

ASSIGNMENT-3

Data Analytics with IBM Cognos

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Challenge:

Upload the dataset to MySQL and integrate with Tableau, delete the unnecessary columns, explore and visualize the dataset using Tableau.

Upload the dataset to MYSQL.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigation

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Query 1

```
create database supermarket;
use supermarket;
select * from supermarket;
```

Result Grid

Invoice ID	Branch	City	Customer Type	Gender	Product line	Unit price	Quantity	Tax 5%	Total	Date	Time	Payment	cogs	gross margin percentage	gross income	Rating
750-67-8408	A	Yongon	Member	Female	Health and beauty	74.69	7	26.1415	548.9715	1/5/2019	13:08	Evallet	522.83	4.761904762	26.1415	6.1
228-21-3861	C	Naypyitaw	Normal	Female	Electronic accessories	15.2800	5	3.6200	80.220	3/8/2019	20:29	Cash	76.4	4.761904762	3.62	5.6
631-41-3108	A	Yongon	Normal	Male	Home and Lifestyle	46.3300	7	16.2155	346.3255	3/3/2019	13:23	Credit card	324.31	4.761904762	16.2155	7.4
123-19-1176	A	Yongon	Member	Male	Health and beauty	58.2200	8	23.2880	489.048	1/27/2019	20:33	Evallet	465.76	4.761904762	23.288	6.4
375-73-7910	A	Yongon	Normal	Male	Sports and travel	86.3100	7	30.2085	634.3785	2/8/2019	10:37	Evallet	604.17	4.761904762	30.2085	5.3
699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	85.3900	7	29.8865	627.8165	3/25/2019	18:30	Evallet	597.73	4.761904762	29.8865	4.1
355-33-5943	A	Yongon	Member	Female	Electronic accessories	68.8400	6	20.6520	433.6920	2/25/2019	14:36	Evallet	413.04	4.761904762	20.652	5.8
315-22-2665	C	Naypyitaw	Normal	Female	Home and Lifestyle	73.5600	10	26.7800	772.3800	2/2/2019	11:28	Evallet	735.6	4.761904762	26.78	8
665-22-9167	A	Yongon	Member	Female	Health and beauty	36.2600	2	3.6260	76.146	1/10/2019	17:15	Credit card	72.52	4.761904762	3.626	7.2
692-42-5582	B	Mandalay	Member	Female	Food and beverages	54.8400	3	8.2260	172.7460	2/20/2019	13:27	Credit card	164.52	4.761904762	8.226	5.9
351-42-1022	B	Mandalay	Member	Female	Fashion accessories	14.4800	4	2.8960	60.8160	2/6/2019	18:07	Evallet	57.92	4.761904762	2.896	4.5
529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.5100	4	5.1020	107.1420	3/9/2019	17:03	Cash	102.04	4.761904762	5.102	6.8
364-44-0515	A	Yongon	Normal	Female	Electronic accessories	46.9500	5	11.7375	246.4875	2/12/2019	10:25	Evallet	224.75	4.761904762	11.7375	7.1
252-36-2699	A	Yongon	Normal	Male	Food and beverages	43.1300	10	21.5950	453.4950	2/7/2019	16:48	Evallet	431.9	4.761904762	21.595	8.2
829-34-3910	A	Yongon	Normal	Female	Health and beauty	71.3800	10	35.6900	749.4900	3/29/2019	19:21	Cash	713.8	4.761904762	35.69	5.7
299-46-1805	B	Mandalay	Member	Female	Sports and travel	93.7200	6	28.1160	590.4360	1/15/2019	16:19	Cash	562.32	4.761904762	28.116	4.5
656-65-9249	A	Yongon	Member	Female	Health and beauty	68.9300	7	24.1255	566.5555	3/11/2019	11:03	Credit card	492.51	4.761904762	24.1255	4.6
326-42-1586	A	Yongon	Normal	Male	Food and beverages	72.6100	6	21.7830	457.4430	1/1/2019	10:39	Credit card	435.66	4.761904762	21.783	6.9
319-30-3246	B	Mandalay	Normal	Female	Home and Lifestyle	40.2000	2	4.0300	84.6300	3/11/2019	15:30	Evallet	80.6	4.761904762	4.03	4.4
300-71-4605	C	Naypyitaw	Member	Male	Electronic accessories	86.0400	5	21.5100	451.7100	2/25/2019	11:24	Evallet	430.2	4.761904762	21.51	4.8
371-65-5789	B	Mandalay	Normal	Male	Health and beauty	87.9800	3	13.1970	277.1370	3/5/2019	10:40	Evallet	263.94	4.761904762	13.197	5.1
179-34-4619	B	Mandalay	Normal	Male	Home and Lifestyle	33.2000	2	3.3200	69.7200	3/15/2019	12:29	Credit card	66.4	4.761904762	3.32	4.4
636-48-8204	A	Yongon	Normal	Male	Electronic accessories	34.5600	5	8.6400	181.4400	2/17/2019	11:15	Evallet	172.8	4.761904762	8.64	5.9
549-59-1358	A	Yongon	Member	Male	Sports and travel	88.6300	3	13.2945	279.1845	3/2/2019	17:36	Evallet	265.89	4.761904762	13.2945	6
273-63-5010	A	Yongon	Member	Female	Home and Lifestyle	52.9300	8	21.0360	441.7560	3/2/2019	19:28	Credit card	430.72	4.761904762	21.036	8.5
649-29-6775	B	Mandalay	Normal	Male	Fashion accessories	33.5200	1	1.6760	35.1960	2/8/2019	15:31	Cash	33.52	4.761904762	1.676	6.7
189-17-4241	A	Yongon	Normal	Female	Fashion accessories	87.6700	2	8.7670	184.1070	3/10/2019	12:17	Credit card	175.34	4.761904762	8.767	7.7
146-64-6061	B	Mandalay	Normal	Female	Food and beverages	88.3600	5	22.0900	463.8900	1/25/2019	18:48	Cash	441.8	4.761904762	22.09	8.6
146-42-7243	A	Yongon	Normal	Male	Health and beauty	24.8900	9	11.2005	235.2105	3/15/2019	15:36	Cash	224.01	4.761904762	11.2005	7.4

