

Assignment 3

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Uploading Data Set to MYSQL:

The screenshot displays a MySQL database management tool interface. The left sidebar shows the 'SCHEMAS' pane with a tree view containing 'jayaramdb', 'supermarket', and 'sys'. The 'supermarket' database is selected, and the 'sample' table is highlighted. The main window shows the 'sample' table with 18 rows of data. The columns are: Invoice ID, Branch, City, Customer type, Gender, Product line, Unit price, Quantity, Tax 5%, Total, Date, Time, Payment, cogs, and gross margin percentage. The data is displayed in a grid format. The bottom pane shows the 'Action Output' for the query 'SELECT * FROM supermarket.supersample LIMIT 0, 1000', indicating that 1000 rows were returned.

Invoice ID	Branch	City	Customer type	Gender	Product line	Unit price	Quantity	Tax 5%	Total	Date	Time	Payment	cogs	gross margin percentage
750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7	26.1415	548.9715	1/5/2019	13:08	Ewallet	522.83	4.76190476
226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	15.28	5	3.82	80.22	3/8/2019	10:29	Cash	76.4	4.76190476
631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33	7	16.2155	340.5255	3/3/2019	13:23	Credit card	324.31	4.76190476
123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8	23.288	489.048	1/27/2019	20:33	Ewallet	465.76	4.76190476
373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	2/8/2019	10:37	Ewallet	604.17	4.76190476
699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	85.39	7	29.8865	627.6165	3/25/2019	18:30	Ewallet	597.73	4.76190476
355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84	6	20.652	433.692	2/25/2019	14:36	Ewallet	413.04	4.76190476
315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56	10	36.78	772.38	2/24/2019	11:38	Ewallet	735.6	4.76190476
665-32-9167	A	Yangon	Member	Female	Health and beauty	36.26	2	3.626	76.146	1/10/2019	17:15	Credit card	72.52	4.76190476
692-92-5582	B	Mandalay	Member	Female	Food and beverages	54.84	3	8.226	172.746	2/20/2019	13:27	Credit card	164.52	4.76190476
351-62-0822	B	Mandalay	Member	Female	Fashion accessories	14.48	4	2.896	60.816	2/6/2019	18:07	Ewallet	57.92	4.76190476
529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.51	4	5.102	107.142	3/9/2019	17:03	Cash	102.04	4.76190476
365-64-0515	A	Yangon	Normal	Female	Electronic accessories	46.95	5	11.7375	246.4875	2/12/2019	10:25	Ewallet	234.75	4.76190476
252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19	10	21.595	453.495	2/7/2019	16:48	Ewallet	431.9	4.76190476
829-34-3910	A	Yangon	Normal	Female	Health and beauty	71.38	10	35.69	749.49	3/29/2019	19:21	Cash	713.8	4.76190476

Selecting Specific columns from the Dataset using MYSQL:

Navigator

SCHEMAS

Filter objects

- jayaramdb
 - supermarket**
 - Tables
 - sample
 - Columns
 - Indexes
 - Foreign Keys
 - Triggers
 - Views
 - Stored Procedures
 - Functions
 - superstore
 - sys

Administration Schemas

Information

Table: sample

Columns:

Invoice ID	text
Branch	text
City	text
Customer	text
type	text
Gender	text
Product line	text
Unit price	double
Quantity	int
Tax 5%	double
Total	double
Date	text
Time	text
Payment	text
cogs	double
gross margin	double

Object Info Session

supermarket x

Limit to 1000 rows

```

1 use supermarket;
2 select * from sample;
3 select 'Invoice ID','Product line' from sample;
4
5

```

Result Grid

	Invoice ID	Product line
▶	Invoice ID	Product line
	Invoice ID	Product line
	Invoice ID	Product line
	Invoice ID	Product line
	Invoice ID	Product line
	Invoice ID	Product line
	Invoice ID	Product line
	Invoice ID	Product line
	Invoice ID	Product line
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	Invoice ID	Product line
	Invoice ID	Product line
	Invoice ID	Product line
	Invoice ID	Product line

sample 8 Result 9 x

Output

Action Output

#	Time	Action
✓	22 11:06:25	use supermarket
✓	23 11:06:25	select * from sample LIMIT 0, 1000
✓	24 11:06:25	select 'Invoice ID' from sample LIMIT 0, 1000
✓	25 11:06:48	use supermarket
✓	26 11:06:48	select * from sample LIMIT 0, 1000
✓	27 11:06:48	select 'Invoice ID','Product line' from sample LIMIT 0, 1000

Creating a new coloumn named Revenue in MYSQL:

```
supermarket x
Limit to 1000 rows

1 use supermarket;
2 • select * from sample;
3 • select 'Invoice ID','Product line' from sample;
4 • alter table sample add revenue int;
5 • select * from sample;
6
```

Result Grid															Filter Rows:		Export:	Wrap Cell Content:	Fetch rows:
	Gender	Product line	Unit price	Quantity	Tax 5%	Total	Date	Time	Payment	cogs	gross margin percentage	gross income	Rating	revenue					
▶	Female	Health and beauty	74.69	7	26.1415	548.9715	1/5/2019	13:08	Ewallet	522.83	4.761904762	26.1415	9.1	NULL					
	Female	Electronic accessories	15.28	5	3.82	80.22	3/8/2019	10:29	Cash	76.4	4.761904762	3.82	9.6	NULL					
	Male	Home and lifestyle	46.33	7	16.2155	340.5255	3/3/2019	13:23	Credit card	324.31	4.761904762	16.2155	7.4	NULL					
	Male	Health and beauty	58.22	8	23.288	489.048	1/27/2019	20:33	Ewallet	465.76	4.761904762	23.288	8.4	NULL					
	Male	Sports and travel	86.31	7	30.2085	634.3785	2/8/2019	10:37	Ewallet	604.17	4.761904762	30.2085	5.3	NULL					
	Male	Electronic accessories	85.39	7	29.8865	627.6165	3/25/2019	18:30	Ewallet	597.73	4.761904762	29.8865	4.1	NULL					
	Female	Electronic accessories	68.84	6	20.652	433.692	2/25/2019	14:36	Ewallet	413.04	4.761904762	20.652	5.8	NULL					
	Female	Home and lifestyle	73.56	10	36.78	772.38	2/24/2019	11:38	Ewallet	735.6	4.761904762	36.78	8	NULL					
	Female	Health and beauty	36.26	2	3.626	76.146	1/10/2019	17:15	Credit card	72.52	4.761904762	3.626	7.2	NULL					
	Female	Food and beverages	54.84	3	8.226	172.746	2/20/2019	13:27	Credit card	164.52	4.761904762	8.226	5.9	NULL					
	Female	Fashion accessories	14.48	4	2.896	60.816	2/6/2019	18:07	Ewallet	57.92	4.761904762	2.896	4.5	NULL					
	Male	Electronic accessories	25.51	4	5.102	107.142	3/9/2019	17:03	Cash	102.04	4.761904762	5.102	6.8	NULL					
	Female	Electronic accessories	46.95	5	11.7375	246.4875	2/12/2019	10:25	Ewallet	234.75	4.761904762	11.7375	7.1	NULL					
	Male	Food and beverages	43.19	10	21.595	453.495	2/7/2019	16:48	Ewallet	431.9	4.761904762	21.595	8.2	NULL					
	Female	Health and beauty	71.38	10	35.69	749.49	3/29/2019	19:21	Cash	713.8	4.761904762	35.69	5.7	NULL					

