through the import wizard.
- Created a total of 19 tables including a master table that contains all the closing price of the stocks and date.
- Created a table for moving average for 20 days and 50 days for each stock.
- Created a table for signal based on the following logic for each stock:
 - BUY:** IF the moving average of 20 day and 50 day is negative
 - SELL:** IF the moving average of 20 day and 50 day is Positive
 - HOLD:** In all other cases.
- Created User defined function to check what will be the signal for particular day. This is created for only one stock.
- Created one generic User defined function what will be the signal for the particular day for particular stock.

After performing the above work, the following inferences are drawn:

The stock price movement shows the constant upward / downward trend, where the 20 day and 50 day moving average is the significant to take decision on the stocks.

Bajaj stock is the lowest on 2015-05-18 with a closing price of 2221.95 where as highest price on 2018-01-25 with a closing price of 3303.20.

Eicher Motors stock is the lowest on 2016-01-16 with a closing price of 17257.20 where as highest price on 2017-10-13 with a closing price of 31368.20

Hero Motocorp stock is the lowest on 2015-10-20 with a closing price of 2605.05 where as highest price on 2017-10-04 with a closing price of 3794.00.

Infosys stock is the lowest on 2017-10-24 with a closing price of 926.75 where as highest price on 2015-03-31 with a closing price of 2216.60

TCS stock is the lowest on 2017-01-02 with a closing price of 2359.05 where as highest price on 2018-03-22 with a closing price of 2829.95.

TVS stock is the lowest on 2015-10-07 with a closing price of 241.30 where as highest price on 2018-01-29 with a closing price of 719.70

With the keeping Moving average as 50 days, TVS has the highest favourable days to buy the stocks with 509 days and TCS has the highest favourable days to sell with 442 days to sell.