ERP LAUNCHPAD INTERNSHIP TASKS

Solution Links:

1. Spreadsheet:

   https://docs.google.com/spreadsheets/d/1MSPculeQb0bVeFnc4mYgL3FCeSZodmctzcnD3WV7__M/edit#gid=68892552

2. Looker Studio:

   https://lookerstudio.google.com/reporting/4f858a61-aea8-4885-8acc-bd21321515dc
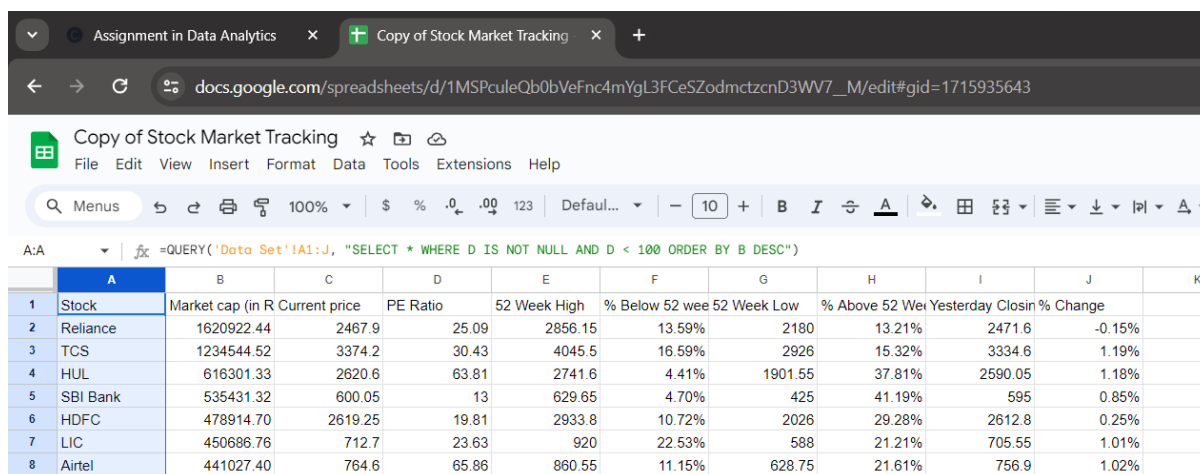
1.) Data Manipulation Tasks

Task 1 : First Create a New Sub Sheet & Fetch all the Data from the Sheet called "Data Set" where Data from the PE Ratio is not Blank & PE Ratio < 100 using Query Function and sort the data by Descending of Market Cap Amount.

Soln: =QUERY('Data Set'!A1:J, "SELECT * WHERE D IS NOT NULL AND D < 100 ORDER BY B DESC")

Task 2 : Now Create 2 Columns of Industry & NSE/BSE Code & Fetch Data from the Second Sheet with Vlookup, Make sure the Vlookup Formula is used with "ARRAYFORMULA" meaning formula will be written only once but will be applicable throughout the column.

Soln 1: = ArrayFormula(IF(A2:A<>"", (VLOOKUP(A2:A,'NSE/BSE Code'!A4:C, 2, 0)), ""))

Soln 2: = ArrayFormula(IF(A2:A<>"", (VLOOKUP(A2:A,'NSE/BSE Code'!A4:C, 3, 0)), ""))

Task 3 : Now Create 2 More Columns at the End with the Heading "Bear Mode 1" & "Bear Mode 2"

Bear Mode 1 Condition : Use IF Condition to print "Yes" if % Change from 52 Week High > 30 else "No"

Soln: =ArrayFormula(IF(F2:F<>"", IF(F2:F > 30%, "Yes", "No"), ""))

Bear Mode Condition 2 : Use IF Condition to print "Yes" if % Change from 52 Week Low < 30 else "No"

Sol: =ArrayFormula(IF(H2:H<>"", IF(H2:H < 30%, "Yes", "No"), ""))

Stock Status : Now Create a Column named "Stock Status" & then apply multiple IF Conditions to check if PE Ratio <65, Bear Mode 1 & 2 = "No" then Print "Good Stock" in the column else "".

Sol: = ArrayFormula(IF((D2:D<65) * (M2:M="No") * (N2:N="No"), "Good Stock", ""))

Task 4 : Now find out the Highest value of the Market Cap & then categorize 60% and Above of the Highest Value as Large Cap Stocks, 40-60% as Medium Cap Stocks & 0-40% as Low Cap Stocks in a new Column at last naming it as Cap Size.

Sol: = ArrayFormula(IF((D2:D<65) * (M2:M="No") * (N2:N="No"), "Good Stock", ""))

Task 5 : Now create a new sheet & fetch all Data where Stock Status = 'Good Stock' which will be your Final Organized Data Source so Create Proper Formatting to this Sheet like the Data Source Sheet & also add Appropriate Conditional Formatting Colour Scales.

Sol: =QUERY(Analysis!A1:P, "SELECT * WHERE O = 'Good Stock'", 1)

2.) Report Dashboarding

Task 1 : Connect the Data Source Sheet which you created above in Task 5 to Google Data Studio.

Task 2 : Now if specific requirements are given creating Reports is easy, so we keep upto you that how well you understand the Data Set & Provide with Good Analysis which will actually be meaningful & Also Attractive.

Sol: Industry Analysis and Stock Analysis Dashboards

In Industry Analysis Dashboard, we can check the best industries according to market cap, PE ratio, and average prices of industry. And in Stock Analysis Dashboard, we can check the biggest companies according to market cap, PE ratio, and prices movement of stocks.