Assigning the values to the new column Revenue:

Limit to 1000 rows													
<pre> 1 use supermarket; 2 select * from sample; 3 select 'Invoice ID','Product line' from sample; 4 alter table sample add revenue double; 5 6 update sample set revenue =(Rating-cogs); 7 select * from sample; </pre>													
Result Grid													
Filter Rows: Export: Wrap Cell Content: Fetch rows:													
	Product line	Unit price	Quantity	Tax 5%	Total	Date	Time	Payment	cogs	gross margin percentage	gross income	Rating	revenue
	Health and beauty	74.69	7	26.1415	548.9715	1/5/2019	13:08	Ewallet	522.83	4.761904762	26.1415	9.1	-513.73
	Electronic accessories	15.28	5	3.82	80.22	3/8/2019	10:29	Cash	76.4	4.761904762	3.82	9.6	-66.80000000000001
	Home and lifestyle	46.33	7	16.2155	340.5255	3/3/2019	13:23	Credit card	324.31	4.761904762	16.2155	7.4	-316.91
	Health and beauty	58.22	8	23.288	489.048	1/27/2019	20:33	Ewallet	465.76	4.761904762	23.288	8.4	-457.36
	Sports and travel	86.31	7	30.2085	634.3785	2/8/2019	10:37	Ewallet	604.17	4.761904762	30.2085	5.3	-598.87
	Electronic accessories	85.39	7	29.8865	627.6165	3/25/2019	18:30	Ewallet	597.73	4.761904762	29.8865	4.1	-593.63
	Electronic accessories	68.84	6	20.652	433.692	2/25/2019	14:36	Ewallet	413.04	4.761904762	20.652	5.8	-407.24
	Home and lifestyle	73.56	10	36.78	772.38	2/24/2019	11:38	Ewallet	735.6	4.761904762	36.78	8	-727.6
	Health and beauty	36.26	2	3.626	76.146	1/10/2019	17:15	Credit card	72.52	4.761904762	3.626	7.2	-65.32
	Food and beverages	54.84	3	8.226	172.746	2/20/2019	13:27	Credit card	164.52	4.761904762	8.226	5.9	-158.62
	Fashion accessories	14.48	4	2.896	60.816	2/6/2019	18:07	Ewallet	57.92	4.761904762	2.896	4.5	-53.42
	Electronic accessories	25.51	4	5.102	107.142	3/9/2019	17:03	Cash	102.04	4.761904762	5.102	6.8	-95.24000000000001
	Electronic accessories	46.95	5	11.7375	246.4875	2/12/2019	10:25	Ewallet	234.75	4.761904762	11.7375	7.1	-227.65
	Food and beverages	43.19	10	21.595	453.495	2/7/2019	16:48	Ewallet	431.9	4.761904762	21.595	8.2	-423.7
	Health and beauty	71.38	10	35.69	749.49	3/29/2019	19:21	Cash	713.8	4.761904762	35.69	5.7	-708.0999999999999

Deleting the column Payment:

sample sample sample sample sample x

Limit to 1000 rows

```

1 use supermarket;
2 • select * from sample;
3 • select 'Invoice ID','Product line' from sample;
4 • alter table sample add revenue double;
5
6 • update sample set revenue =(Rating-cogs);
7 • select * from sample;
8
9 • alter table sample drop column Payment;
10 • select * from sample;

```

Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:

	Invoice ID	Branch	City	Customer type	Gender	Product line	Unit price	Quantity	Tax 5%	Total	Date	Time	cogs	gross margin percentage
▶	750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7	26.1415	548.9715	1/5/2019	13:08	522.83	4.761904762
	226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	15.28	5	3.82	80.22	3/8/2019	10:29	76.4	4.761904762
	631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33	7	16.2155	340.5255	3/3/2019	13:23	324.31	4.761904762
	123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8	23.288	489.048	1/27/2019	20:33	465.76	4.761904762
	373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	2/8/2019	10:37	604.17	4.761904762
	699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	85.39	7	29.8865	627.6165	3/25/2019	18:30	597.73	4.761904762
	355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84	6	20.652	433.692	2/25/2019	14:36	413.04	4.761904762
	315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56	10	36.78	772.38	2/24/2019	11:38	735.6	4.761904762
	665-32-9167	A	Yangon	Member	Female	Health and beauty	36.26	2	3.626	76.146	1/10/2019	17:15	72.52	4.761904762
	692-92-5582	B	Mandalay	Member	Female	Food and beverages	54.84	3	8.226	172.746	2/20/2019	13:27	164.52	4.761904762
	351-62-0822	B	Mandalay	Member	Female	Fashion accessories	14.48	4	2.896	60.816	2/6/2019	18:07	57.92	4.761904762
	529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.51	4	5.102	107.142	3/9/2019	17:03	102.04	4.761904762
	365-64-0515	A	Yangon	Normal	Female	Electronic accessories	46.95	5	11.7375	246.4875	2/12/2019	10:25	234.75	4.761904762
	252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19	10	21.595	453.495	2/7/2019	16:48	431.9	4.761904762
	829-34-3910	A	Yangon	Normal	Female	Health and beauty	71.38	10	35.69	749.49	3/29/2019	19:21	713.8	4.761904762

Connecting MySQL Server to Tableau:

Connect

Search for Data

Tableau Server

To a File

Microsoft Excel

Text file

JSON file

Microsoft Access

PDF file

Spatial file

Statistical file

More...

To a Server

Microsoft SQL Server

Oracle

Amazon Redshift

MySQL

More...

