

SQL ASSIGNMENT-1

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Question-1:

Create a new table named 'bajaj1' containing the date, close price, 20 Day MA and 50 Day MA. (This has to be done for all 6 stocks)

Answer:

Create a table bajaj1 with date, price, 20 Day Moving Average and 50 Day Moving Average.

Use the AVG ('Close Price') and order by date with rows 19 to 49 preceding as 20 Day Moving Average and 50 Day Moving Average.

Question-2:

Create a master table containing the date and close price of all the six stocks. (Column header for the price is the name of the stock)

Answer:

Create a master stock table with the close price and Join the tables with the Dates for each of the tables such as Bajaj, TVS Motors, TCS, EICHER Motors, Infosys and Hero.

Question-3:

Use the table created in Part(1) to generate buy and sell signal. Store this in another table named 'bajaj2'. Perform this operation for all stocks.

Answer:

Create a new table named bajaj2, eicher_motors2, hero2, tcs2, infosys2, tvs_motors2 and create a new table signal based on the buy/sell criteria.

Question-4:

Create a User defined function, which takes the date as input and returns the signal for that particular day (Buy/Sell/Hold) for the Bajaj stock.

Answer:

Create a user defined function that provides the signal of whether to sell/buy/Hold signals which can be based in the date of the month and year.

Question-5:

Write a brief summary of the results obtained and what inferences you can draw from the analysis performed. (Less than 250 words to be submitted in a pdf file)

Answer:

Inferences:

BAJAJ STOCKS:

- For Bajaj stocks, it is observed that mostly in the mid of every month around 20th the stocks are signaled as **Sell** in **2016**.
- Mostly, the Bajaj stocks are signaled **Hold** with total of **722** signals for Hold, **86 Buy** Signals and **80 Sell** Signals

Trade Signal	Count
Hold	722
Buy	86
Sell	80

- Hence, the Bajaj stock is Hold most of the time but the signal is **Buy** more than the Sell signals.

EICHER MOTORS STOCKS:

- For Eicher Motors, it is observed that between **1-10th** and **25-30th** of every month in **2016** the stocks are signaled as **Buy**
- Mostly, the Eicher Motors stocks are bought at start and end of the month and Hold for most of the years.

Trade Signal	Count
Hold	709
Buy	89
Sell	90

- Hence the Eicher Motors stocks are **Hold** for most of the year but the stocks are sold and bought more equally.

HERO MOTOCORP:

- For Hero stocks mostly the signal is **Sell** on the 1st, 11th and 27th date of the months each year.
- Mostly the stock signal is **Buy** rather than **Sold** in the mid months of the year from **April to September**.

Trade Signal	Count
Hold	685
Buy	109
Sell	94

- The stock signal is signaled as **Hold** for **685** times for most of the year from **January to March and October to December**.

INFOSYS:

- Infosys gets the Hold signal the most with 765 times and has the least Buy signal.
- From 2nd to 15th of each month the signal is **Buy** for the Infosys stock.

Trade Signal	Count
Hold	765
Buy	55
Sell	68

TCS:

- TCS is the stock with **least Sell** signal which means it is either on **Hold** or **bought** more.
- TCS stocks are bought and held from 1st to 12th of every month in each month of the year 2016.

Trade Signal	Count
Hold	776
Buy	57
Sell	55

TVS MOTORS:

- TVS Motors stock is the most **bought** and **sold** stock among the other six stocks.
- Hence, TVS Motors is the most **vulnerable** stock among the six stocks which is sold and bought frequently.
- TVS Motors is **Sold** the maximum number of times with **111** times among the six stocks.

Trade Signal	Count
Hold	657
Buy	120
Sell	111