

Stock Market Analysis Summary

Talking about TASK-1:

As a Pre-requisite I, firstly created Database named "Assignment" and imported datasets as tables. Then I created temporary tables to modify datatype of Date column in each table, and finally created bajaj1 and added columns "20 Day MA, 50 Day MA" as per requirements mentioned. Then dropped the unnecessary tables (temp tables).

Thus, this task concludes making of moving averages, updating tables, modifying datatypes.

Talking about TASK-2:

As Instructed, I created a table named "Master Table", consisting of columns "Date" and Closing Price of all Stocks under their respective names as columns.

Thus, learnt about fetching data from various tables and loading them in new table.

Talking about TASK-3:

The main goal of this task is to create/show signal to buy or sell or hold on to one particular stock at particular date. For this, firstly I needed to create temporary tables which hold new columns called "20_MA_Prev" and "50_MA_Prev", signals to buy or sell or hold is based on difference between Moving Average of present date and a day before. Thus, later I created table bajaj2 and with new column "Signal" and which works on conditions given.

This task taught me using IF-ELSE conditions for columns of same tables and results outcome in another column.

Talking about TASK-4:

This is very simple task where I created User-Defined-Function (UDF) where it takes Date as input and fetches Signal as output.

This task taught me application of UDF in real life projects.

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