

Stock Market Tracking Solution Report

- Task 1: Selected filtered data using query function in cell A1 in new sub sheet named "Tasks 1-3". Function applied is `=QUERY(stock_data, "SELECT * where D is not null and D<100 ORDER BY B DESC")` where `stock_data` is the name range created on data in sheet "Data Set"

- Task 2: Created 2 new columns Industry & NSE/BSE code. Applied IF + Vlook up function in cell K2 to fetch Industry & NSE/BSE code from sheet "NSE/BSE code" against every stock. In the same formula applied Array Formula. Full Formula applied in cell K2 is `=ARRAYFORMULA(IF(A2:A="", "", (VLOOKUP(A2:A, stock_code, {2,3},0))))` where `stock_code` is the name range created on data in sheet "NSE/BSE code"

- Task 3: Created 2 more new columns "Bear Mode 1" & "Bear Mode 2" and applied IF condition to filter data as per conditions given in Task 3. Then created a new column "Stock Status" and applied multiple IF conditions =IF(D2<65, IF(AND(M2="No", N2="No"), "Good Stock", "")) in Cell O2 to determine stock status

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Stock	Market cap (in	Current price	PE Ratio	52 Week High	% Below 52 w	52 Week Low	% Above 52 W	Yesterday Clo	% Change	Industry	NSE/BSE Code	Bear Mode 1	Bear Mode 2	Stock Status		
2	Reliance	1620622.44	2407.9	25.09	2856.15	13.59%	2180	13.21%	2471.0	-0.15%	Telecom and oil	RELIANCE	=IF(E2>30%, "Yes", "No")				
3	TCS	1234544.52	3374.2	30.43	4045.5	16.59%	2026	15.32%	3334.0	1.19%	IT	BOM:532540	No	Yes			
4	HUL	616301.33	2620.8	63.81	2741.8	4.41%	1901.55	37.81%	2590.05	1.18%	FMCG	HINDUNILVR	No	No	Good Stock		
5	SBI Bank	536431.32	600.05	13	629.65	4.70%	425	41.19%	595	0.85%	Bank	BOM:500112	No	No	Good Stock		
6	HDFC	478914.70	2619.25	16.81	2933.8	10.72%	2026	29.28%	2612.9	0.25%	Financial Service	HDFC	No	Yes			
7	LIC	450588.76	712.7	23.83	920	22.53%	588	21.21%	705.55	1.01%	Insurance	BOM:543526	No	Yes			
8	Airtel	441027.40	764.6	65.86	860.55	11.15%	628.75	21.01%	756.9	1.02%	Telecom	BHARTIARTL	No	Yes			
9	Bajaj Finance	361172.64	5977	36.52	8045	25.71%	5220	14.50%	5898.4	1.33%	NBFC	BAJFINANCE	No	Yes			
10	Kotak Bank	354002.54	1780.5	25.87	1967.55	10.87%	1631	9.17%	1779.5	0.09%	Bank	KOTAKBANK	No	Yes			
11	L&T	302617.17	2153.75	31.53	2210.5	2.57%	1459.8	47.64%	2160.2	-0.30%	Infrastructure	BOM:500510	No	No	Good Stock		
12	Axis Bank	287213.29	933.9	15.67	970	3.72%	618.25	51.09%	935.55	-0.18%	Bank	AXISBANK	No	No	Good Stock		
13	Asian Paints	276950.10	2912	76.19	3552.9	18.73%	2590	13.75%	2915.95	-0.14%	Paint	ASIANPAINT	No	Yes			
14	Maruti Suzuki	256438.42	8454.2	42.1	9769	13.46%	6536.55	29.34%	8399.2	1.02%	Automobile	MARUTI	No	Yes			
15	Sun pharma	247191.65	1031.05	60.4	1070.65	3.73%	784.8	31.38%	1032.85	-0.17%	Pharma	SUNPHARMA	No	No	Good Stock		
16	Bajaj Finserv	221262.51	1391	40.48	3724.2	62.65%	1374.35	1.21%	1387.8	0.23%	Financial Service	BAJAJFINSV	Yes	Yes			
17	Titan	214719.01	2417.65	66.59	2790	13.35%	1827.15	32.32%	2445.65	-1.14%	Retail	BOM:500114	No	No			
18	Ultratech Cem	206976.80	7244.95	31.35	7946	8.82%	5157.05	40.49%	7153.35	1.28%	Cement	ULTRACEMCO	No	No	Good Stock		
19	Nestle	190752.20	19762.3	88.1	21050	6.02%	16000	23.64%	16873.25	-0.48%	FMCG	NESTLEIND	No	Yes			
20	M&M	158785.37	1327.55	16.12	1366.55	2.95%	871.15	97.80%	1319.9	0.58%	Automobile	M&M	No	No	Good Stock		
21	Tata Steel	147293.60	120.45	5.13	138.63	13.11%	62.71	45.63%	116.05	2.03%	Infrastructure	BOM:500470	No	No	Good Stock		
22	SBI life Insuran	130556.99	1307	76.07	1340.35	2.40%	1003.5	30.24%	1315.7	-0.86%	Insurance	SBI LIFE	No	No			
23	HDFC life Insur	129917.60	604	85.12	678.8	11.02%	497.05	21.52%	598.4	0.94%	Insurance	HDFCLIFE	No	Yes			
24	Pidilite Industri	127340.00	2513	98.38	2918.65	13.91%	1688.55	26.37%	2495.5	0.70%	Chemical	PIDILITIND	No	Yes			
25	L&T Infotech	126814.00	4289.8	34.73	4293.25	0.08%	4147.45	3.43%	4279.2	0.25%	IT	BOM:540005	No	Yes			
26	Britannia	104442.90	4328	65.9	4537	4.61%	3050	41.00%	4296.25	0.87%	FMCG	BRITANNIA	No	No			
27	Ambuja Cemer	102695.38	518.7	57.36	598.15	13.28%	274	89.31%	510.4	1.63%	Cement	BOM:500425	No	No			
28	Bajaj Auto	101964.89	3802.45	17.79	4131.75	12.81%	3125	15.28%	3570.3	0.90%	Automobile	BAJAJ-AUTO	No	Yes			
29	Tech Mahindra	97831.02	1002.8	16.8	1751	42.73%	943.7	6.25%	1001.55	0.12%	IT	TECHM	Yes	Yes			