supermarket 3 x

Output

Actor Action

- 40 14:31:13 Use supermarket
- 41 14:31:15 select * from supermarket LIMIT 0, 1000

Message

Rows affected

1000 rows returned

Duration / Fetch

0.000 sec

0.000 sec / 0.000 sec

Tableau - Book1

File Data Server Window Help

supermarket (supermarket)

Connections

- localhost
- MySQL

Database

- supermarket

Table

- supermarket

15 fields 1000 rows

Need more data? Drag tables here to relate them. Learn more

Name	Branch	City	Customer type	Gender	Product line	Unit price	Quantity	Tax 5%	Total	Date	Payment	Cogs
supermarket	Yongon	Member	Female	Health and beauty	74.6900	7	26.1415	548.972	1/5/2019	13:08	Evallet	522.8
supermarket	C	Naypyitaw	Normal	Female	Electronic accessories	15.2800	5	3.6200	80.220	3/8/2019	Cash	76.4
supermarket	A	Yongon	Normal	Male	Home and Lifestyle	46.3300	7	16.2155	340.526	3/3/2019	Credit card	324.3
supermarket	A	Yongon	Member	Male	Health and beauty	58.2200	8	23.2880	489.048	1/27/2019	Evallet	465.7
supermarket	C	Naypyitaw	Normal	Male	Electronic accessories	85.3900	7	29.8865	627.617	3/25/2019	Evallet	597.7
supermarket	A	Yongon	Member	Female	Electronic accessories	68.8400	6	20.6520	433.692	2/25/2019	Evallet	413.0
supermarket	C	Naypyitaw	Normal	Female	Home and Lifestyle	73.5600	10	26.7800	772.380	2/2/2019	Evallet	735.6
supermarket	A	Yongon	Member	Female	Health and beauty	36.2600	2	3.6260	76.146	1/10/2019	Credit card	72.5
supermarket	B	Mandalay	Member	Female	Food and beverages	54.8400	3	8.2260	172.746	2/20/2019	Credit card	164.5
supermarket	B	Mandalay	Member	Female	Fashion accessories	14.4800	4	2.8960	60.816	2/6/2019	Evallet	57.9
supermarket	B	Mandalay	Member	Male	Electronic accessories	25.5100	4	5.1020	107.142	3/9/2019	Cash	102.0
supermarket	A	Yongon	Normal	Female	Electronic accessories	46.9500	5	11.7375	246.488	2/12/2019	Evallet	234.7
supermarket	A	Yongon	Normal	Male	Food and beverages	43.1900	10	21.5950	453.495	2/7/2019	Evallet	431.9
supermarket	A	Yongon	Normal	Female	Health and beauty	71.3800	10	35.6900	749.490	3/29/2019	Cash	713.8
supermarket	B	Mandalay	Member	Female	Sports and travel	93.7200	6	28.1160	590.436	1/15/2019	Cash	562.3
supermarket	A	Yongon	Member	Female	Health and beauty	68.9300	7	24.1255	506.636	3/11/2019	Credit card	482.1
supermarket	A	Yongon	Normal	Male	Sports and travel	72.6300	6	21.7830	457.443	1/1/2019	Credit card	435.6
supermarket	A	Yongon	Normal	Male	Food and beverages	54.6700	3	8.2005	172.211	1/21/2019	Credit card	164.5
supermarket	B	Mandalay	Normal	Female	Home and Lifestyle	40.3000	2	4.0300	84.630	3/11/2019	Evallet	80.6
supermarket	C	Naypyitaw	Member	Male	Electronic accessories	86.0400	5	21.5100	451.710	2/25/2019	Evallet	430.2

