

Assignment - Stock Market Analysis

Steps followed for this Assignment:

1. 'Assignment' schema is created.
2. All 6 stocks csv files are imported using table import.
3. New tables are created for 6 stocks with Date, Closing Price, 20 Day MA, 50 Day MA.
4. Master table is created with combination of all 6 stocks and the Date.
5. Another set of tables are created with Date, Closing Price and Signal.

Here Signal being Sell, Buy or Hold.

- Golden Cross: When the shorter-term moving average crosses above the longer-term moving average, it is a signal to **BUY**, as it indicates that the trend is shifting up.
 - Cross: When the shorter term moving average crosses below the longer-term moving average, it is a signal to **SELL**, as it indicates the trend is shifting down.
6. User defined function is created for the stock 'Bajaj' , it takes date as the input and gives the output Buy, Sell or Hold the stock.

Inferences:

Decision/Signal	Bajaj	Eicher	Hero	Infosys	TCS	TVS
BUY	12	6	9	9	12	8
SELL	11	7	9	9	13	8
HOLD	866	876	871	871	864	873

Since, Bajaj stock is mentioned particularly additional information about it:

- Buy the stock: for 2221.95/- on 18/05/2018
- Sell the stock: for 3303.20/- on 25/01/2018
- Considering the min price (1949/-) and max price (3409.5/-) of the stock there is approximately 75% boost which indicates it to be a good stock but the number of Golden cross (12) and Death cross (11) are more it is a volatile stock.