

Key Observations on data provided:

1. Data had a different date format, so date transformation was required
2. Some columns had spaces so those were transformed as NULL

Summary:

Moving Averages of all stocks were first calculated and cross-checked with data analysis done using Excel. Based on the market Analysts expert suggestions on how to Buy/Sell a stock, a formula was derived using lag of current date and previous date along with golden rule of Cross-over MA i.e. Golden and Death Cross. Signals were created. And the count of which stocks can be bought / sold were derived for the given period. At the end of this whole exercise, now on a given date which stock can be bought or Sold can be found out. The whole process can now be more stream-lined by creating common Stored Procedure and given a date, Stock name the Signals can be used to decide what Stocks can be purchased or sold.