we can delete time and invoice id from the taken dataset

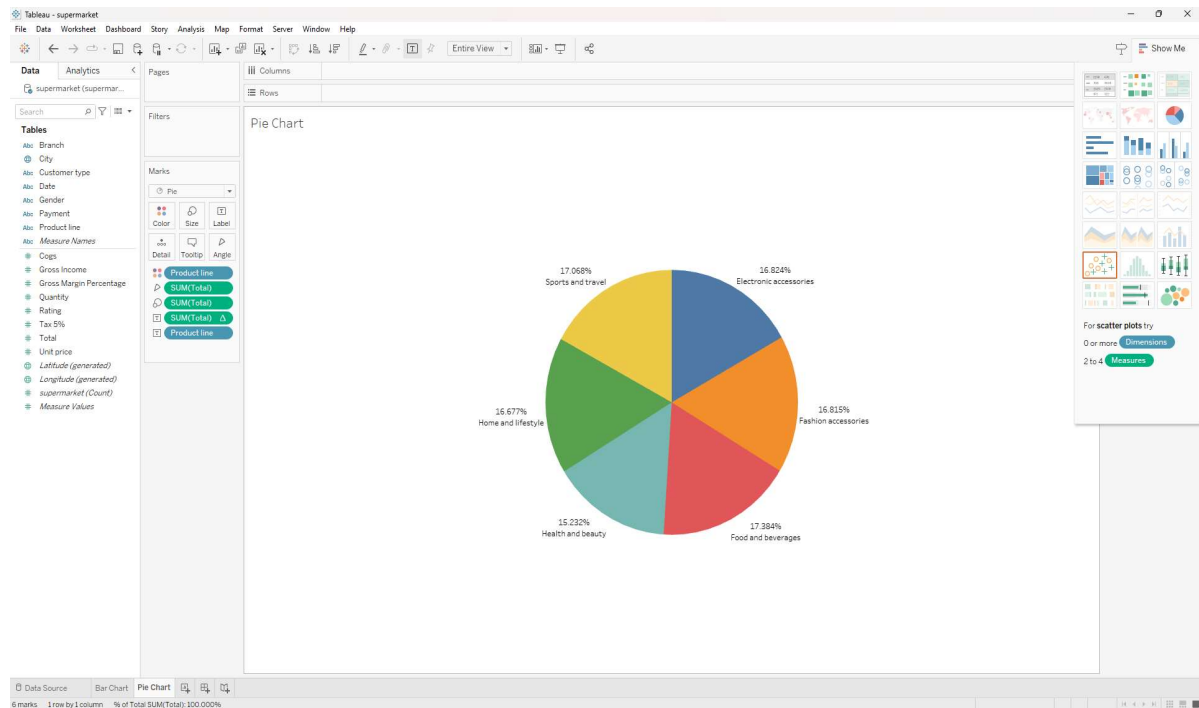


The screenshot displays the Tableau Desktop interface for a dataset named 'supermarket'. The main view is a bar chart titled 'Bar Chart'. The x-axis is labeled 'Product line' and the y-axis is labeled 'Total' (representing SUM(Total)). The chart shows the gross income for six product categories, with the percentage of total gross income for each category displayed above the bars.

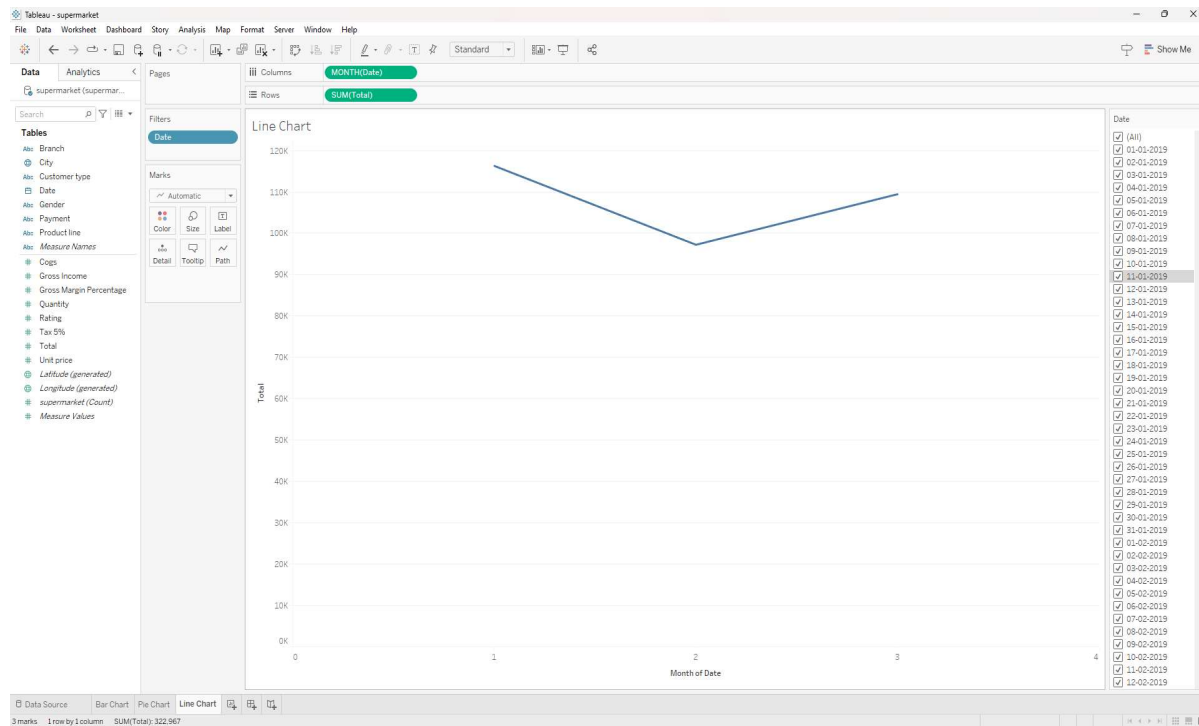
Product line	Gross Income (%)
Electronic accessories	16.824%
Fashion accessories	16.815%
Food and beverages	17.384%
Health and beauty	15.232%
Home and lifestyle	16.677%
Sports and travel	17.068%

The interface includes a sidebar on the left with the 'Data' pane showing the 'supermarket' data source. The 'Tables' pane lists various fields, including 'Product line', 'Gross Income', and 'SUM(Total)'. The 'Marks' card shows 'Color' set to 'Product line' and 'Label' set to 'SUM(Total)'. The 'Columns' shelf contains 'Product line' and the 'Rows' shelf contains 'SUM(Total)'.

