

# Data Manipulation Tasks

## Task 1: Data Manipulation

Created a new sub-sheet and named it "Filtered Data".

Fetching data using the Query function: In the new Filterd Datasheet, in the first cell (A1), enter the following formula using the Query function:

```
=QUERY('Data Set'!A1:J,"SELECT * WHERE D is not null AND D < 100 ORDER BY B DESC", 1)
```

By this, you get the following result

The screenshot shows a Google Sheets interface with the title bar 'Copy of Stock Market Tracking'. The 'Filtered Data' tab is selected. The formula bar at the top contains the formula: '=QUERY('Data Set'!A1:J,"SELECT \* WHERE D is not null AND D < 100 ORDER BY B DESC", 1)'. The main content area displays a table with 25 rows of stock market data. The columns are labeled A through J, with headers including 'Stock', 'Market Cap (In Cr)', 'Current price', 'PE Ratio', '52 Week High', '% Below 52 wee', '52 Week Low', '% Above 52 Wee', 'Yesterday Closin', and '% Change'. The data includes various Indian stocks like Reliance, TCS, HUL, SBI Bank, HDFC, LIC, Airtel, Bajaj Finance, Kotak Bank, L&T, Axis Bank, Asian Paints, Maruti Suzuki, Sun pharma, Bajaj Finserv, Titan, Ultratech Cemer, Nestle, M&M, Tata Steel, SBI life Insuranc, HDFC life Insur, Pidilite Industries, and L&T Infotech.

A	B	C	D	E	F	G	H	I	J	
1	Stock	Market Cap (In Cr)	Current price	PE Ratio	52 Week High	% Below 52 wee	52 Week Low	% Above 52 Wee	Yesterday Closin	% Change
2	Reliance	1620922.44	2467.9	25.09	2856.15	13.59%	2180	13.21%	2471.6	-0.15%
3	TCS	1234544.52	3374.2	30.43	4045.5	16.59%	2926	15.32%	3334.6	1.19%
4	HUL	616301.33	2620.6	63.81	2741.6	4.41%	1901.55	37.81%	2590.05	1.18%
5	SBI Bank	535431.32	600.05	13	629.65	4.70%	425	41.19%	595	0.85%
6	HDFC	478914.70	2619.25	19.81	2933.8	10.72%	2026	29.28%	2612.8	0.25%
7	LIC	450686.76	712.7	23.63	920	22.53%	588	21.21%	705.55	1.01%
8	Airtel	441027.40	764.6	65.86	860.55	11.15%	628.75	21.61%	756.9	1.02%
9	Bajaj Finance	361172.64	5977	36.52	8045	25.71%	5220	14.50%	5898.4	1.33%
10	Kotak Bank	354002.54	1780.5	25.87	1997.55	10.87%	1631	9.17%	1779.5	0.06%
11	L&T	302617.17	2153.75	31.53	2210.5	2.57%	1456.8	47.84%	2160.2	-0.30%
12	Axis Bank	287213.29	933.9	15.67	970	3.72%	618.25	51.06%	935.55	-0.18%
13	Asian Paints	278960.10	2912	76.19	3582.9	18.73%	2560	13.75%	2915.95	-0.14%
14	Maruti Suzuki	255438.42	8454.2	42.1	9769	13.46%	6536.55	29.34%	8369.2	1.02%
15	Sun pharma	247191.65	1031.05	60.4	1070.95	3.73%	784.8	31.38%	1032.85	-0.17%
16	Bajaj Finserv	221292.51	1391	40.48	3724.2	62.65%	1374.35	1.21%	1387.8	0.23%
17	Titan	214719.01	2417.65	68.59	2790	13.35%	1827.15	32.32%	2445.65	-1.14%
18	Ultratech Cemer	208975.80	7244.95	31.35	7946	8.82%	5157.05	40.49%	7153.35	1.28%
19	Nestle	190752.20	19782.3	88.1	21050	6.02%	16000	23.64%	19873.25	-0.46%
20	M&M	158785.37	1327.55	16.12	1366.55	2.85%	671.15	97.80%	1319.9	0.58%
21	Tata Steel	147293.60	120.45	5.13	138.63	13.11%	82.71	45.63%	118.05	2.03%
22	SBI life Insuranc	130568.99	1307	78.07	1340.35	2.49%	1003.5	30.24%	1315.7	-0.66%
23	HDFC life Insur	129917.60	604	85.12	678.8	11.02%	497.05	21.52%	598.4	0.94%
24	Pidilite Industries	127340.00	2513	98.38	2918.95	13.91%	1988.55	26.37%	2495.5	0.70%
25	L&T Infotech	126812.40	4200.9	24.72	4202.25	0.00%	4147.45	2.10%	4270.2	0.25%

## Task 2: Creating Industry and NSE/BSE Code Columns

Create two columns: In a new sheet or a separate section of the existing sheet, create two columns named "Industry" and "NSE/BSE Code". These columns will be used to fetch data from the second sheet using the Vlookup formula.

