

Summary of SQL Assignment on Stock Market Analysis

There are 6 different stocks that have been used for this analysis namely Bajaj Auto, Eicher Motors, Hero Motocorp, Infosys, TCS, and TVS. The data that has been taken for the analysis is from the time period between 1 January 2015 and 31 July 2018. The datasets are imported as separate tables and then used to generate 20-day moving average and 50-day moving average for each of the stock. After that, the long-term and short-term moving averages are analysed to create separate tables that will contain a flag named 'signal' to indicate whether someone should buy, sell, or hold the stocks of each of the company on a particular day.

Some of the observations made during the analysis

The number of death crosses observed in the datasets for each of the stocks is:

- i. TCS – 13
- ii. Bajaj Auto – 11
- iii. Hero Motocorp – 9
- iv. Infosys – 9
- v. TVS – 8
- vi. Eicher Motors – 7

The number of golden crosses observed in the datasets for each of the stocks is:

- i. TCS – 12
- ii. Bajaj Auto – 12
- iii. Hero Motocorp – 9
- iv. Infosys – 9
- v. TVS – 8
- vi. Eicher Motors – 6

Overall market trend based on the difference between the highest closing price and the lowest closing price for each of the stocks:

- i. **TCS:**
-607 units - The overall trend was bearish along with a lot of fluctuations in the market for this stock
- ii. **Bajaj Auto:**
247 units - The market was moderately bullish for this stock with a high number of death and golden crosses
- iii. **Hero Motocorp:**
186 units - With a total of 18 golden and death crosses, this stock has displayed a low bullish trend in the market
- iv. **Infosys:**

-611 units - While this stock has witnessed 9 golden crosses and 9 death crosses, the overall market trend is bearish

v. TVS:

241 units - This stock has seen a total of 16 crosses, both golden and death, along with a moderately bullish overall market trend

vi. Eicher Motors:

12582 units - This stock has not fluctuated much and the overall trend shows that this stock is highly bullish