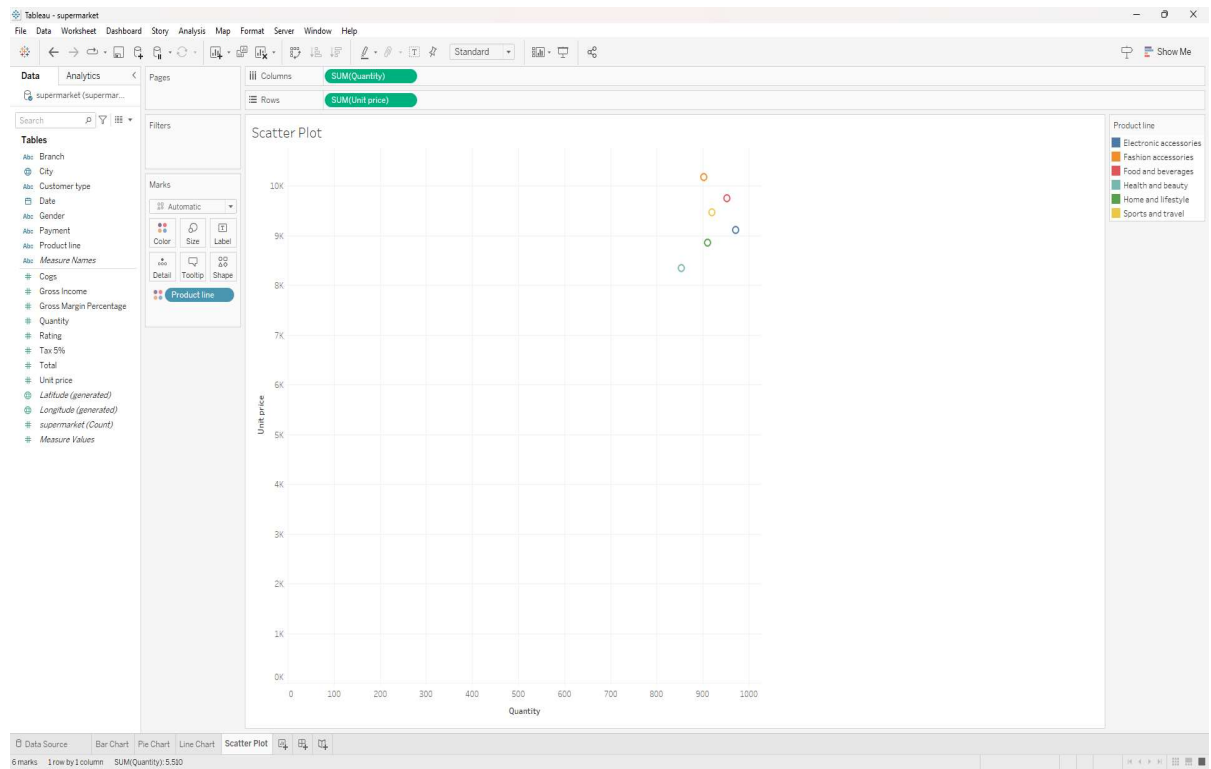
2 Pie Chart



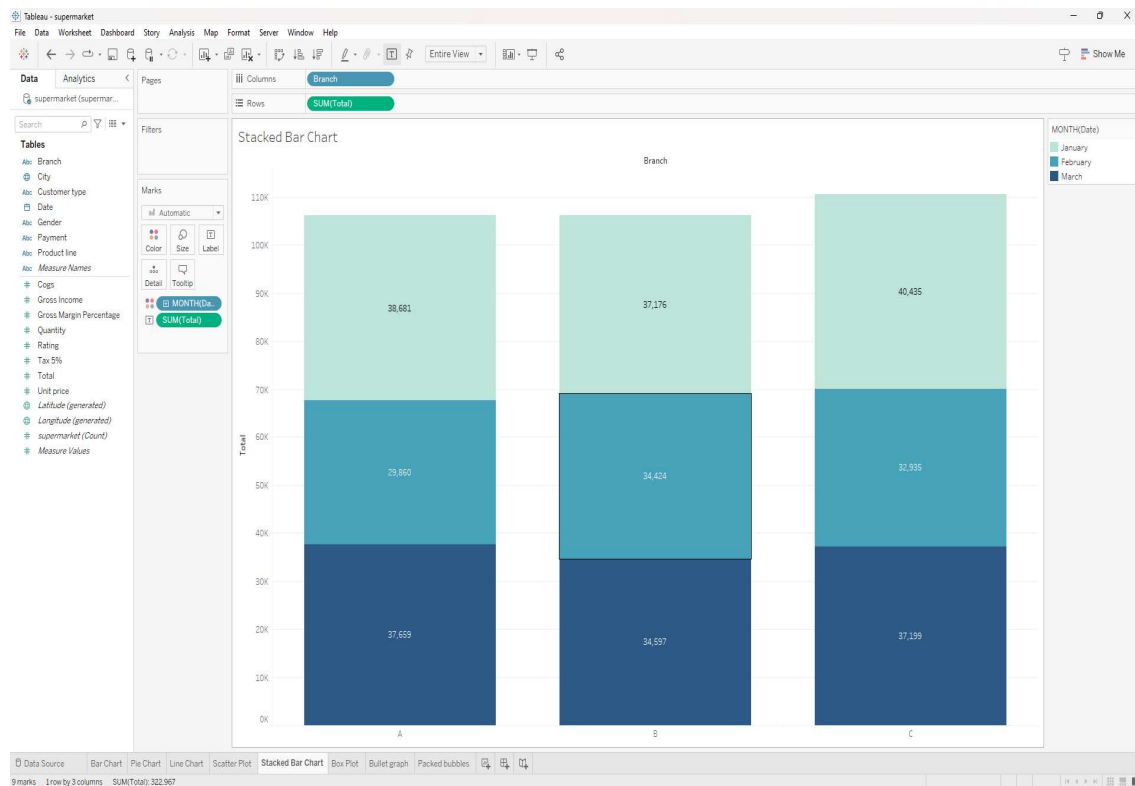