Use Vlookup with ARRAYFORMULA and IF conditions: In the first cell of the "Industry" column ENTER the following formula:

```
=ArrayFormula(IF(A2:A <> "", VLOOKUP(A2:A, 'NSE/BSE
Code'!$A$3:$B$219, 2, FALSE), ""))
```

This formula checks if the corresponding cell in column B is not blank. If it's not blank, it applies the Vlookup formula to fetch the value from the "Second Sheet" in column A and populates it in the "Industry" column. Otherwise, it leaves the cell empty.

Enter the formula for NSE/BSE Code: In the first cell of the "NSE/BSE Code" column (let's say cell C2), enter the following formula:

```
=ArrayFormula(IF(A2:A <> "", VLOOKUP(A2:A, 'NSE/BSE Code'!$A:$C, 3, FALSE),
""))
```

Similarly, this formula checks if the corresponding cell in column B is not blank. If it's not blank, it applies the Vlookup formula to fetch the value from the "Second Sheet" in column A and populates it in the "NSE/BSE Code" column. Otherwise, it leaves the cell empty.

Since we used ARRAYFORMULA in the formulas, the Vlookup formulas will be applied automatically throughout the respective columns as you enter data in the cells below. The IF condition ensures that the formulas are only applied when there is data in the corresponding row of the NSE/BSE Code column.

The screenshot shows a Google Sheets interface with the following details:

- Formula Bar:** The formula `=ArrayFormula(IF(A2:A <> "", VLOOKUP(A2:A, 'NSE/BSE Code'!$A:$C, 3, FALSE), ""))` is entered into cell K2.
- Table Structure:**

	B	C	D	E	F	G	H	I	J	K	L
1	Market Cap (In Cr)	Current price	PE Ratio	52 Week High	% Below 52 wee	52 Week Low	% Above 52 Wee	Yesterday Closin	% Change	Industry	NSE/BSE Code
2	1620922.44	2467.9	25.09	2856.15	13.59%	2180	13.21%	2471.6	-0.15%	Telecom and oil	RELIANCE
3	1234544.52	3374.2	30.43	4045.5	16.59%	2926	15.32%	3334.6	1.19%	IT	BOM:532540
4	616301.33	2620.6	63.81	2741.6	4.41%	1901.55	37.81%	2590.05	1.18%	FMCG	HINDUNILVR
5	535431.32	600.05	13	629.65	4.70%	425	41.19%	595	0.85%	Bank	BOM:500112
6	478914.70	2619.25	19.81	2933.8	10.72%	2026	29.28%	2612.8	0.25%	Financial Services	HDFC
7	450686.76	712.7	23.63	920	22.53%	588	21.21%	705.55	1.01%	Insurance	BOM:543526
8	441027.40	764.6	65.86	860.55	11.15%	628.75	21.61%	756.9	1.02%	Telecom	BHARTIARTL
9	361172.64	5977	36.52	8045	25.71%	5220	14.50%	5898.4	1.33%	NBFC	BAJFINANCE
10	354002.54	1780.5	25.87	1997.55	10.87%	1631	9.17%	1779.5	0.06%	Bank	KOTAKBANK
11	302617.17	2153.75	31.53	2210.5	2.57%	1456.8	47.84%	2160.2	-0.30%	Infrastructure	BOM:500510
12	287213.29	933.9	15.67	970	3.72%	618.25	51.06%	935.55	-0.18%	Bank	AXISBANK
13	278960.10	2912	76.19	3582.9	18.73%	2560	13.75%	2915.95	-0.14%	Paint	ASIANPAINT
14	255438.42	8454.2	42.1	9769	13.46%	6536.55	29.34%	8369.2	1.02%	Automobile	MARUTI
15	247191.65	1031.05	60.4	1070.95	3.73%	784.8	31.38%	1032.85	-0.17%	Pharma	SUNPHARMA
16	221292.51	1391	40.48	3724.2	62.65%	1374.35	1.21%	1387.8	0.23%	Financial Services	BAJAJFINSV
17	214719.01	2417.65	68.59	2790	13.35%	1827.15	32.32%	2445.65	-1.14%	Retail	BOM:500114
18	208975.80	7244.95	31.35	7946	8.82%	5157.05	40.49%	7153.35	1.28%	Cement	ULTRACEMCO
19	190752.20	19782.3	88.1	21050	6.02%	16000	23.64%	19873.25	-0.46%	FMCG	NESTLEIND
20	158785.37	1327.55	16.12	1366.55	2.85%	671.15	97.80%	1319.9	0.56%	Automobile	M&M
21	147293.60	120.45	5.13	138.63	13.11%	82.71	45.63%	118.05	2.03%	Infrastructure	BOM:500470
22	130568.99	1307	78.07	1340.35	2.49%	1003.5	30.24%	1315.7	-0.66%	Insurance	SBILIFE
23	129917.60	604	85.12	678.8	11.02%	497.05	21.52%	598.4	0.94%	Insurance	HDFCLIFE
24	127340.00	2513	98.38	2918.95	13.91%	1988.55	26.37%	2495.5	0.70%	Chemical	PIDILITIND
25	126813.40	4289.8	34.73	4293.25	0.08%	4147.45	3.43%	4279.2	0.25%	IT	BOM:540005
26	104442.90	4328	65.9	4537	4.61%	3050	41.90%	4299.25	0.67%	FMCG	BRITANNIA
27	102995.36	518.7	57.36	598.15	13.28%	274	89.31%	510.4	1.63%	Cement	BOM:500425
- Bottom Navigation:** Data Set → NSE/BSE Code → Filtered Data → TASK 5 → Sheet9

### Task 3: Creating Bear Mode 1 and Bear Create two additional columns

Start by adding two columns in the new sheet to accommodate the "Bear Mode 1" and "Bear Mode 2" values.