Saved Data Sources

Sample - Superstore

World Indicators

Search

Installed Connectors (72)

Action Vector

Alibaba AnalyticDB for MySQL

Alibaba Data Lake Analytics

Alibaba MaxCompute

Amazon Athena

Amazon Aurora for MySQL

Amazon EMR Hadoop Hive

Amazon Redshift

Amazon Redshift (deprecated)

Apache Drill

Azure Data Lake Storage Gen2

Azure SQL Database

Azure Synapse Analytics

Box

Cloudera Hadoop

Customer Data Platform

Databricks

Denodo

Dremio

Dropbox

Esri

Exasol

Firebird 3

Google Analytics

Google BigQuery

Google BigQuery (JDBC)

Google Cloud SQL

Google Drive

Hortonworks Hadoop Hive

IBM DB2

IBM PDA (Netezza)

Impala

Intuit QuickBooks Online (deprecated)

Kognitio (deprecated)

Kyvos

LinkedIn Sales Navigator (deprecated)

MariaDB

Marketing Cloud Intelligence

Marketo (deprecated)

MarkLogic

Microsoft SQL Server

Microsoft SQL Server Analysis Services

MonetDB

MongoDB BI Connector

MySQL

OData

OneDrive and SharePoint Online

Oracle

Oracle Eloqua (deprecated)

Oracle Essbase

Pivotal Greenplum Database

PostgreSQL

Presto

Progress OpenEdge

Qubole Presto

Salesforce

Salesforce Data Cloud

SAP HANA

SAP NetWeaver Business Warehouse

SAP Sybase ASE

SAP Sybase IQ

ServiceNow ITSM (deprecated)

SharePoint Lists (deprecated)

SingleStore

Snowflake

Spark SQL

Splunk

Teradata

Teradata OLAP Connector

TIBCO Data Virtualization

Vertica

Web Data Connector (deprecated)