3) Line Chart



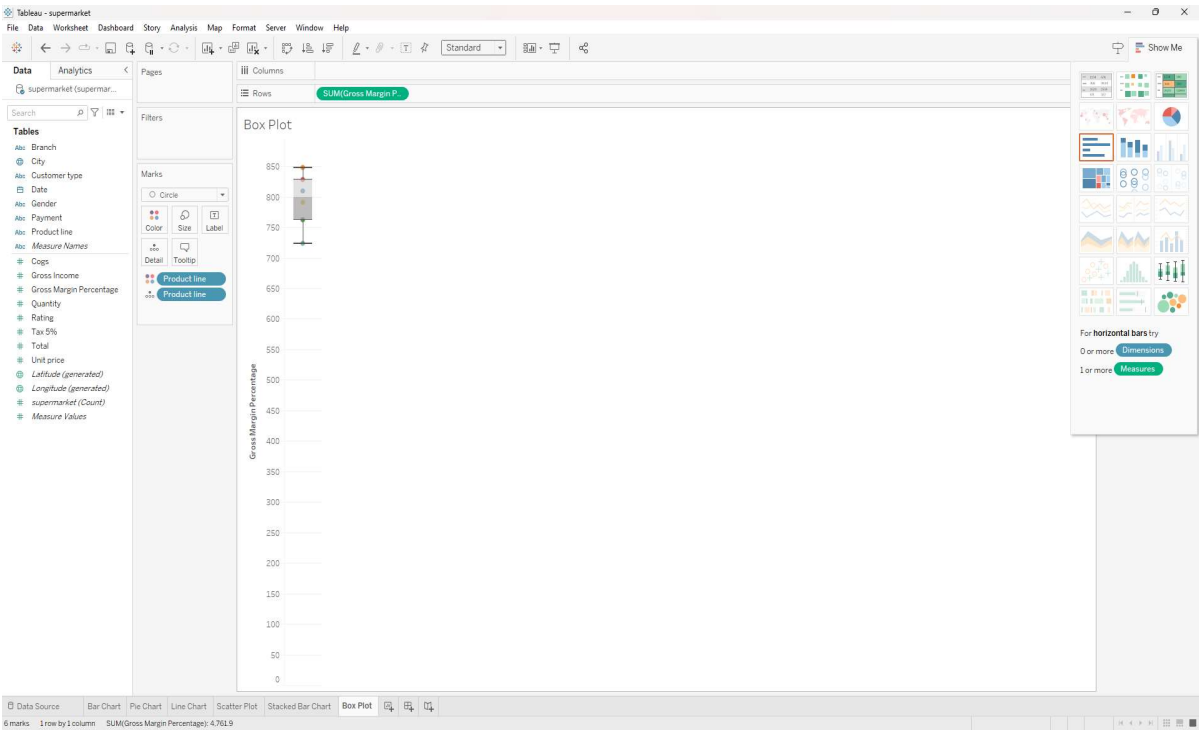
4) Scatter Plot



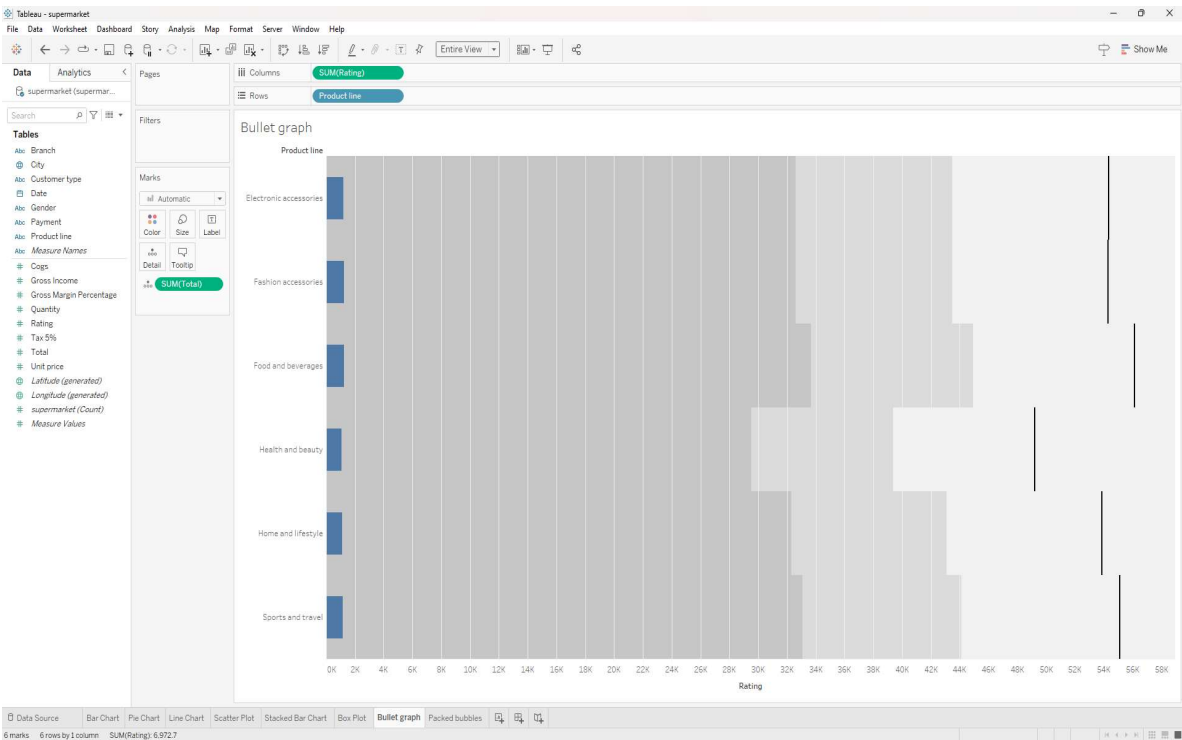
5) Stacked Bar Chart



6) Box Plot



7) Bullet graph



8) Packed bubbles