**Bear Mode 1 Condition:** Use an IF condition to check if the percentage change from the 52-week high is greater than 30%. If it is, assign the value "Yes" in the corresponding cell; otherwise, assign "No". This condition helps identify stocks that have experienced a significant decline from their recent highs.

```
=ArrayFormula(IF((E2-C2)/C2*100 > 30, "Yes", "No"))
```

**Bear Mode 2 Condition:** Apply another IF condition to determine if the percentage change from the 52-week low is less than 30%. If it is, assign the value "Yes" in the corresponding cell; otherwise, assign "No". This condition helps identify stocks that are relatively close to their recent lows.

=ArrayFormula(IF((C2-G2)/G2\*100 < 30, "Yes", "No"))

By implementing these conditions, you can quickly assess whether a stock is exhibiting bearish market characteristics based on its performance relative to the 52-week high and low levels. The "Bear Mode 1" and "Bear Mode 2" columns provide a simple way to categorize stocks accordingly.

	E	F	G	H	I	J	K	L	M	N
1	52 Week High	% Below 52 wee	52 Week Low	% Above 52 We	Yesterday Closir	% Change	Industry	NSE/BSE Code	Bear mode	Bear mode
2	2856.15	13.59%	2180	13.21%	2471.6	-0.15%	Telecom and oil	RELIANCE	No	Yes
3	4045.5	16.59%	2926	15.32%	3334.6	1.19%	IT	BOM:532540	No	Yes
4	2741.6	4.41%	1901.55	37.81%	2590.05	1.18%	FMCG	HINDUNILVR	No	No
5	629.65	4.70%	425	41.19%	595	0.85%	Bank	BOM:500112	No	No
6	2933.8	10.72%	2026	29.28%	2612.8	0.25%	Financial Servcies	HDFC	No	Yes
7	920	22.53%	588	21.21%	705.55	1.01%	Insurance	BOM:543526	No	Yes
8	860.55	11.15%	628.75	21.61%	756.9	1.02%	Telecom	BHARTIARTL	No	Yes
9	8045	25.71%	5220	14.50%	5898.4	1.33%	NBFC	BAJFINANCE	Yes	Yes
10	1997.55	10.87%	1631	9.17%	1779.5	0.06%	Bank	KOTAKBANK	No	Yes
11	2210.5	2.57%	1456.8	47.84%	2160.2	-0.30%	Infrastructure	BOM:500510	No	No
12	970	3.72%	618.25	51.06%	935.55	-0.18%	Bank	AXISBANK	No	No
13	3582.9	18.73%	2560	13.75%	2915.95	-0.14%	Paint	ASIANPAINT	No	Yes
14	9769	13.46%	6536.55	29.34%	8369.2	1.02%	Automobile	MARUTI	No	Yes
15	1070.95	3.73%	784.8	31.38%	1032.85	-0.17%	Pharma	SUNPHARMA	No	No
16	3724.2	62.65%	1374.35	1.21%	1387.8	0.23%	Financial Servcies	BAJAJFINSV	Yes	Yes
17	2790	13.35%	1827.15	32.32%	2445.65	-1.14%	Retail	BOM:500114	No	No
18	7946	8.82%	5157.05	40.49%	7153.35	1.28%	Cement	ULTRACEMCO	No	No
19	21050	6.02%	16000	23.64%	19873.25	-0.46%	FMCG	NESTLEIND	No	Yes
20	1366.55	2.85%	671.15	97.80%	1319.9	0.58%	Automobile	M&M	No	No
21	138.63	13.11%	82.71	45.63%	118.05	2.03%	Infrastructure	BOM:500470	No	No
22	1340.35	2.49%	1003.5	30.24%	1315.7	-0.66%	Insurance	SBLIFE	No	No
23	678.8	11.02%	497.05	21.52%	598.4	0.94%	Insurance	HDFCLIFE	No	Yes
24	2918.95	13.91%	1988.55	26.37%	2495.5	0.70%	Chemical	PIDILITIND	No	Yes
25	4293.25	0.08%	4147.45	3.43%	4279.2	0.25%	IT	BOM:540005	No	Yes
26	4537	4.61%	3050	41.90%	4299.25	0.67%	FMCG	BRITANNIA	No	No
27	598.15	13.28%	274	89.31%	510.4	1.63%	Cement	BOM:500425	No	No

## Task 4: Creating Stock Status and Cap Size Columns

In this task, we will create two additional columns named "Stock Status" and "Cap Size" to further analyze and categorize the stocks. Here's an explanation of each step:

1. Creating a Stock Status column: Add a new column named "Stock Status" in the new sheet to indicate whether a stock is considered a "Good Stock" based on specific criteria.

2. Applying multiple IF conditions: Utilize multiple IF conditions to evaluate the following criteria simultaneously:

- Check if the PE Ratio is less than 65.
- Verify that both "Bear Mode 1" and "Bear Mode 2" are equal to "No".

If all these conditions are met, assign the value "Good Stock" in the corresponding cell. Otherwise, leave the cell empty.

The formula for Stock Status:

```
=ArrayFormula(IF(AND(D2<65, M2="No", N2="No"), "Good Stock", ""))
```

3. Categorize cap sizes: Using percentage thresholds to categorize the stocks into different cap sizes., if a stock's Market Cap is 60% or above of the highest Market Cap value, assign the value "Large Cap". If it falls between 40% and 60%, categorize it as "Medium Cap". If it is below 40%, assign the value "Low Cap".

The formula for Cap Size:

```
=ArrayFormula(IF(B2="", "", IF(B2>=MAX($B$2:$B)*0.6, "Large Cap", IF(B2>=MAX($B$2:$B)*0.4, "Medium Cap", "Low Cap"))))
```

By implementing these steps, we can identify and categorize stocks based on their PE Ratio, bear market conditions, and Market Cap. The "Stock Status" column helps determine if a stock meets the specified criteria to be considered a "Good Stock", while the "Cap Size" column provides additional insights into the size classification of the stocks.

Sheet1

	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Current price	PE Ratio	52 Week High	% Below 52 wee	52 Week Low	% Above 52 We	Yesterday Closir	% Change	Industry	NSE/BSE Code	Bear mode 1	Bear mode 2	Stock Status
2	2467.9	25.09	2856.15	13.59%	2180	13.21%	2471.6	-0.15%	Telecom and oil	RELIANCE	No	Yes	
3	3374.2	30.43	4045.5	16.59%	2926	15.32%	3334.6	1.19%	IT	BOM:532540	No	Yes	
4	2620.6	63.81	2741.6	4.41%	1901.55	37.81%	2590.05	1.18%	FMCG	HINDUNILVR	No	No	Good Stock
5	600.05	13	629.65	4.70%	425	41.19%	595	0.85%	Bank	BOM:500112	No	No	Good Stock
6	2619.25	19.81	2933.8	10.72%	2026	29.28%	2612.8	0.25%	Financial Services	HDFC	No	Yes	
7	712.7	23.63	920	22.53%	588	21.21%	705.55	1.01%	Insurance	BOM:543526	No	Yes	
8	764.6	65.86	860.55	11.15%	628.75	21.61%	756.9	1.02%	Telecom	BHARTIARTL	No	Yes	
9	5977	36.52	8045	25.71%	5220	14.50%	5898.4	1.33%	NBFC	BAJFINNCE	Yes	Yes	
10	1780.5	25.87	1997.55	10.87%	1631	9.17%	1779.5	0.66%	Bank	KOTAKBANK	No	Yes	
11	2153.75	31.53	2210.5	2.57%	1456.8	47.84%	2160.2	-0.30%	Infrastructure	BOM:500510	No	No	Good Stock
12	933.9	15.67	970	3.72%	618.25	51.06%	935.55	-0.18%	Bank	AXISBANK	No	No	Good Stock
13	2912	76.19	3582.9	18.73%	2560	13.75%	2915.95	-0.14%	Paint	ASIANPAINT	No	Yes	
14	8454.2	42.1	9769	13.46%	6536.55	29.34%	8369.2	1.02%	Automobile	MARUTI	No	Yes	
15	1031.05	60.4	1070.95	3.73%	784.8	31.38%	1032.85	-0.17%	Pharma	SUNPHARMA	No	No	Good Stock
16	1391	40.48	3724.2	62.65%	1374.35	1.21%	1387.8	0.23%	Financial Services	BAJAIFINNSV	Yes	Yes	
17	2417.65	68.59	2790	13.35%	1827.15	32.32%	2445.65	-1.14%	Retail	BOM:500114	No	No	
18	7244.95	31.35	7946	8.82%	5157.05	40.49%	7153.35	1.28%	Cement	ULTRACEMCO	No	No	Good Stock
19	19782.3	88.1	21050	6.02%	16000	23.64%	19873.25	-0.46%	FMCG	NESTLEIND	No	Yes	
20	1327.55	16.12	1366.55	2.85%	671.15	97.80%	1319.9	0.58%	Automobile	M&M	No	No	Good Stock
21	120.45	5.13	138.63	13.11%	82.71	45.63%	118.05	2.03%	Infrastructure	BOM:500470	No	No	Good Stock
22	1307	78.07	1340.35	2.49%	1003.5	30.24%	1315.7	-0.66%	Insurance	SBILIFE	No	No	
23	604	85.12	678.8	11.02%	497.05	21.52%	598.4	0.94%	Insurance	HDFCLIFE	No	Yes	
24	2513	98.38	2918.95	13.91%	1988.55	26.37%	2495.5	0.70%	Chemical	PIDILITIND	No	Yes	
25	4289.8	34.73	4293.25	0.08%	4147.45	3.43%	4279.2	0.25%	IT	BOM:540005	No	Yes	
26	4328	65.9	4537	4.61%	3050	41.90%	4299.25	0.67%	FMCG	BRITANNIA	No	No	
27	518.7	57.36	598.15	13.28%	274	89.31%	510.4	1.63%	Cement	BOM:500425	No	No	Good Stock