Stock Market Analysis
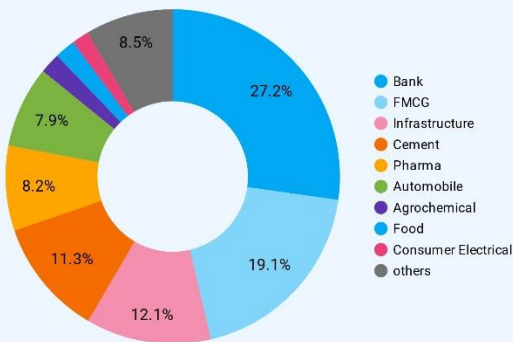
Industry Analysis

AVG PE Ratio	Total Industries	Stock	Total Market Cap (in Rs Cr.)
35.06	26	47	3.72M

Stock ▾   Industry ▾

Market Cap by Industry

- Bank — 27.2%
- FMCG — 19.1%
- Infrastructure — 12.1%
- Cement — 11.3%
- Pharma — 8.2%
- Automobile — 7.9%
- Agrochemical
- Food
- Consumer Electrical
- others — 8.5%

PE Ratio by Industry

Industry	PE Ratio
NBFC	6.9
Piping	15.9
Retail	17.8
Infrastructure	18.3
Bank	19.4
Automobile Ancilliary	20.9
AMC	21.6
Consumer Electrical	27.2
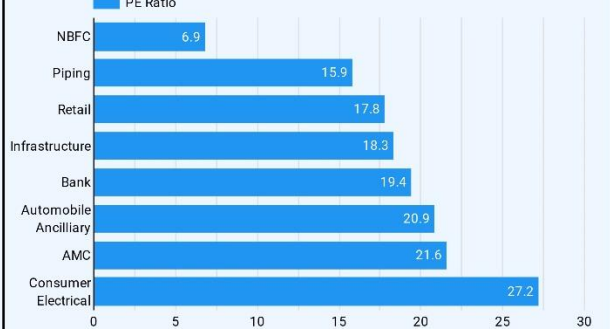
Market Cap Details

	Industry	Market cap (in Rs Cr.)	Companies
1.	Bank	1M	6
2.	FMCG	710K	2
3.	Infrastructure	449.9K	2
4.	Cement	421.5K	4
5.	Pharma	305.5K	4
6.	Automobile	292.9K	3
7.	Agrochemical	74.1K	2
8.	Food	73.7K	1

Average Price by Industry

	Industry	Current price	52 Week High ▲	% Below 52 week high
1.	Telecom	73.6	101.35	27.38%
2.	Piping	173	204.5	15.4%
3.	Retail	165.55	209.41	20.94%
4.	NBFC	402.9	443.5	9.15%
5.	Kitchen Appliances	462.25	480.4	3.78%
6.	Bank	458.45	486.98	7.46%
7.	IT	696.3	764.25	8.89%
8.	Automobile Ancilliary	719.28	866.17	13%

*Note: All stocks are small-cap stocks

Stock Market Analysis

Stock Analysis

Avg PE Ratio	Total Stocks	Top Gainer	Top Loser
35.06	47	5.67%	-4.42%

Stock ▾   Industry ▾

Stocks by Market Cap

HUL, SBI Bank, L&T, Axis Bank, Sun pharma, M&M, Ultratech Ce..., Tata Steel, Ambuja Ce..., PI ind..., Bank of Baroda, Shree C..., Godrej Consumer, Yesbank, TVS, Abbott India, Eicher Motor, Varun Beverage, Balkrishna..., Polycab, Solar Ind..., Supreme In..., APL Apollo, Feder..., Sum...
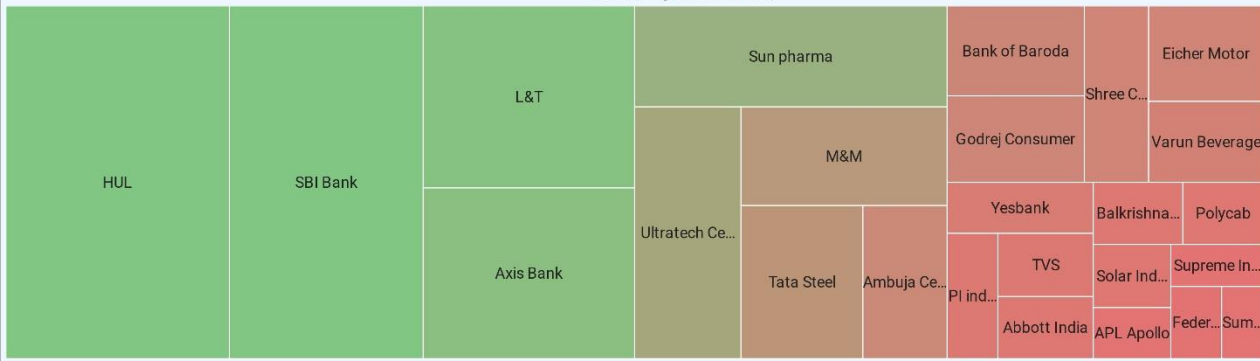
Stock Price Details

	Stock	Current price	52 Week High	% Below 52 week high
1.	HFCL	73.6	101.35	27.38%
2.	Astec Lifesciences	1,669.3	2,285.65	26.97%
3.	UTI AMC	807.2	1,096.05	26.35%
4.	Fine Organics	5,630	7,328.75	23.18%
5.	Goldiam International	165.55	209.41	20.94%
6.	Varun Beverage	1,134.8	1,432.05	20.76%
7.	J K Cement	2,900.45	3,646.25	20.45%

PE Ratio by Industry

Stock	PE Ratio
Exide Battery	3.39
Tata Steel	5.13
LIC Housing Finance	6.85
Bank of Baroda	9.72
Federal Bank	11.78
SBI Bank	13
Finolex Cable	15.6
Axis Bank	15.67

*Note: All stocks are small-cap stocks

3.) Google App Script Tasks

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Google Sheets

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