SQL Assignment – Stock Market Analysis:

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Objective

The aim of the Stock Market Analysis is to determine the stocks that can be signaled as bought / sold / hold on the basis of moving averages with a 20-day (short-term) versus a 50-day (long term) using a Golden Cross versus a Death Cross.

Abstract

Based on the provided stocks – Bajaj Auto, Eicher Motors, Hero Motocorp, Infosys, TCS, TVS Motors the following has been done:

- Calculated the Moving Averages based on short-term and long-term moving averages
- Based on the Golden Cross or Death Cross, decided the Buy / Hold / Sell signal for the period from 13th March 2015 to 31st July 2018

Analysis

It has been noted that the predictions based on the Simple Moving Average may not be always correct. However, as per the trade signals calculated, the best predictions to buy and sell stocks are given below:

Bajaj Auto

- Buy @ 18/05/2015 at the closing price of 2221.95/-
- Sell @ 25/01/2018 at the closing price of 3303.20/-

Eicher Motors

- Buy @ 11/01/2016 at the closing price of 17257.20/-
- Sell @ 13/10/2017 at the closing price of 31368.20/-

Hero MotoCorp

- Buy @ 20/10/2015 at the closing price of 2605.05/-
- Sell @ 04/10/2017 at the closing price of 3794/-

Infosys
We notice a downward price trend here for the *Infosys* stock

- Sell @ 31/03/2015 at the closing price of 2216.60/-
- Buy @ 24/10/2017 at the closing price of 926.75/-

TCS

- Buy @ 02/01/2017 at the closing price of 2359.05/-
- Sell @ 22/03/2018 at the closing price of 2829.95/-

TVS Motors

- Buy @ 07/10/2015 at the closing price of 241.30/-
- Sell @ 29/01/2018 at the closing price of 719.70/

Golden Cross

The golden cross is a bullish breakout pattern formed from a crossover involving a security's short-term moving average (such as the 15-day moving average) breaking above its long-term moving average (such as the 50-day moving average) or resistance level

Death Cross

The death cross is a technical chart pattern indicating the potential for a major selloff. The death cross appears on a chart when a stock's short-term moving average crosses below its long-term moving average.