Salesforce Marketing Cloud by Tableau

SAP SuccessFactors by Tableau

ServiceNow by Tableau

Sharepoint Lists (JDBC) by Tableau

SingleStoreDB JDBC by SingleStore

MySQL

General

Initial SQL

Server

localhost

Port

3306

Database

supermarket

Username

root

Password

☐ Require SSL

Sign In

Google Analytics 4 by Tableau

Incorta by Incorta

Jethro ODBC by Jethro Data

Kyligence Connector by Kyligence

MarkLogic by MarkLogic

Ocient JDBC by Ociant

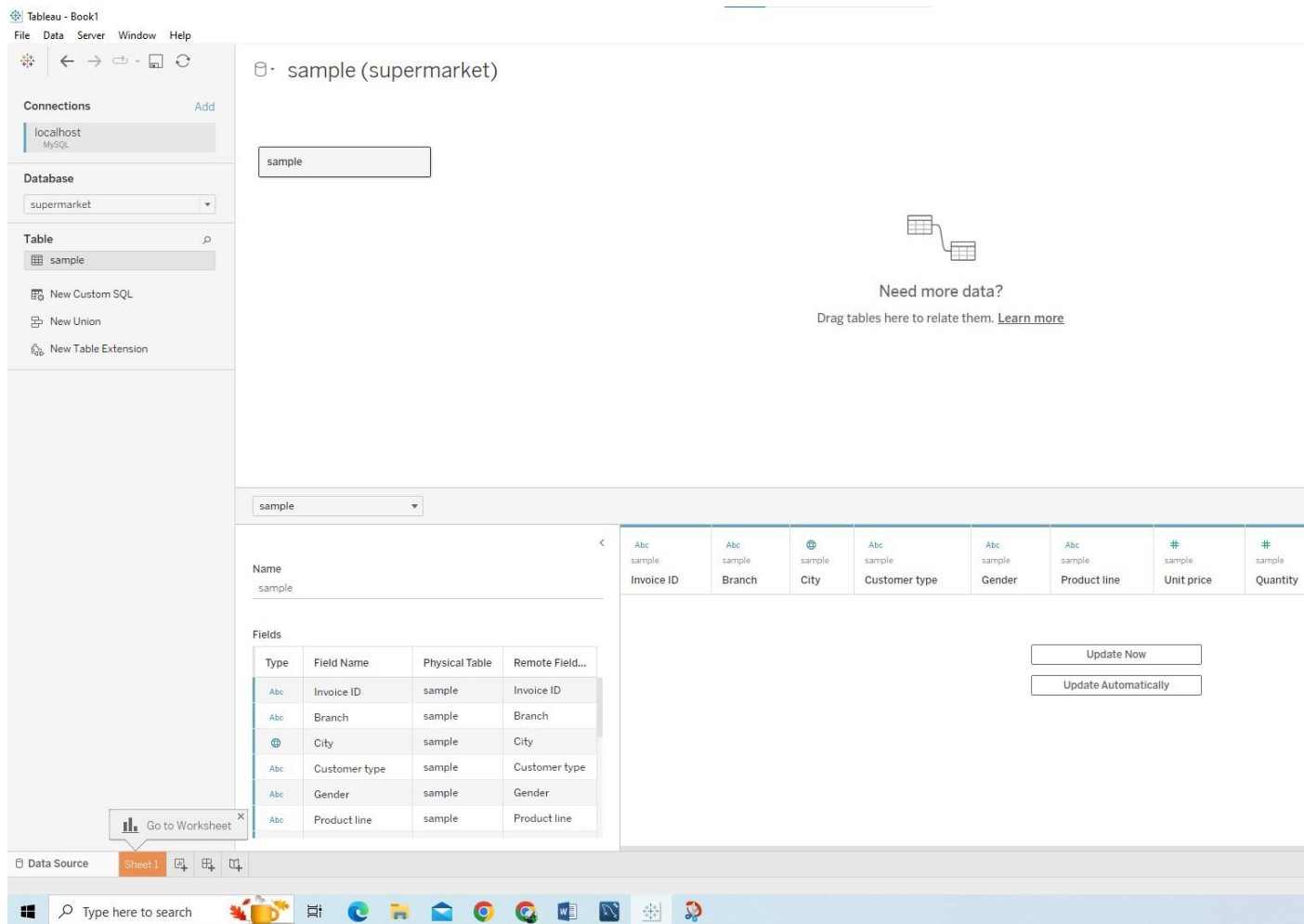
Oracle NetSuite by Tableau

Palantir Foundry by Palantir

Qubole Hive by Qubole

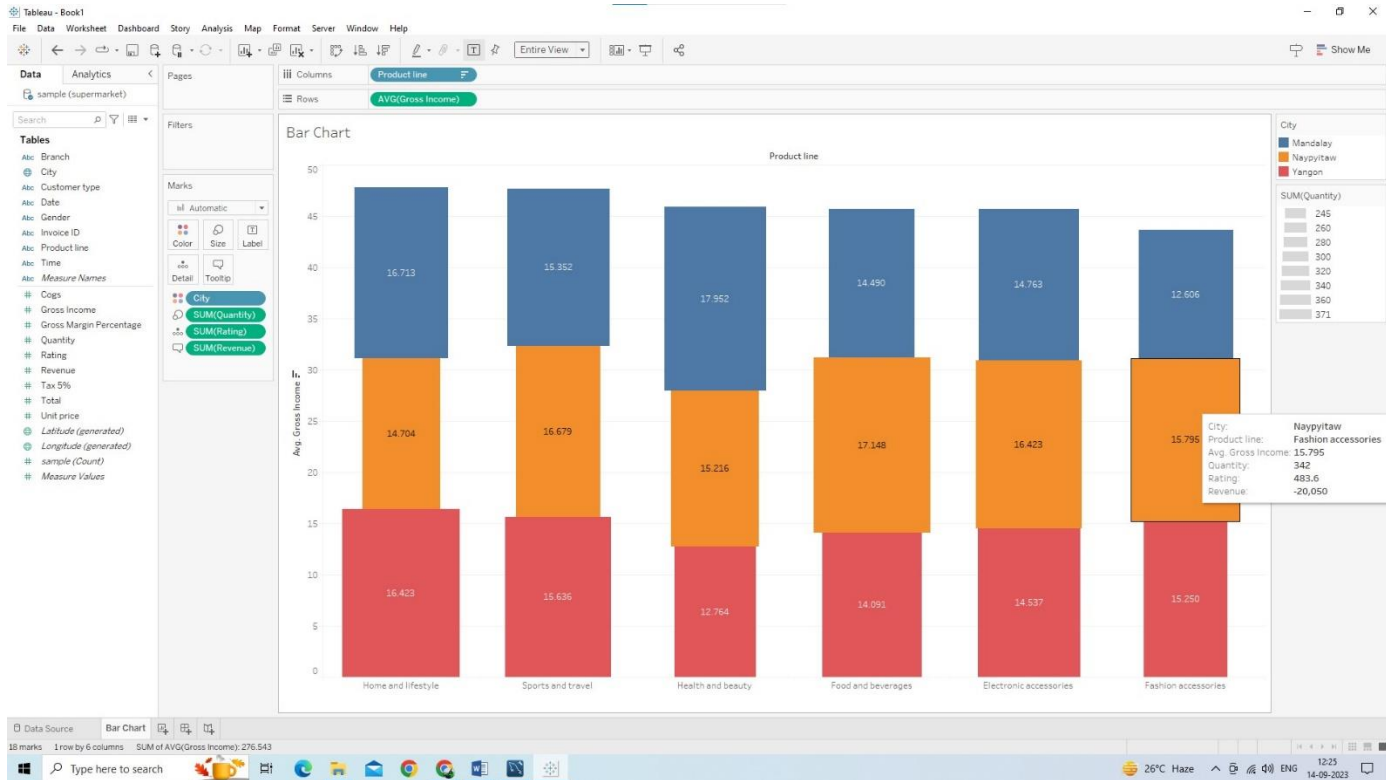
Rockset by Rockset, Inc.

Type here to search

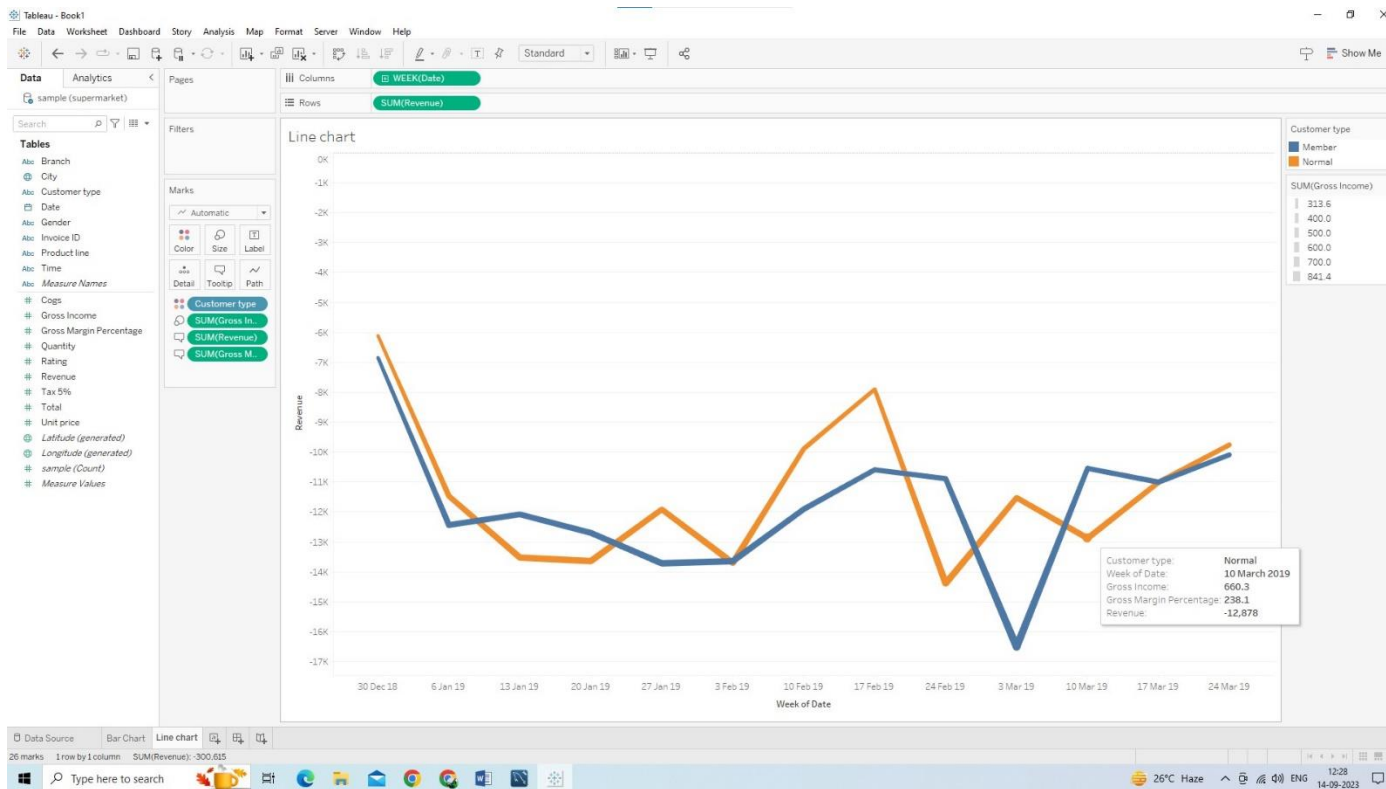


Creating Visualisations in Tableau:

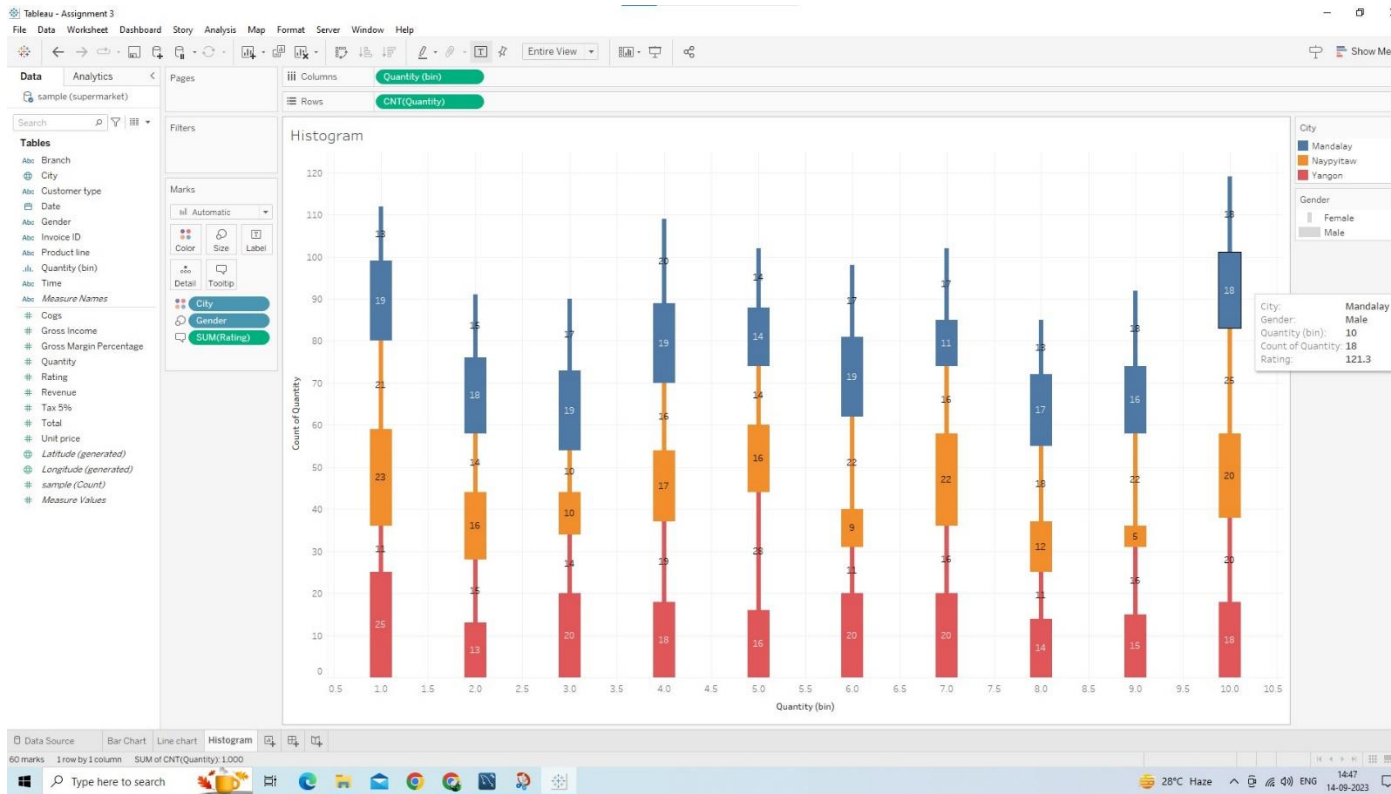
1) Bar Graph



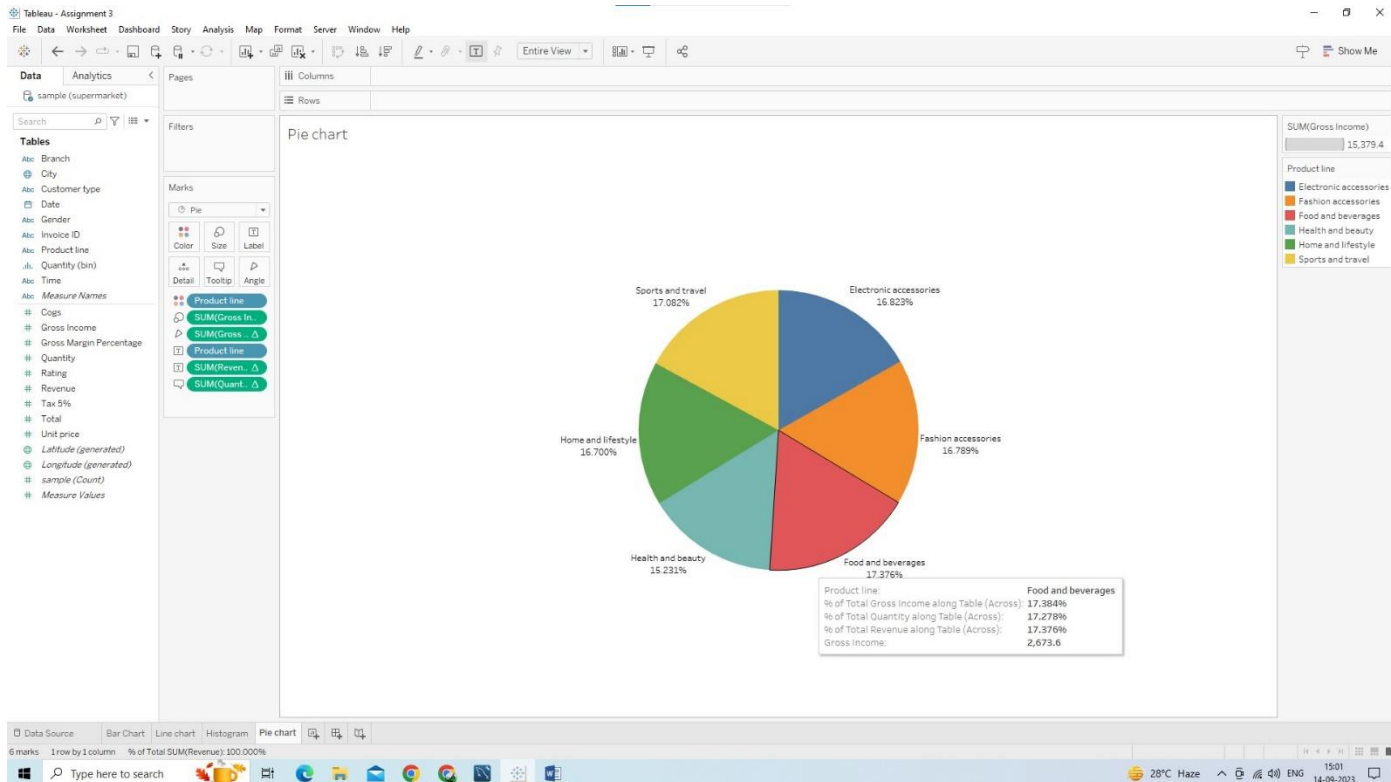
2)Line Chart