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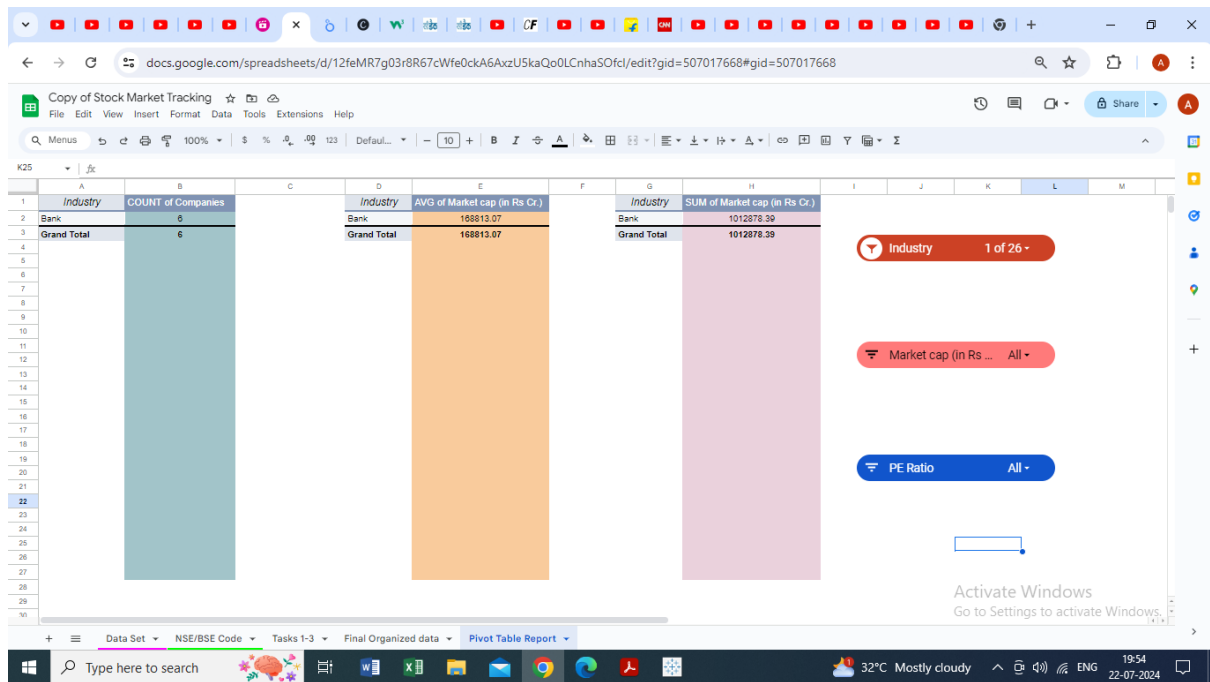
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- Task 4: Created a new sheet “Final organized data” and applied query function =QUERY (filtered_data, "Select * where O = 'Good Stock'", 1) to fetch data having “Stock Status” = 'Good Stock' from sheet “Tasks 1-3”. Here filtered_data is the name range given to data in sheet “Tasks 1-3”