Sheet2

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Current price	PE Ratio	52 Week High	% Below 52 wee	52 Week Low	% Above 52 We	Yesterday Closir	% Change	Industry	NSE/BSE Code	Bear mode 1	Bear mode 2	Stock Status	Cap Size
2	2467.9	25.09	2856.15	13.59%	2180	13.21%	2471.6	-0.15%	Telecom and oil	RELIANCE	No	Yes		Large Cap
3	3374.2	30.43	4045.5	16.59%	2926	15.32%	3334.6	1.19%	IT	BOM:532540	No	Yes		Large Cap
4	2620.6	63.81	2741.6	4.41%	1901.55	37.81%	2590.05	1.18%	FMCG	HINDUNILVR	No	No	Good Stock	Low Cap
5	600.05	13	629.65	4.70%	425	41.19%	595	0.85%	Bank	BOM:500112	No	No	Good Stock	Low Cap
6	2619.25	19.81	2933.8	10.72%	2026	29.28%	2612.8	0.25%	Financial Services	HDFC	No	Yes		Low Cap
7	712.7	23.63	920	22.53%	588	21.21%	705.55	1.01%	Insurance	BOM:543526	No	Yes		Low Cap
8	764.6	65.86	860.55	11.15%	628.75	21.61%	756.9	1.02%	Telecom	BHARTIARTL	No	Yes		Low Cap
9	5977	36.52	8045	25.71%	5220	14.50%	5898.4	1.33%	NBFC	BAJFINNCE	Yes	Yes		Low Cap
10	1780.5	25.87	1997.55	10.87%	1631	9.17%	1779.5	0.66%	Bank	KOTAKBANK	No	Yes		Low Cap
11	2153.75	31.53	2210.5	2.57%	1456.8	47.84%	2160.2	-0.30%	Infrastructure	BOM:500510	No	No	Good Stock	Low Cap
12	933.9	15.67	970	3.72%	618.25	51.06%	935.55	-0.18%	Bank	AXISBANK	No	No	Good Stock	Low Cap
13	2912	76.19	3582.9	18.73%	2560	13.75%	2915.95	-0.14%	Paint	ASIANPAINT	No	Yes		Low Cap
14	8454.2	42.1	9769	13.46%	6536.55	29.34%	8369.2	1.02%	Automobile	MARUTI	No	Yes		Low Cap
15	1031.05	60.4	1070.95	3.73%	784.8	31.38%	1032.85	-0.17%	Pharma	SUNPHARMA	No	No	Good Stock	Low Cap
16	1391	40.48	3724.2	62.65%	1374.35	1.21%	1387.8	0.23%	Financial Services	BAJAIFINNSV	Yes	Yes		Low Cap
17	2417.65	68.59	2790	13.35%	1827.15	32.32%	2445.65	-1.14%	Retail	BOM:500114	No	No		Low Cap
18	7244.95	31.35	7946	8.82%	5157.05	40.49%	7153.35	1.28%	Cement	ULTRACEMCO	No	No	Good Stock	Low Cap
19	19782.3	88.1	21050	6.02%	16000	23.64%	19873.25	-0.46%	FMCG	NESTLEIND	No	Yes		Low Cap
20	1327.55	16.12	1366.55	2.85%	671.15	97.80%	1319.9	0.58%	Automobile	M&M	No	No	Good Stock	Low Cap
21	120.45	5.13	138.63	13.11%	82.71	45.63%	118.05	2.03%	Infrastructure	BOM:500470	No	No	Good Stock	Low Cap
22	1307	78.07	1340.35	2.49%	1003.5	30.24%	1315.7	-0.66%	Insurance	SBILIFE	No	No		Low Cap
23	604	85.12	678.8	11.02%	497.05	21.52%	598.4	0.94%	Insurance	HDFCLIFE	No	Yes		Low Cap
24	2513	98.38	2918.95	13.91%	1988.55	26.37%	2495.5	0.70%	Chemical	PIDILITIND	No	Yes		Low Cap
25	4289.8	34.73	4293.25	0.08%	4147.45	3.43%	4279.2	0.25%	IT	BOM:540005	No	Yes		Low Cap
26	4328	65.9	4537	4.61%	3050	41.90%	4299.25	0.67%	FMCG	BRITANNIA	No	No		Low Cap
27	518.7	57.36	598.15	13.28%	274	89.31%	510.4	1.63%	Cement	BOM:500425	No	No	Good Stock	Low Cap

## Task 5: Creating Final Organized Data Source and Applying Conditional Formatting

In this task, we will create a new sheet to serve as the final organized data source and apply appropriate conditional formatting to enhance data visualization.

Here's an explanation of each step along with the formula:

1. Create a new sheet: Add a new sheet to your Google Sheets workbook and named it TASK 5

2. Fetch "Good Stock" data: Copy and paste the relevant data from the original sheet into the TASK 5 sheet. Only copy the rows where the "Stock Status" column contains the "Good Stock" value.

Formula to fetch "Good Stock" data:

```
=ArrayFormula(QUERY('Fillterd Data'!A1:P,"SELECT * WHERE O = 'Good Stock'", 1))
```

3 Apply conditional formatting: Use conditional formatting to add color scales to the relevant columns, such as Market Cap, PE Ratio, or any other columns we wish to highlight.

By following these steps and applying the appropriate formulas and conditional formatting, you can create a well-organized TASK 5 sheet that only includes "Good Stock" data and visually presents the relevant information using conditional formatting.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
A1		fx	=ArrayFormula(QUERY('Filterd Data'!A1:P,"SELECT * WHERE O = 'Good Stock' ", 1))													
1		=ArrayFormula(QUERY('Filterd Data'!A1:P,"SELECT * WHERE O = 'Good Stock' ", 11))														
2	HUL	18500.35	2628.0	83.81	2741.8	4.41%	1801.65	37.83%	2986.0	1.85%	1810.65	1.85%	1810.65	1.85%	1810.65	
3	S&P Bank	83431.32	800.05	8.05	820.85	4.70%	435	41.10%	995	0.35%	83431.32	800.05	83431.32	800.05	83431.32	800.05
4	LT	302817.17	2153.75	31.53	2210.5	2.57%	1458.8	47.84%	2180.2	-0.30%	Infrastructure	BOM-50510	No	No	Good Stock	Low Cap
5	Axis Bank	28713.29	933.5	15.67	970	3.72%	818.25	51.05%	935.55	-0.18%	Bank	BOM-50110	No	No	Good Stock	Low Cap
6	Sun pharma	247191.85	1031.05	50.4	1070.65	3.73%	784.8	31.38%	1032.85	-0.17%	Pharma	SUNPHARMA	No	No	Good Stock	Low Cap
7	UltraTech Cement	208675.80	7244.95	31.35	7048	8.82%	5157.05	40.49%	7135.35	1.26%	Cement	ULTRACEMCO	No	No	Good Stock	Low Cap
8	MMB	158785.37	1327.55	18.12	1386.65	2.65%	671.15	97.80%	1319.0	0.56%	Automobile	MMB	No	No	Good Stock	Low Cap
9	Tata Steel	14793.80	120.45	5.13	138.83	13.11%	82.71	45.63%	118.05	2.05%	Infrastructure	BOM-50470	No	No	Good Stock	Low Cap
10	Ambuja Cement	471.80	51.38	56.65	162.2	2.74	88.75	51.05%	518.05	1.50%	Construction	BOM-50150	No	No	Good Stock	Low Cap
11	Bank of Baroda	84585.33	184.9	9.72	167.2	0.24%	89.1	10.57%	181.8	1.71%	Bank	BOM-52114	No	No	Good Stock	Low Cap
12	Grasim Consumer	98789.78	116.75	55.81	985.85	4.07%	880.2	32.88%	914.9	0.20%	FMCG	BOM-52124	No	No	Good Stock	Low Cap
13	Street Connect	70700.03	24025	64.11	27938.75	14.00%	1788.52	34.46%	2384.65	0.71%	Cement	SHEREECM	No	No	Good Stock	Low Cap
14	Eicher Motor	8843.23	3184.9	37.12	3889.85	18.83%	2159.65	48.55%	3103.25	1.99%	Automobile	EICHERMOT	No	No	Good Stock	Low Cap
15	Varun Beverage	73698.48	1134.8	51.22	1432.05	20.76%	557.23	103.65%	1187.3	-4.42%	Food	BOM-440180	No	No	Good Stock	Low Cap
16	Yesbank	57637.94	20.15	45.52	24.75	18.59%	12.11	85.38%	19.9	1.26%	Bank	BOM-53248	No	No	Good Stock	Low Cap
17	PI Industries	40475.83	3282	48.33	3068.45	11.80%	2333.55	36.79%	3292.85	-0.93%	Agrochemical	PIND	No	No	Good Stock	Low Cap
18	TVS	47018.80	999.5	30.03	1177	19.08%	613	94.83%	1005.2	0.57%	Automobile	BOM-52243	No	No	Good Stock	Low Cap
19	Abbott India	2251.00	51.25	5.25	155.65	15.61%	41.35	43.35%	2251.00	0.00%	Pharma	ABBOTTINDIA	No	No	Good Stock	Low Cap
20	Brahmins Industries	43158.47	2220	307.72	2557.45	12.10%	1600.65	18.88%	224.45	0.87%	Consumer	BOM-52124	No	No	Good Stock	Low Cap
21	UPL	38645.40	2082	35.5	3025	12.20%	204.85	32.24%	3877.05	-0.55%	Consumer Elec	POLYCB	No	No	Good Stock	Low Cap
22	Solar Industries	38359.14	4333	63.08	4535.95	4.38%	2160.05	102.83%	4340.15	-0.05%	Defence	BOM-52257	No	No	Good Stock	Low Cap
23	APL Apollo	31477.05	1138	64.9	1193.85	4.85%	771	47.34%	1127.65	0.11%	Steel	BOM-53378	No	No	Good Stock	Low Cap
24	Supreme Industries	31599.92	2451	38.12	2607.65	5.62%	1688.25	47.70%	2452.7	0.34%	Plastic	SUPREMIND	No	No	Good Stock	Low Cap
25	Federal Bank	28278.49	138.45	11.78	142.25	2.57%	82.5	67.82%	135.05	0.25%	Bank	BOM-50459	No	No	Good Stock	Low Cap
26	Sumitomo Chemical	24637.83	463.2	49.9	540.8	8.80%	351.5	40.31%	487.85	1.08%	Agrochemical	SUMICHEM	No	No	Good Stock	Low Cap
27	JKC Cement	23409.39	2000.45	38.07	3948.25	20.45%	2005	44.68%	2005.9	0.19%	Chemical	BOM-52344	No	No	Good Stock	Low Cap
28	LIC Housing Finance	20219.00	122.25	5.85	29.75	29.75%	291.75	37.65%	300.05	0.00%	Bank	BOM-52050	No	No	Good Stock	Low Cap
29	Technocean Technologies	16679.44	139.5	42.35	1736.15	19.45%	147.2	33.65%	1431.15	-0.10%	Automobile	TECHNOVANCE	No	No	Good Stock	Low Cap
30	KTBT	18827.85	668.3	56.82	764.25	8.89%	100.25	53.28%	692.45	0.65%	IT	BOM-42451	No	No	Good Stock	Low Cap
31	Eclife Battery	15554.98	182.35	3.39	194.2	5.84%	130.25	40.38%	182.65	0.11%	Automobile	ANEXIDEIN	No	No	Good Stock	Low Cap
32	KFI Industries	12698.07	1430.05	30.59	1862.45	13.82%	909.2	58.64%	1435.2	0.98%	Consumer Elec	BOM-17589	No	No	Good Stock	Low Cap
33	Finolex Industries	10644.74	173	18.85	204.5	15.40%	128	35.16%	170.9	1.23%	Piping	BOM-50040	No	No	Good Stock	Low Cap
34	Amara Raja Batteries	9847.33	576.5	17.05	668.15	13.72%	438.05	31.61%	590.65	-0.24%	Automobile	AMARAJABAT	No	No	Good Stock	Low Cap
35	Poly Medure Ltd	8594.07	881.5	61.12	1044.4	14.64%	652.3	38.67%	897.9	-0.11%	Healthcare	BOM-31738	No	No	Good Stock	Low Cap
36	Finolex Cable	8493.86	563.4	15.58	663.9	8.82%	343.65	81.11%	538.85	0.23%	Consumer Elec	FINCABLES	No	No	Good Stock	Low Cap
37	Grundals India	7705.00	31.95	3.95	38.75	10.25%	12.5	45.00%	31.95	0.00%	Bank	BOM-52124	No	No	Good Stock	Low Cap
38	ICICI Bank	7445.47	870.35	20.08	948	8.85%	842	38.02%	881.6	1.40%	Bank	BOM-52174	No	No	Good Stock	Low Cap
39	Reliance automotve	7224.34	1465.1	37.05	3709.65	8.60%	1945	87.81%	3451.8	0.10%	automobile	BOM-42470	No	No	Good Stock	Low Cap
40	Cera Sanitaryware	6919.67	5294	37	6087.65	12.75%	3518.5	50.46%	5320	-0.49%	Ceramic	BOM-52434	No	No	Good Stock	Low Cap
41	Data Pattern	6387.33	1237.1	59.85	1480	17.09%	575	113.41%	1161.25	5.57%	Technology	BOM-44348	No	No	Good Stock	Low Cap
42	Somany home innovations	3335.10	462.25	33.38	480.4	3.78%	258.95	78.51%	473.2	-2.31%	Kitchen Appliance	BOM-42405	No	No	Good Stock	Low Cap
43	Mold tech	3279.81	988.1	41.73	1057.85	8.56%	648.05	52.47%	991.35	-0.33%	Technology	BOM-53380	No	No	Good Stock	Low Cap
44	Goldman Internationals	1794.80	165.55	17.83	209.41	20.64%	110.75	41.80%	186.4	0.09%	Retail	BOM-52879	No	No	Good Stock	Low Cap

# Report Dashboarding

## *Insights from the Stock Analysis Dashboard:*

**Stocks Analyzed:** The dashboard provides a count of the stocks analyzed, offering an overview of the total number of stocks included in the analysis. This insight helps assess the scope and breadth of the analysis, providing an understanding of the sample size.

**Total Market Cap:** The total market capitalization scorecard displays the aggregate value of all the stocks analyzed. This insight provides an overview of the overall size and value of the market represented by the selected stocks. It helps gauge the magnitude and significance of the included stocks in terms of their market capitalization.

**Average PE Ratio:** The average PE ratio scorecard showcases the average Price-to-Earnings ratio of the selected stocks. This insight enables an assessment of the valuation levels of the stocks in the analysis. A higher average PE ratio may indicate a relatively higher valuation, while a lower ratio may suggest potentially undervalued stocks.

**Closing Price (Yesterday):** The closing price scorecard presents the sum of the closing prices of the selected stocks from the previous day. This insight provides a cumulative view of the total value of the stocks based on their closing prices. It helps understand the overall value and performance of the selected stocks in the recent trading session.

### **Top 5 Stocks by Market Cap:**

- This section highlights the top stocks based on market capitalization.
- It may include a bar chart visualizing the industries on the x-axis and the corresponding market capitalization on the y-axis in descending order.

- The chart provides insights into the industries with the highest market capitalization.

**Industry vs. Market Cap Bar Chart:** The bar chart illustrates the industry-wise distribution of market capitalization in descending order. This insight allows for a comparison of market cap across different industries, providing an understanding of which industries have larger market capitalizations. It helps identify the sectors that contribute significantly to the overall market value.

**Industry Insights Stacked Combo Chart:** The stacked combo chart showcases the price performance of stocks across industries by comparing the current price with the 52-week high and low values. This insight enables the identification of potential trends, volatility, and relative performance within different industries. It helps spot industries that have experienced significant price growth or decline over the past year.

Overall, the Stock Analysis Dashboard provides insights into the count of analyzed stocks, total market capitalization, average PE ratio, closing prices, industry-wise market cap distribution, and price performance across different industries. These insights will aid in making informed decisions, identifying market trends, and assessing the relative performance of stocks within specific sectors.

# Stock Analysis Dashboard

Total Stock  
43

Total Market Cap  
₹3,677,862.99

Average PE Ratio  
35.45

Closing  
₹107,542.35

## TOP STOCK'S

### Market Cap (In Rs Cr.)

	Stock	Market Cap (In Rs Cr.)
1.	HUL	616,301.33
2.	SBI Bank	535,431.32
3.	L&T	302,617.17
4.	Axis Bank	287,213.29
5.	Sun pharma	247,191.65

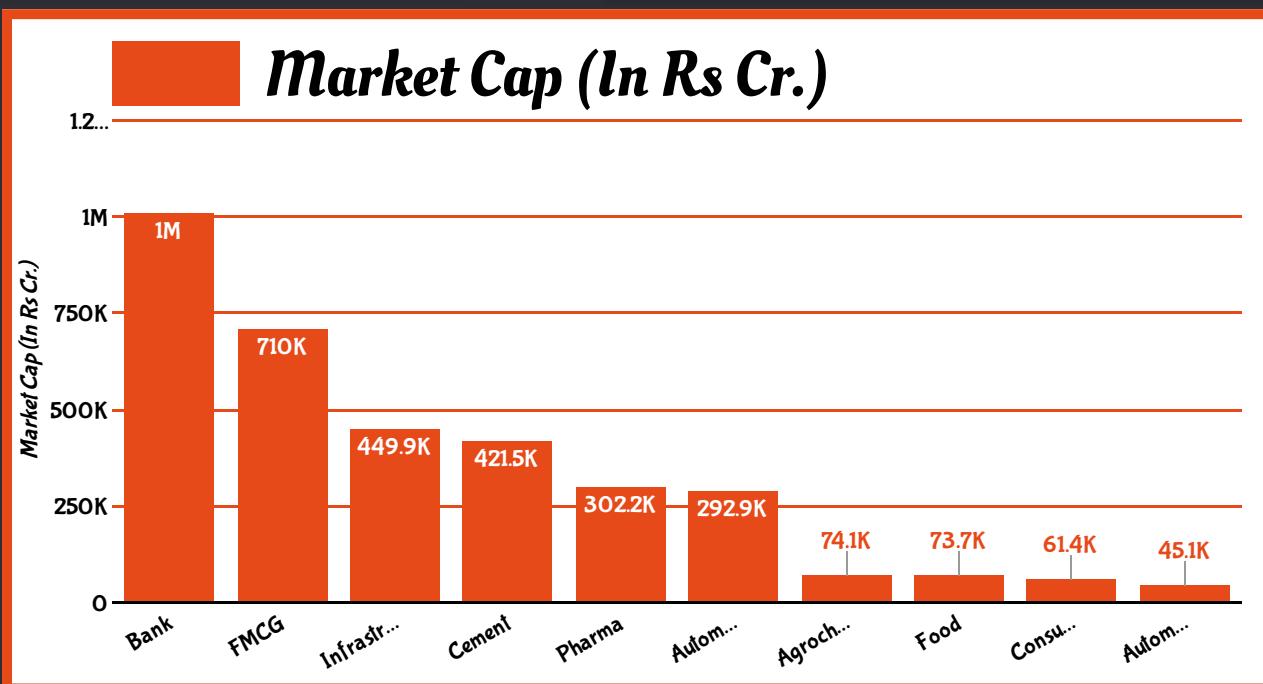
1 - 5 / 43



## Industry

## Stock

### Market Cap (In Rs Cr.)



Current price

52 Week High

52 Week Low

