SQL Assignment - Stock Market Analysis

Results Obtained & Inferences;

1. There were numerous instances on each stock where short term moving average (20 Day) was crossing over long term moving average (50 Day) which indicated the good time for buying a stock. Bajaj Auto and TCS generate the maximum such instances.
2. Below is a tabulated summary of count of number of instances when there was a signal for Buying or Selling a stock based on approximately last three years of data;

Sr. No.	Stock	Signals	Count Instances
1	Bajaj Auto	Buy	12
		Sell	11
		Hold	866
2	Eicher Motors	Buy	6
		Sell	7
		Hold	876
3	Hero Motocorp	Buy	9
		Sell	9
		Hold	871
4	Infosys	Buy	9
		Sell	9
		Hold	871
5	TCS	Buy	12
		Sell	13
		Hold	864
6	TVS Motors	Buy	8
		Sell	8
		Hold	873

3. User Defined Function is created in a way to generate the actual signal if exist for a day in Bajaj2 table or else it gives the result as 'Hold'.
4. Below is list of assumptions made in completing this assignment;
   a. Signals are calculated from the first instance when the short-term moving average crosses the long-term moving average and hence for every stock, 50th row shows the signal as 'Hold'.
   b. UDF will result in 'Hold' signal if the date is not found in Bajaj2 table; signifying that there is no data for calculation on that day or it might be a holiday in stock exchange.