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- Task 5: Created 3 pivot tables based on “Final Organized data” sheet – Industry wise count of companies, Industry wise average market cap, Industry wise sum of market cap. From pivot table Data analysis we can see that Banking industry has max count of companies in the data, FMCG industry has the highest avg. market cap whereas Banking industry has the highest sum by market cap in the given data. Also created 3 slicers namely Industry, Market cap & PE ratio so that one can filter data in pivot table based on a particular industry or single out particular company of an industry based on market cap or PE ratio

Industry	COUNT of Companies	Industry	AVG of Market cap (in Rs Cr.)	Industry	SUM of Market cap (in Rs Cr.)
Bank	6	FMCG	35400.09	Bank	1012873.39
Pharma	5	Infrastructure	22405.38	FMCG	70980.19
Cement	4	Bank	15813.07	Infrastructure	44610.77
Automobile	4	Cement	15571.64	Cement	421490.78
Consumer Electrical	3	Pharma	7631.23	Pharma	35524.93
Automobile Ancillary	3	Automobile	7509.85	Automobile	30053.80
Infrastructure	2	Food	7566.48	Agrochemical	7413.49
FMCG	2	Tyre	43195.87	Food	7306.48
Agrochemical	2	Defence	3835.14	Consumer Elect	61375.14
Tyre	1	Agrochemical	3706.73	Automobile Anc	4531.77
Telecom	1	Steel	31477.05	Tyre	43195.87
Technology	1	Plastic	31369.62	Defence	3835.14
Steel	1	NBFC	22156.27	Steel	31477.05
Retail	1	Consumer Elect	20458.38	Plastic	31369.62
Plastic	1	IT	18227.85	NBFC	22156.27
Piping	1	Chemical	17277.25	IT	18227.85
NBFC	1	Automobile Anc	16027.26	Chemical	17277.25
Kitchen Appliances	1	Piping	10544.74	Piping	10544.74
IT	1	AMC	10324.29	AMC	10324.29
Healthcare	1	Telecom	10125.79	Telecom	10125.79
Food	1	Healthcare	8564.67	Healthcare	8564.67
Defence	1	Ceramics	6919.87	Ceramics	6919.87
Chemical	1	Technology	6367.83	Technology	6367.83
Ceramics	1	Kitchen Appliance	3335.19	Kitchen Appliance	3335.19
AMC	1	Retail	3279.61	Retail	3279.61
Grand Total	47	Grand Total	75124.86	Grand Total	3718531.98



Pivot Tables with Filter applied for Bank industry

Data Studio

Next, created 3 charts in Data Studio taking same Dimension & metric i.e. Industry wise count of companies, Industry wise average market cap, Industry wise sum of market cap each on a separate page numbered 1,2,3. For industry wise count of companies created horizontal Bar graph while for the other 2 charts created vertical Bar graphs. In the end created a Dynamic report dashboard in sheet no. 4 in Data Studio with same slicers as created for pivot table in google sheets