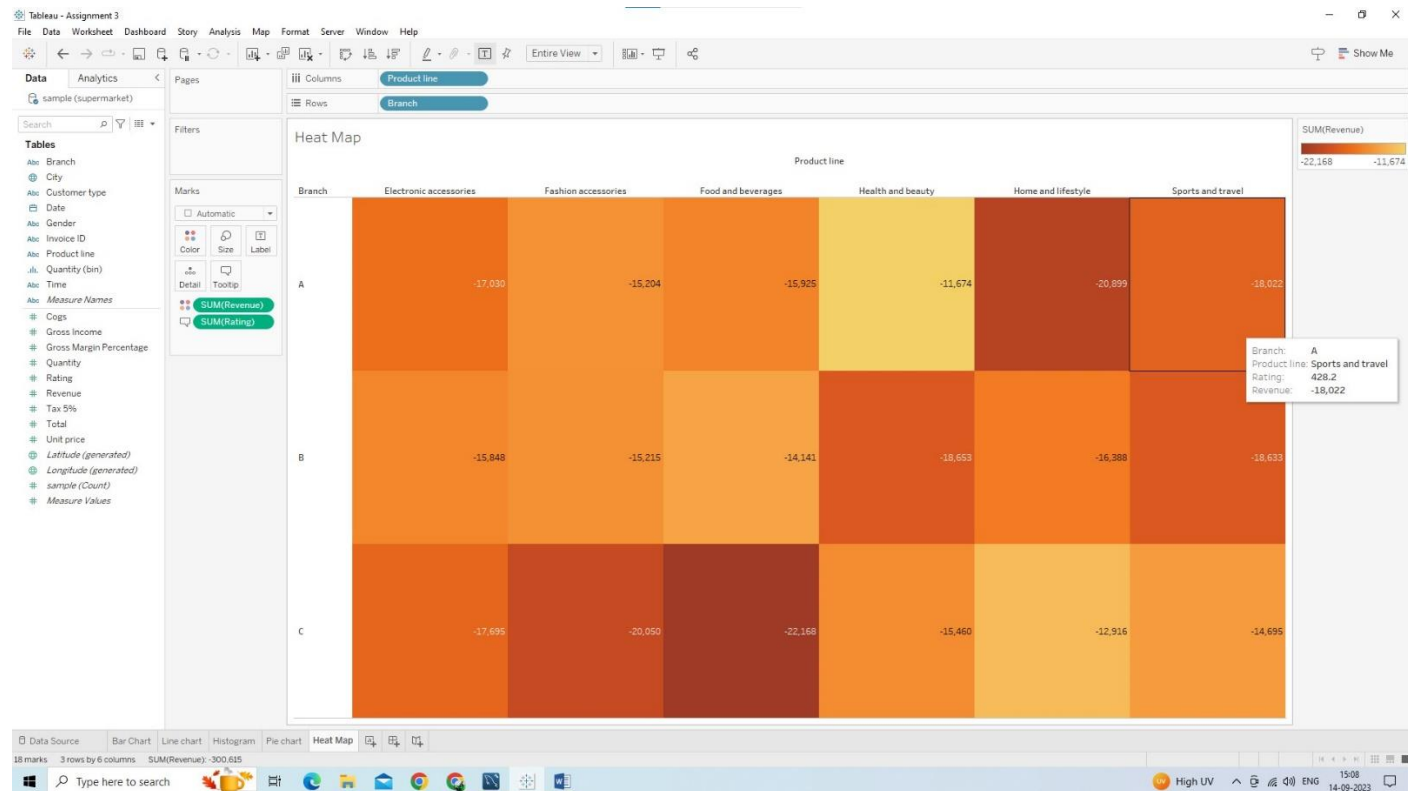
3)Histogram:



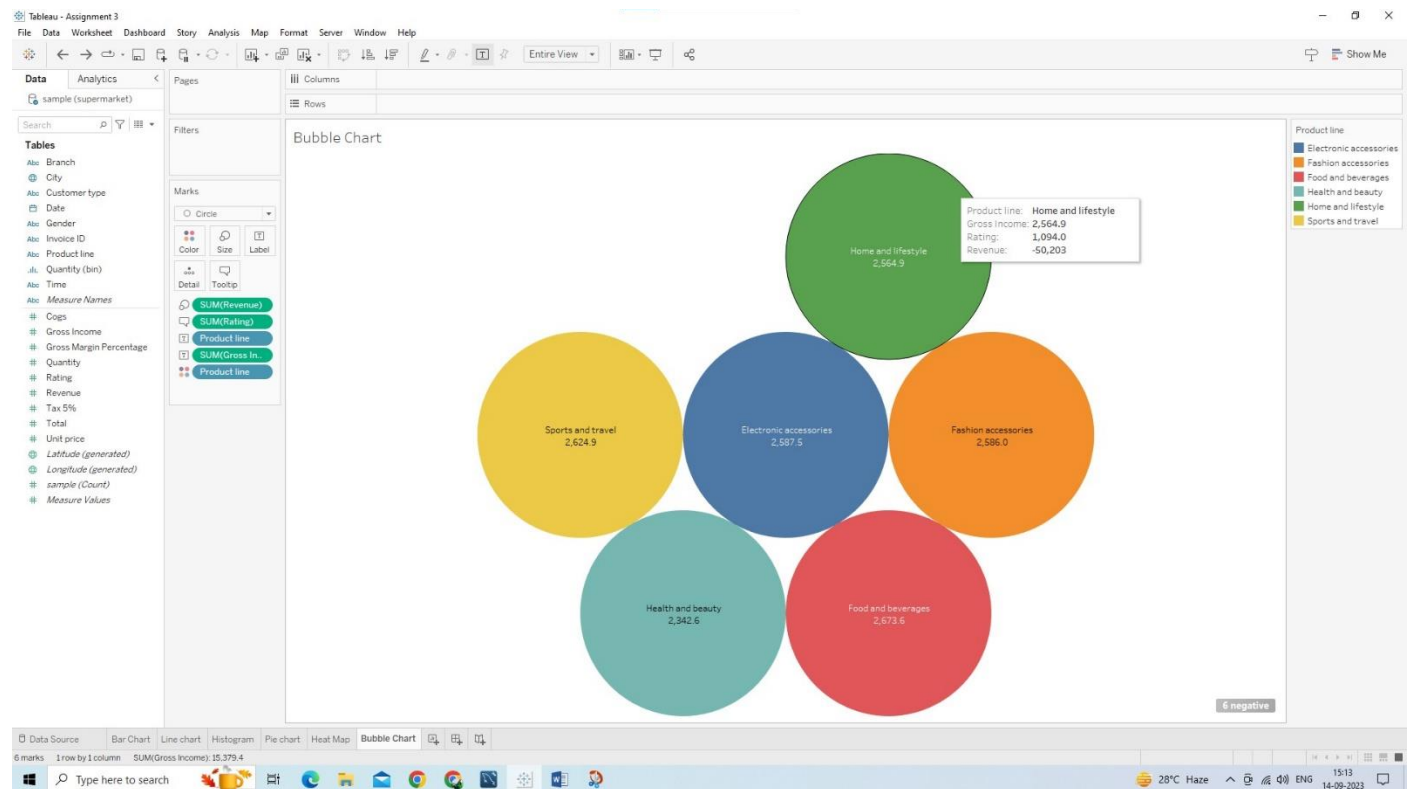
4)Pie Chart:



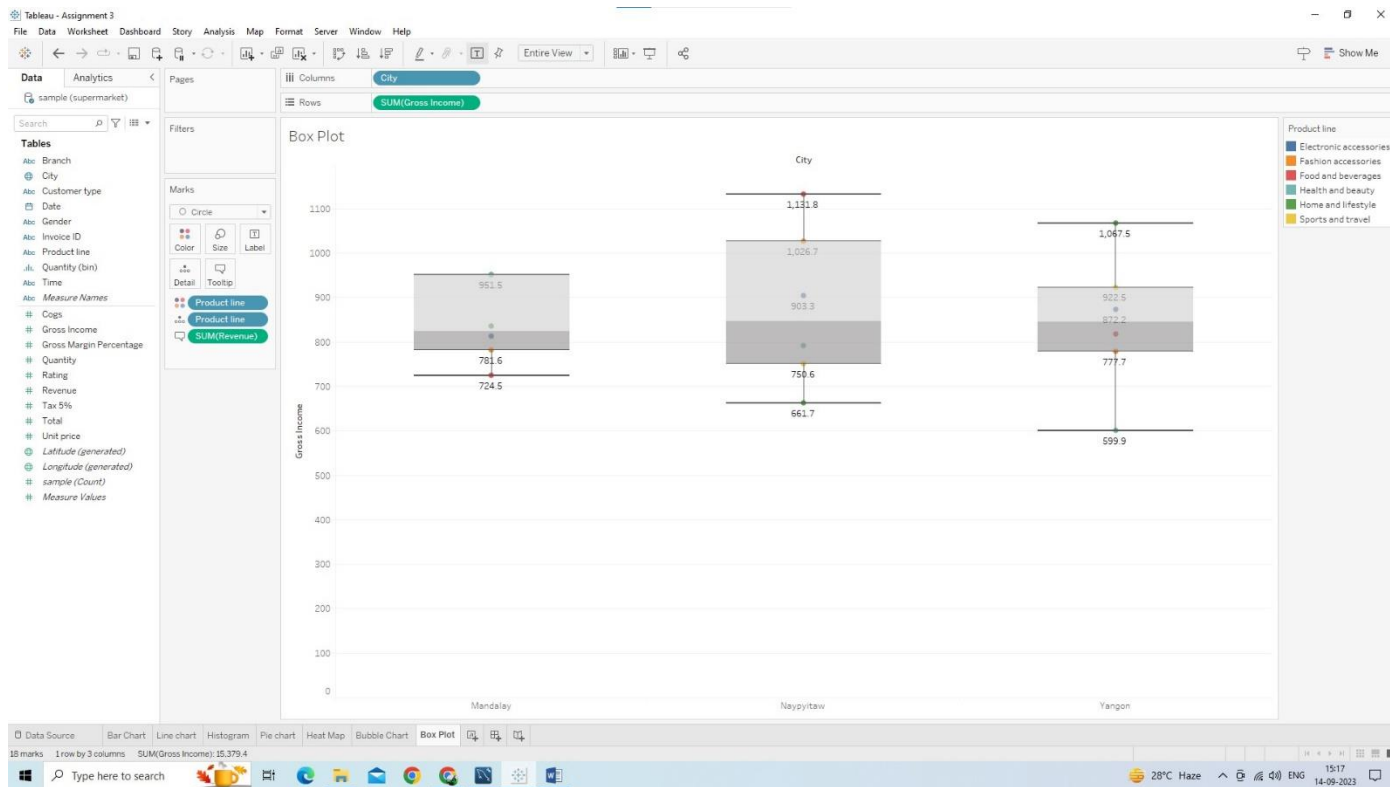
5)Heat Map:



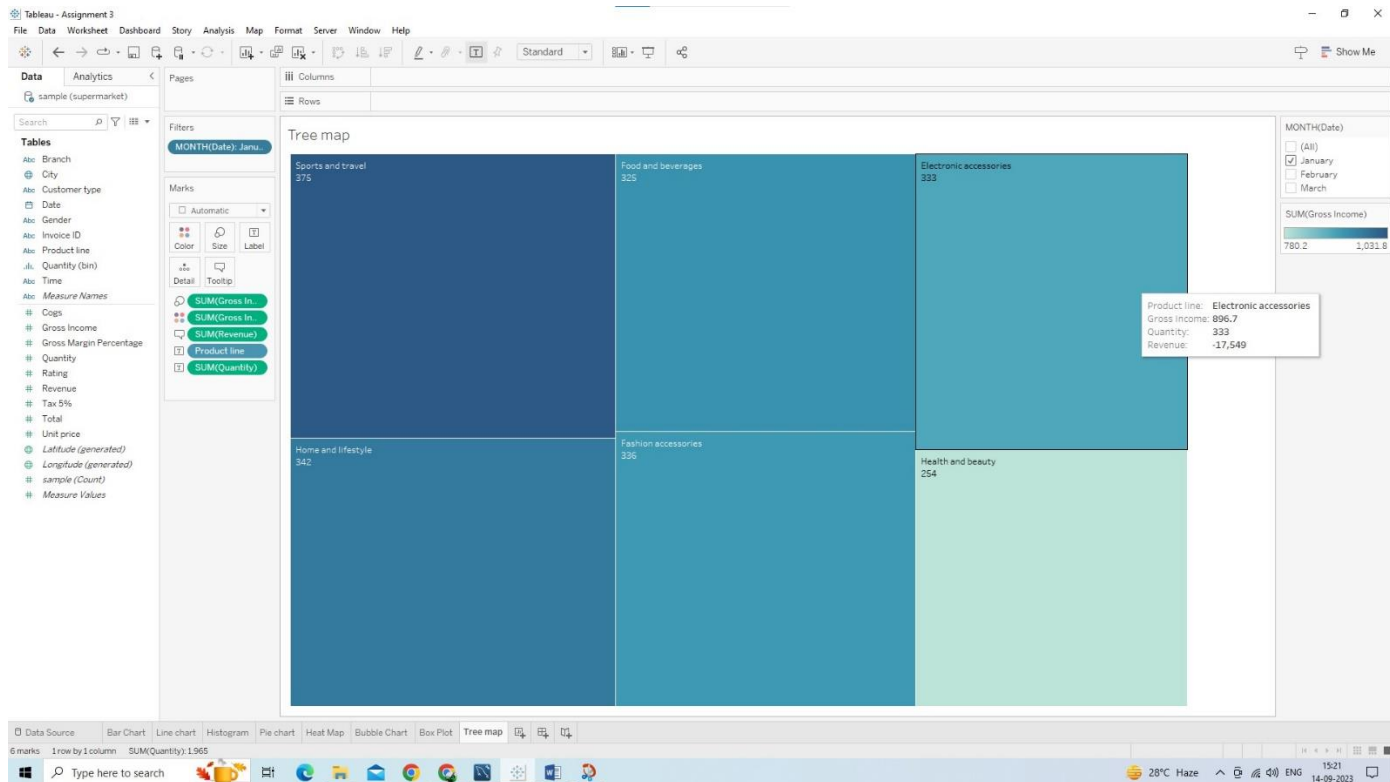
6)Bubble Chart:



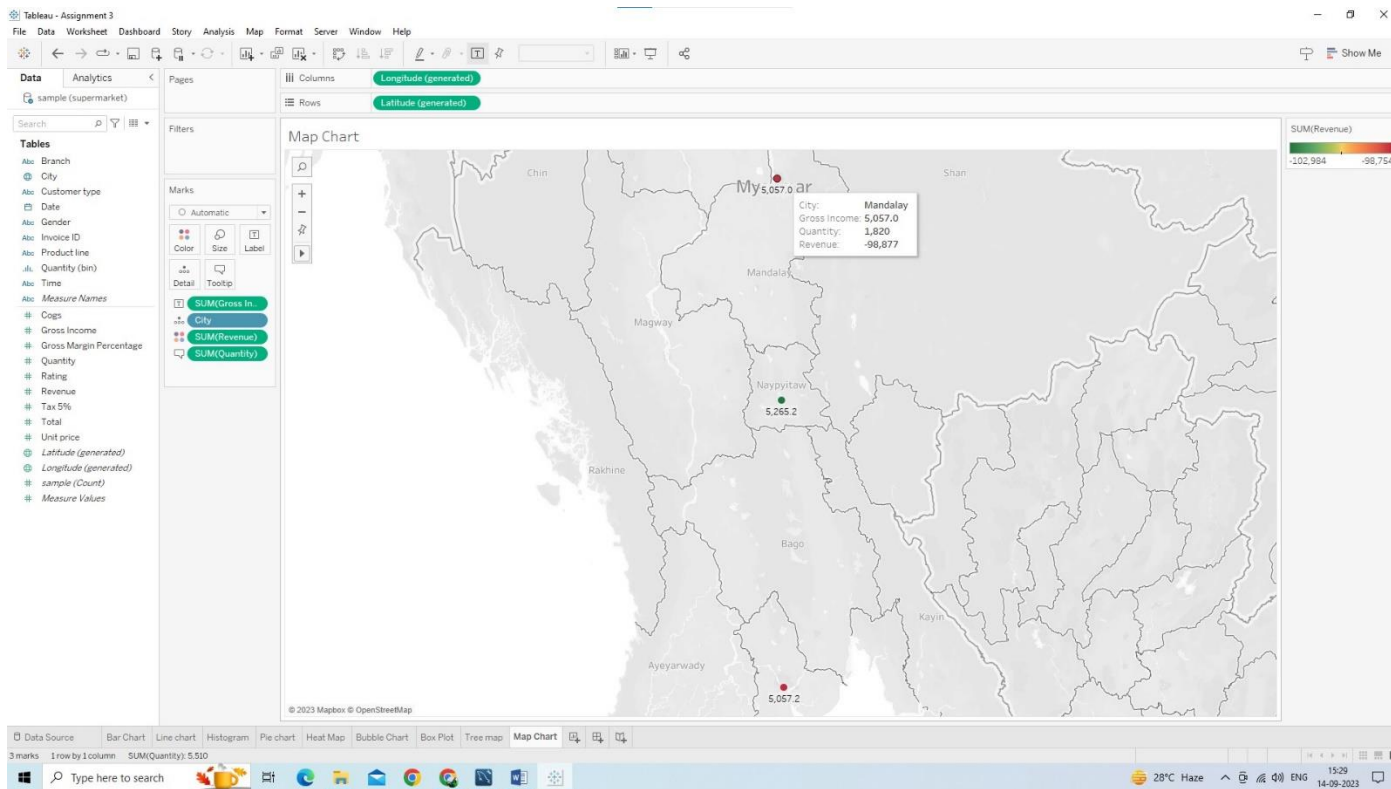
7)Box Plot:



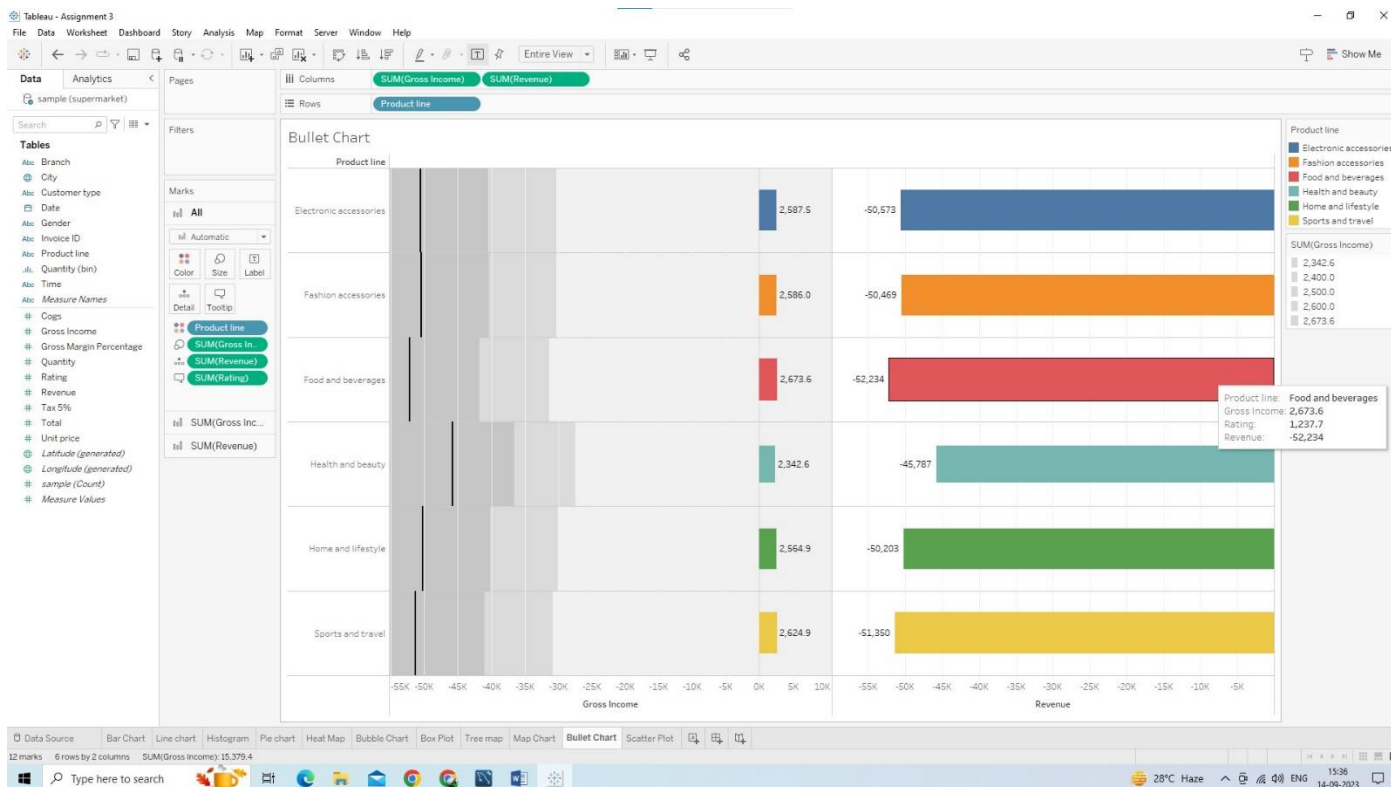
8)Tree Map:



9)Map Chart:



10)Bullet Chart:



11)Scatter Plot:

