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## DATA ANALYTICS WITH TABLEAU

### ASSIGNMENT-3

#### 1. UPLOADING DATASET IN MYSQL & DELETING UNNECESSARY COLUMNS:

The screenshot shows the MySQL Workbench interface. The 'Query 1' window contains the following SQL queries:

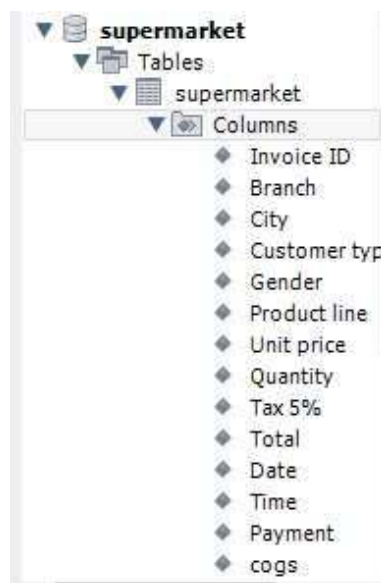
```
1 use supermarket;
2 select * from supermarket;
3
4 alter table supermarket
5 drop column `Customer type`;
```

The 'Result Grid' displays the following data:

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
581234	Supermarket	London	Customer type	Female	Beauty	74.69	7	26.1415	548.9715	1/5/2019	13:08	Ewallet	522.83	4.761904762	26.1415	9.1
581235	Supermarket	London	Customer type	Female	Accessories	15.28	5	3.82	80.22	3/8/2019	10:29	Cash	76.4	4.761904762	3.82	9.6
581236	Supermarket	London	Customer type	Female	Lifestyle	46.33	7	16.2155	340.5255	3/3/2019	13:23	Credit card	324.31	4.761904762	16.2155	7.4
581237	Supermarket	London	Customer type	Female	Beauty	58.22	8	23.288	489.048	1/27/2019	20:33	Ewallet	465.76	4.761904762	23.288	8.4
581238	Supermarket	London	Customer type	Female	Travel	84.11	7	21.285	624.2755	7/8/2019	10:27	Ewallet	604.17	4.761904762	21.285	5.3

The 'Information' window shows the 'Action Output' for the queries:

#	Time	Action	Message	Duration / Fetch
1	11:21:45	use supermarket	0 row(s) affected	0.000 sec
2	11:21:45	select * from supermarket LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.016 sec
3	11:21:45	alter table supermarket drop column `Customer type`	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
4	11:21:49	use supermarket	0 row(s) affected	0.000 sec
5	11:21:49	select * from supermarket LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.000 sec



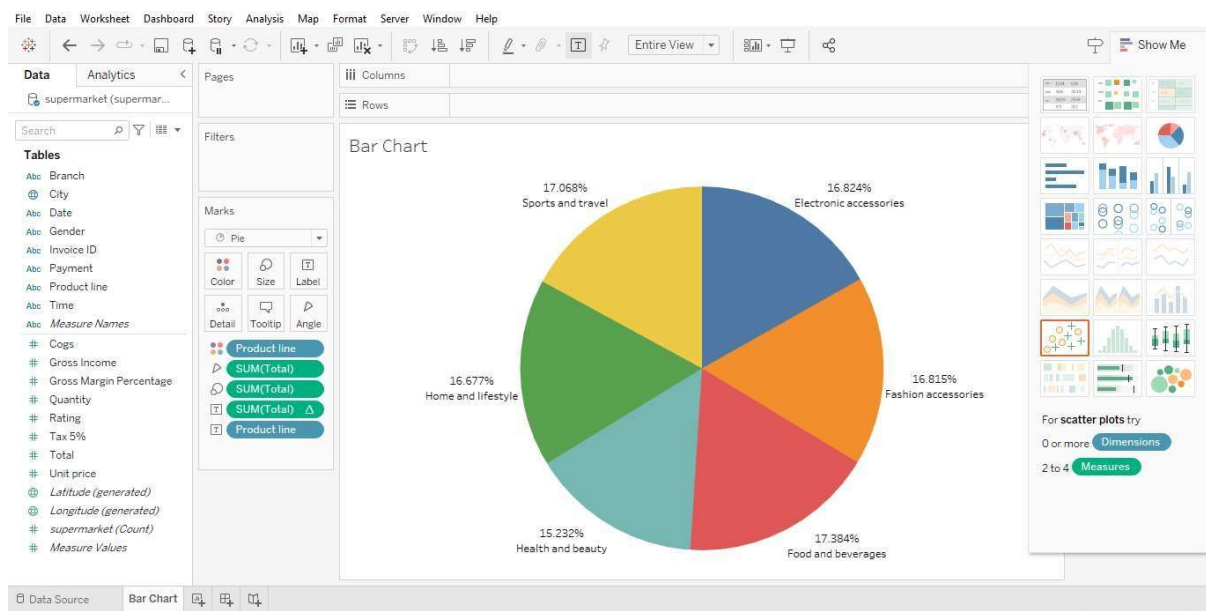
## 2. LINKING TABLEAU WITH MY SQL:

The screenshot shows the Tableau Desktop interface. On the left, the 'Connections' pane shows a 'localhost MySQL' connection. Below it, the 'Database' pane shows the 'supermarket' database. The 'Table' pane lists 'supermarket', 'New Custom SQL', 'New Union', and 'New Table Extension'. The main workspace displays 'supermarket (supermarket)' with a 'Connection' dropdown set to 'Live' and 'Extract'. A 'Need more data?' prompt is visible. At the bottom, a data preview table shows 16 fields and 1000 rows. The table has columns: Invoice ID, Branch, City, Gender, Product line, and Unit price. The data is as follows:

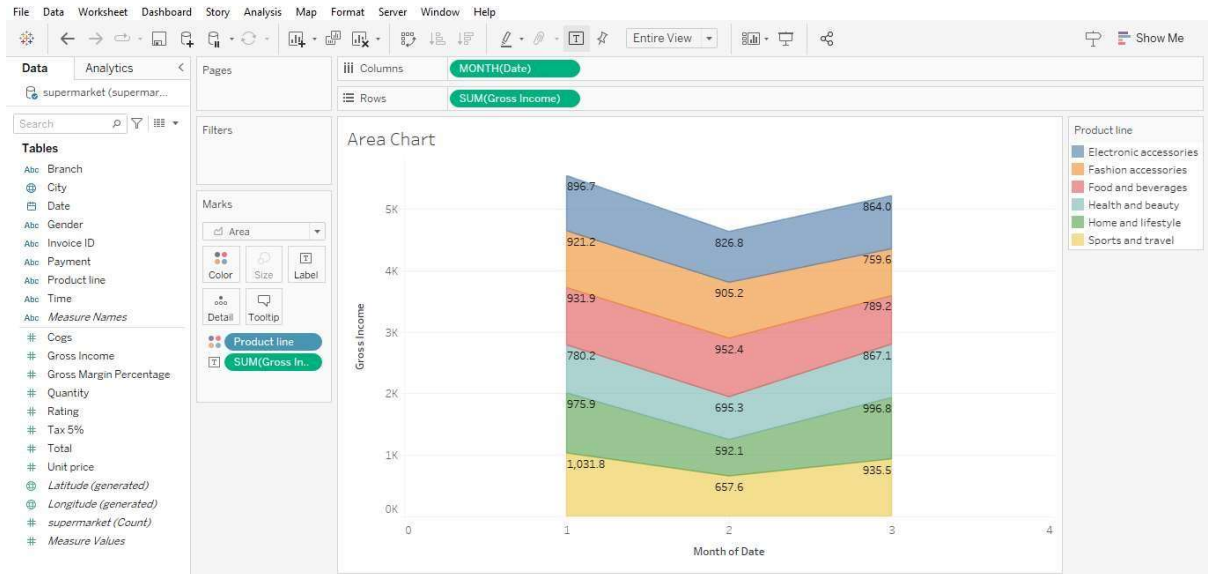
Invoice ID	Branch	City	Gender	Product line	Unit price
750-67-8428	A	Yangon	Female	Health and beauty	74.6900
226-31-3081	C	Naypyitaw	Female	Electronic accessories	15.2800
631-41-3108	A	Yangon	Male	Home and lifestyle	46.3300
123-19-1176	A	Yangon	Male	Health and beauty	58.2200
373-73-7910	A	Yangon	Male	Sports and travel	86.3100

## EXPLORATION AND VISUALIZATION:

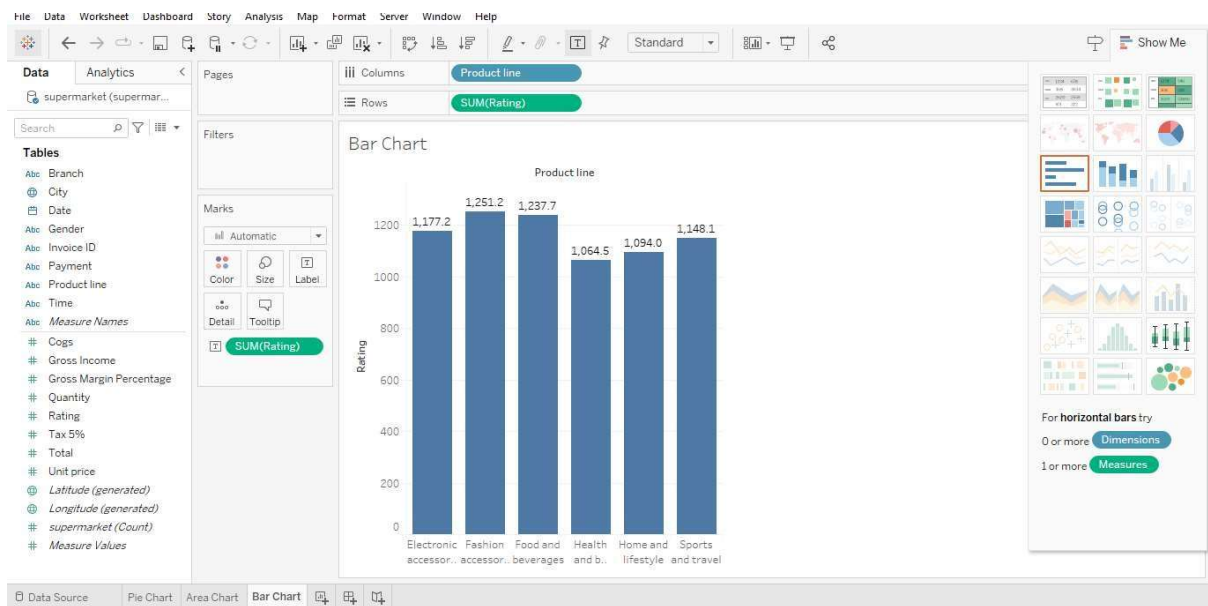
### 1. PIE CHART:



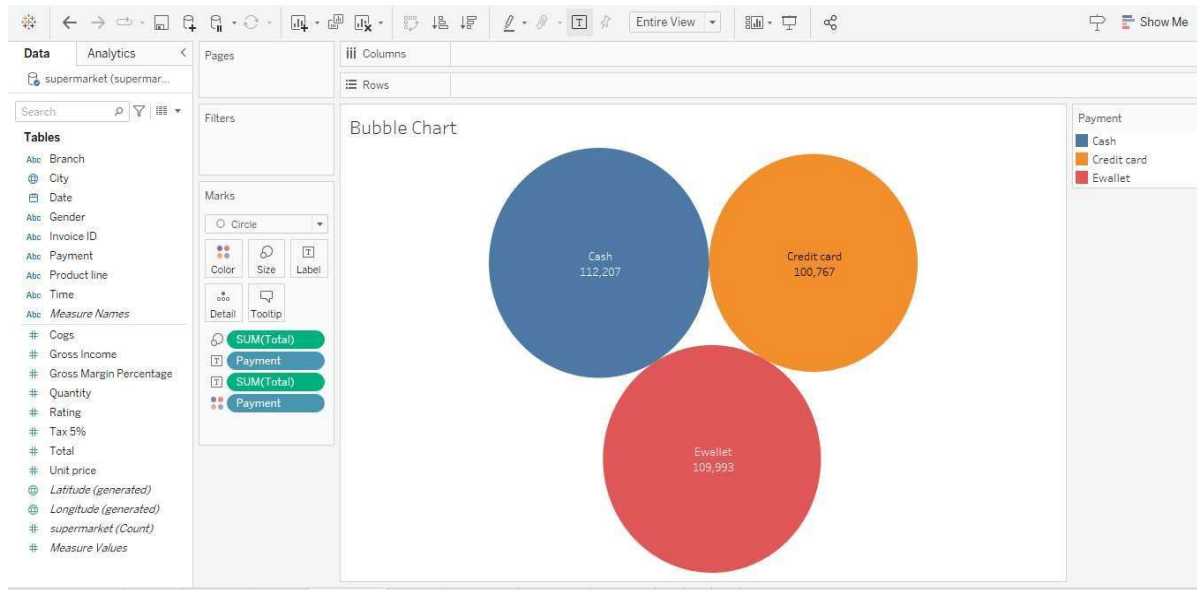
## 2. AREA CHART:



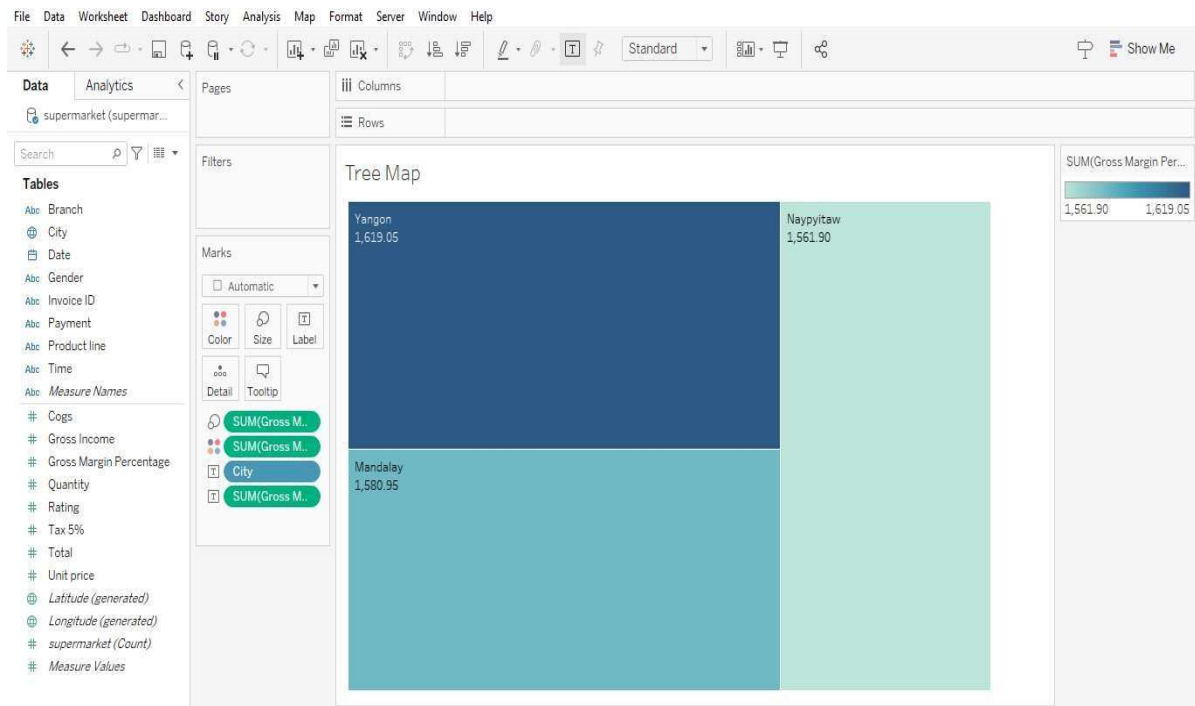
## 3. BAR CHART:



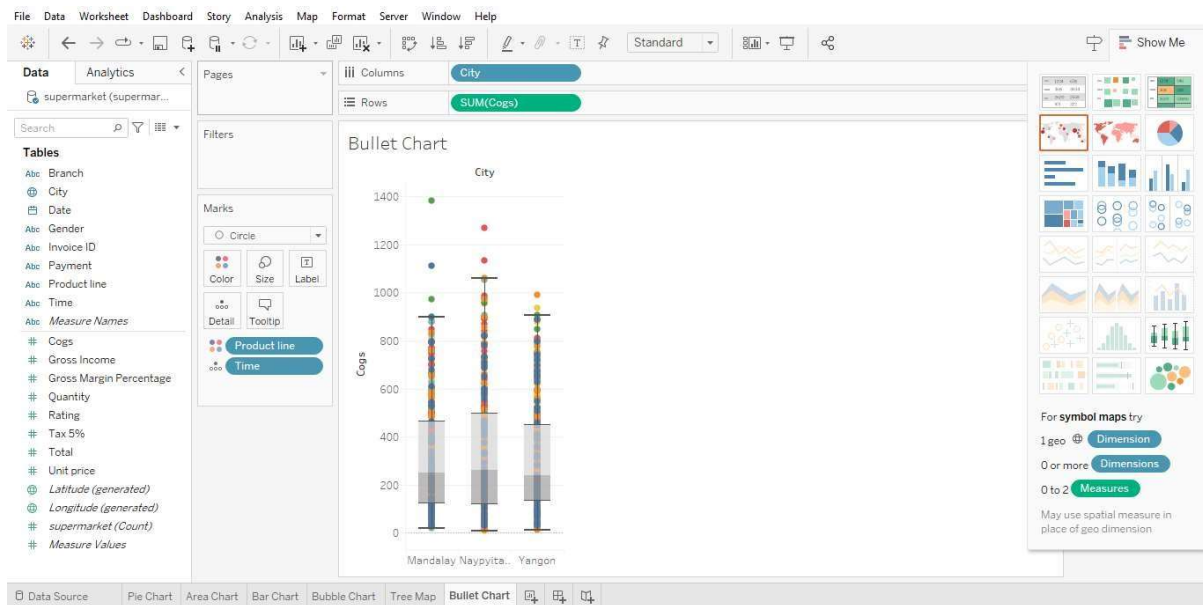
## 4. BUBBLE CHART:



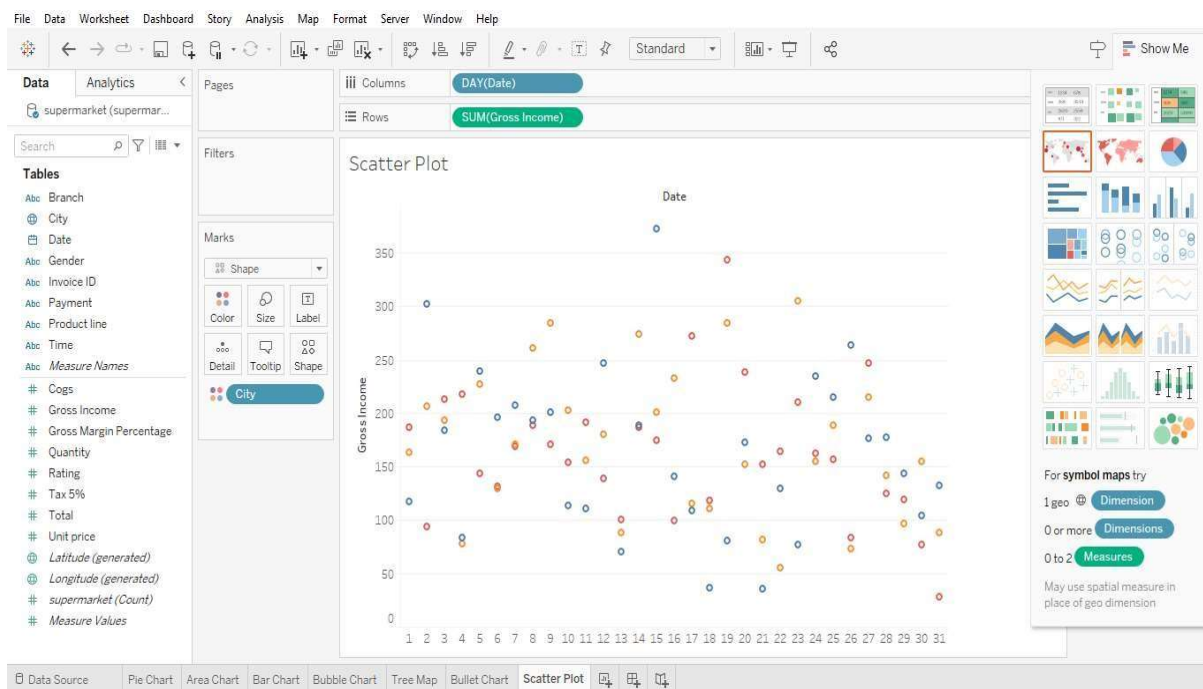
## 5. TREE MAP:



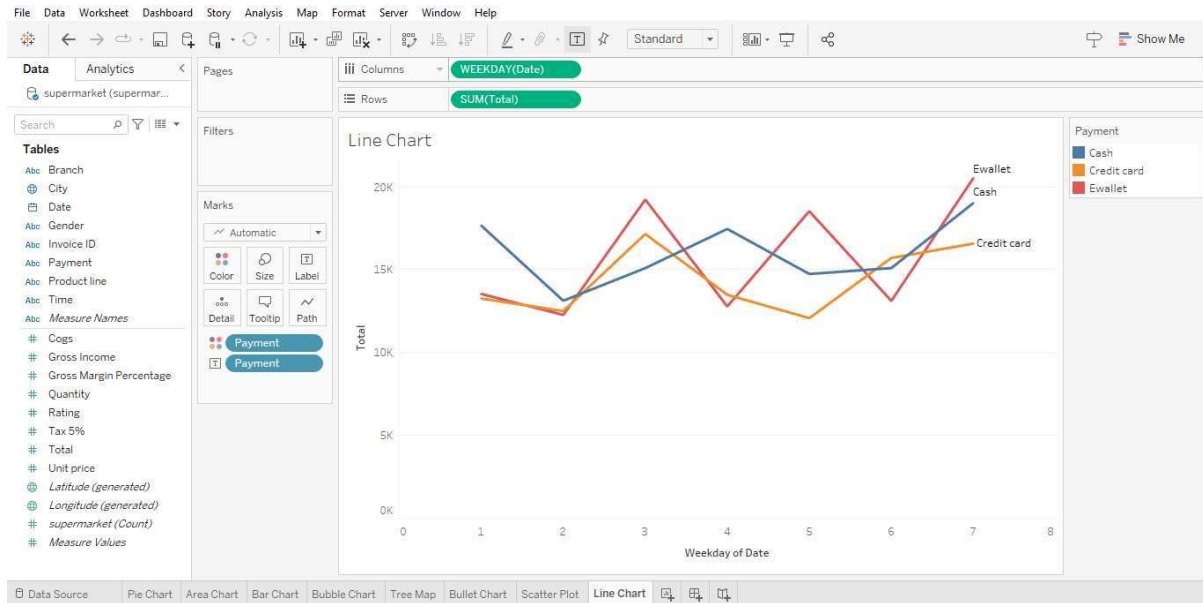
## 6. BULLET CHART:



## 7. SCATTER PLOT:



## 8. LINE CHART:



## 9. STACKED BAR CHART:

