Summary of Process and Strategy used to create tables for SQL Assignment

Once csv's loaded in MySQL , further processing results in 3 sets of Table.

1. A Set of 6 tables of form stock1(Date(pk), Close Price, 20 Day MA, 50 Day MA). *S*tocks are bajaj, eicher, hero, Infosys, tcs , tvs.
    a. Each table has 889 records.
    b. Date columns are unique hence candidate for Primary Key.
2. Master containing Close price of all 6 stocks as master(Date, Bajaj, TCS, TVS, Infosys, Eicher, Hero).
    a. The tables in process 1 were inner joined. To optimise, Date column of input tables made Primary key.
3. A Set of 6 table stock2(Date, Close Price, Signal). The column "Signal", has 3 values Buy, Sell or Hold.
    a. Signal column creation
        i. Test when 20 Day MA Exceeds 50 Day and "flag" as 0 or 1
        ii. Test if 20 Day MA has gone up/down or same as "Trend"
        iii. Average flag (0s and 1s) of row and the row above
            1. If average is 0.5 and "Trend" is "up" then signal "buy"
            2. If average is 0.5 and "Trend" is "down", signal "sell"
            3. Rest, signal "Hold"
    b. Filter first 49 rows as they does not truly contain 50 day moving average.

A procedure was written to get signal when provided a date. Exception handling in case of missing date is been done.