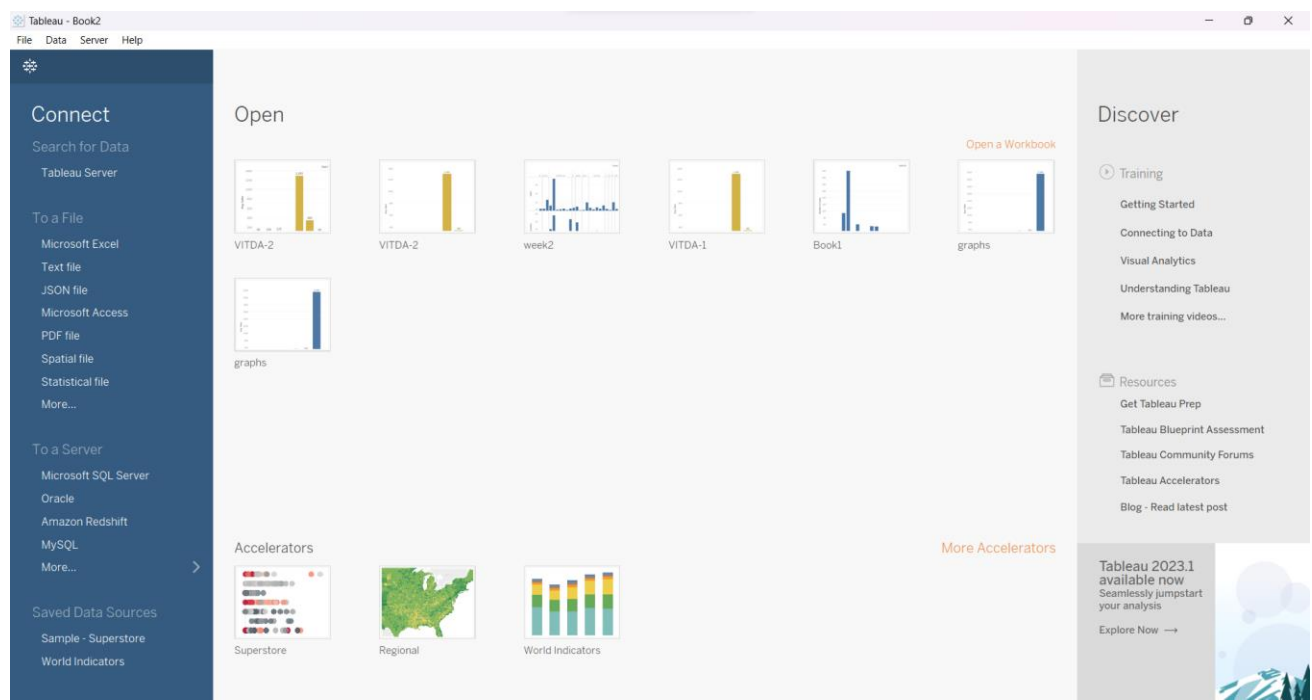


Name: Kanugo krishna Ganesh

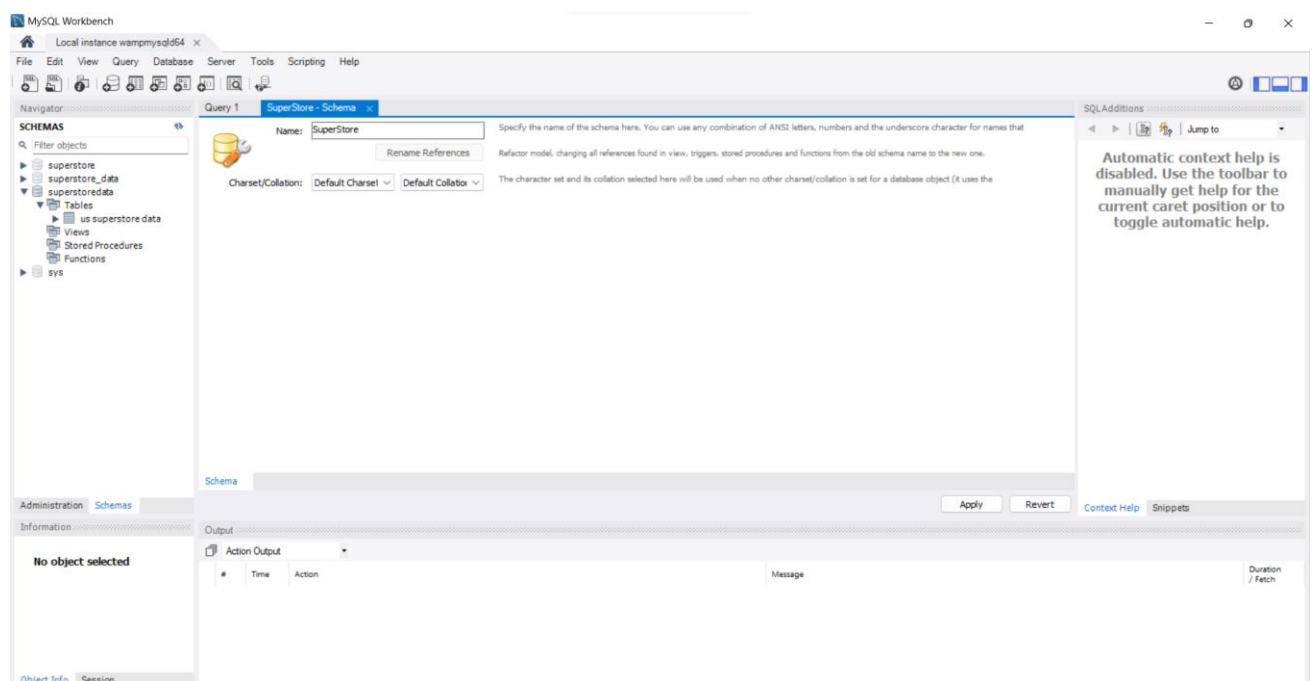
Data Analytics – Assignment – 01

1) Download tableau desktop & Mysql in your PC or laptop

Tableau Desktop:



Mysql WorkBench:



2) Create a new schema in your Mysql workbench and upload your data

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

```
1 create database superstore_data;
2 USE superstore_data;
3
4 select * from superstore1;
```

The 'Result Grid' displays the following data:

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State	Postal Code
1	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gule	Consumer	United States	Henderson	Kentucky	42420
2	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gule	Consumer	United States	Henderson	Kentucky	42420
3	CA-2016-138688	6/12/2016	6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	California	90036
4	US-2015-108966	10/11/2015	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311
5	US-2015-108966	10/11/2015	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311
6	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
7	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
8	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
9	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
10	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
11	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
12	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
13	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
14	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
15	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
16	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032
17	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032

The 'Output' window shows the execution of the query, with the following messages:

```
2 15:07:01 select * from superstore_data LIMIT 0, 1000
3 15:07:17 USE superstore_data
4 15:07:17 select * from superstore_data LIMIT 0, 1000
5 15:07:45 create database superstore_data
6 15:07:51 USE superstore_data
7 15:07:51 select * from superstore1 LIMIT 0, 1000
```

The 'Message' column shows the following errors:

```
Error Code: 1146. Table 'superstore_data.superstore_data' doesn't exist
Error Code: 1146. Table 'superstore_data.superstore_data' doesn't exist
Error Code: 1007. Can't create database 'superstore_data'; database exists
```

The 'Duration / Fetch' column shows the following values:

```
0.000 sec
0.000 sec
0.000 sec
0.000 sec
0.000 sec
0.000 sec
0.000 sec
```

The 'Action Output' window shows the following results:

```
138 row(s) returned
```

3) Connect your Mysql and Tableau

The screenshot shows the Tableau Desktop interface. The 'Connections' pane on the left shows the connection to the 'superstore1' database. The 'Database' pane shows the 'superstore_data' database. The 'Table' pane shows the 'superstore1' table. The main view displays the 'superstore1' table with the following fields:

#	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
1	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
2	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
3	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
4	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
5	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
6	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
7	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
8	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
9	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
10	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
11	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
12	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
13	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
14	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
15	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
16	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
17	superstore1	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment

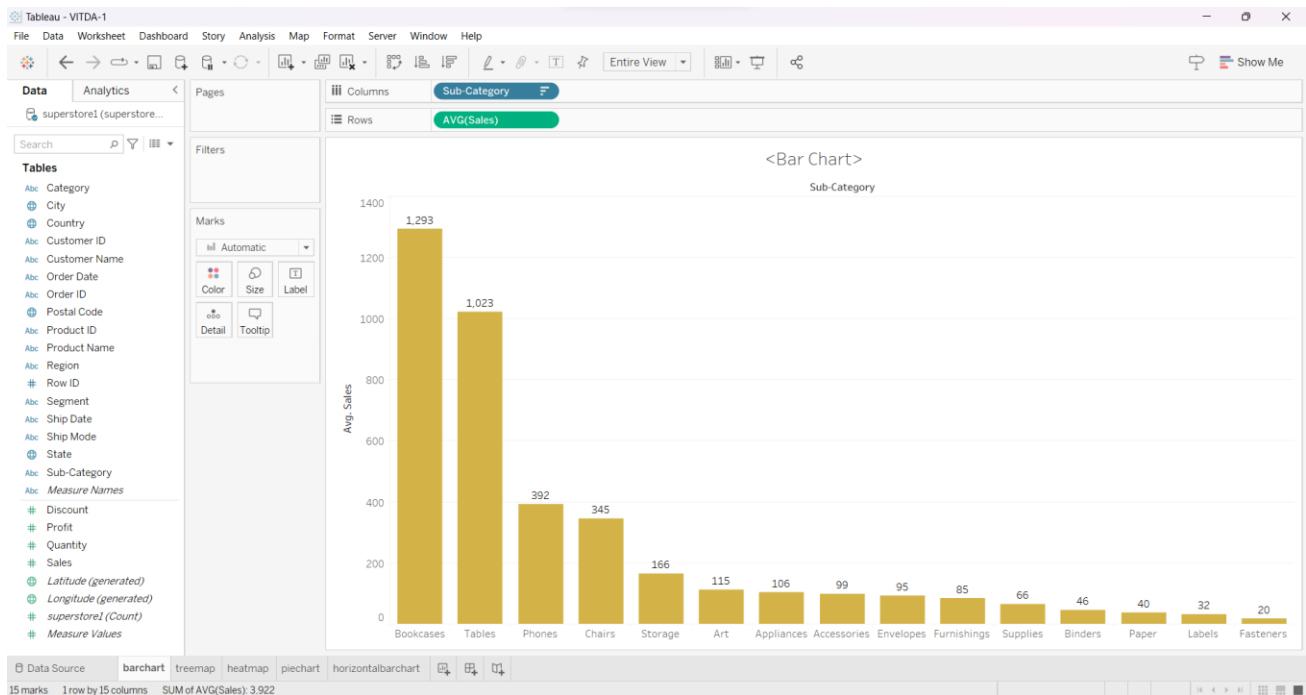
The 'Fields' pane shows the following fields:

Type	Field Name	Physical Table	Remote File...
#	Row ID	superstore1	Row ID
Abc	Order ID	superstore1	Order ID
Abc	Order Date	superstore1	Order Date
Abc	Ship Date	superstore1	Ship Date
Abc	Ship Mode	superstore1	Ship Mode
Abc	Customer ID	superstore1	Customer ID
Abc	Customer Name	superstore1	Customer Name
Abc	Segment	superstore1	Segment

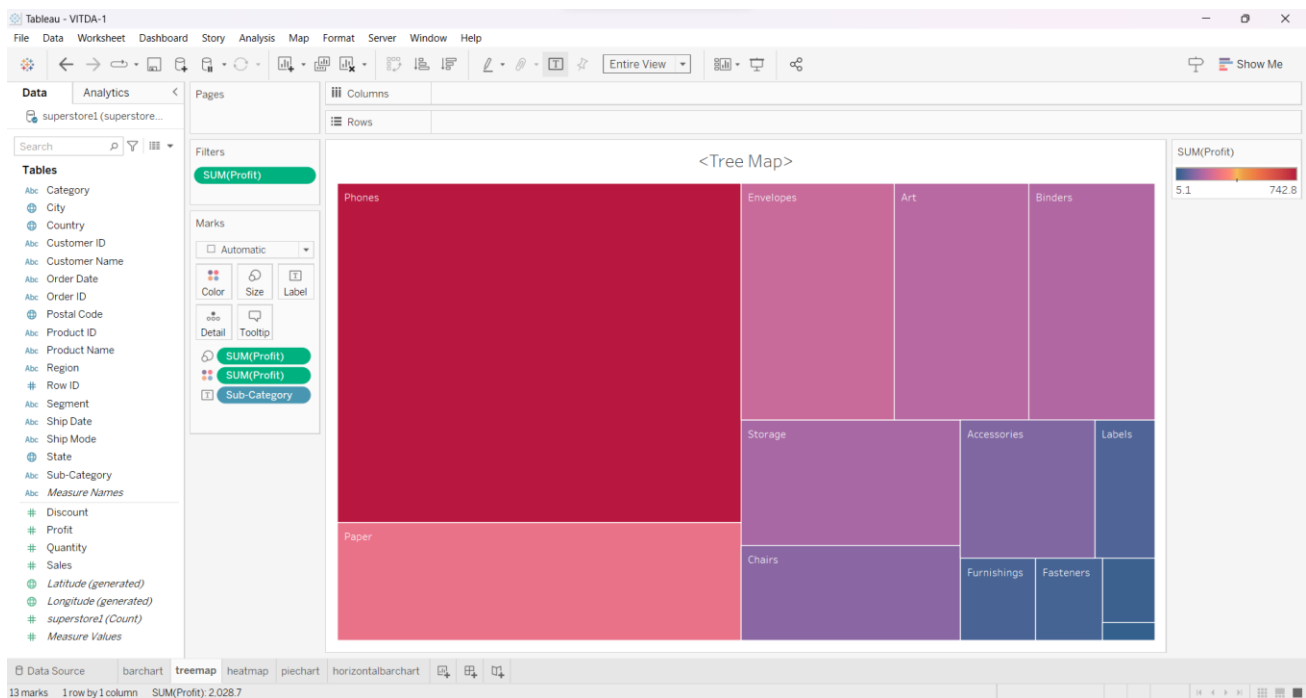
The 'Update Now' and 'Update Automatically' buttons are visible in the bottom right corner.

4) Create the below 5 charts/plots

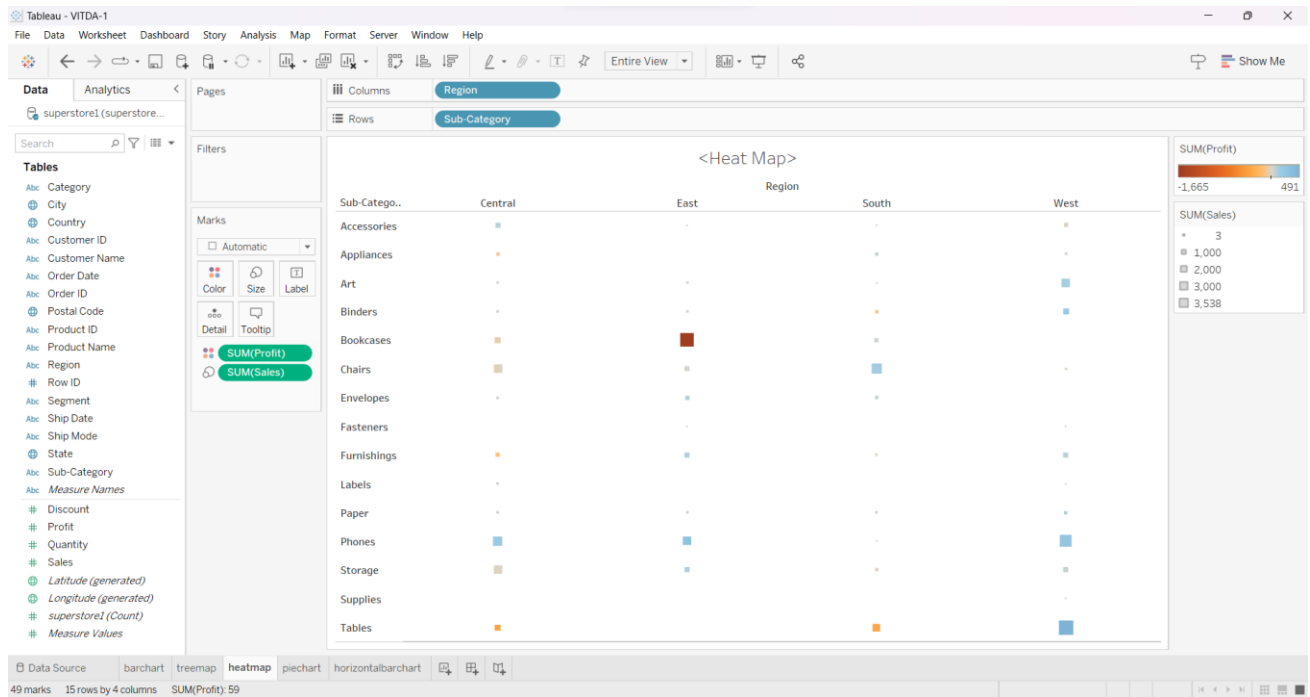
● Bar chart : Average of Sales for each Sub-Category.



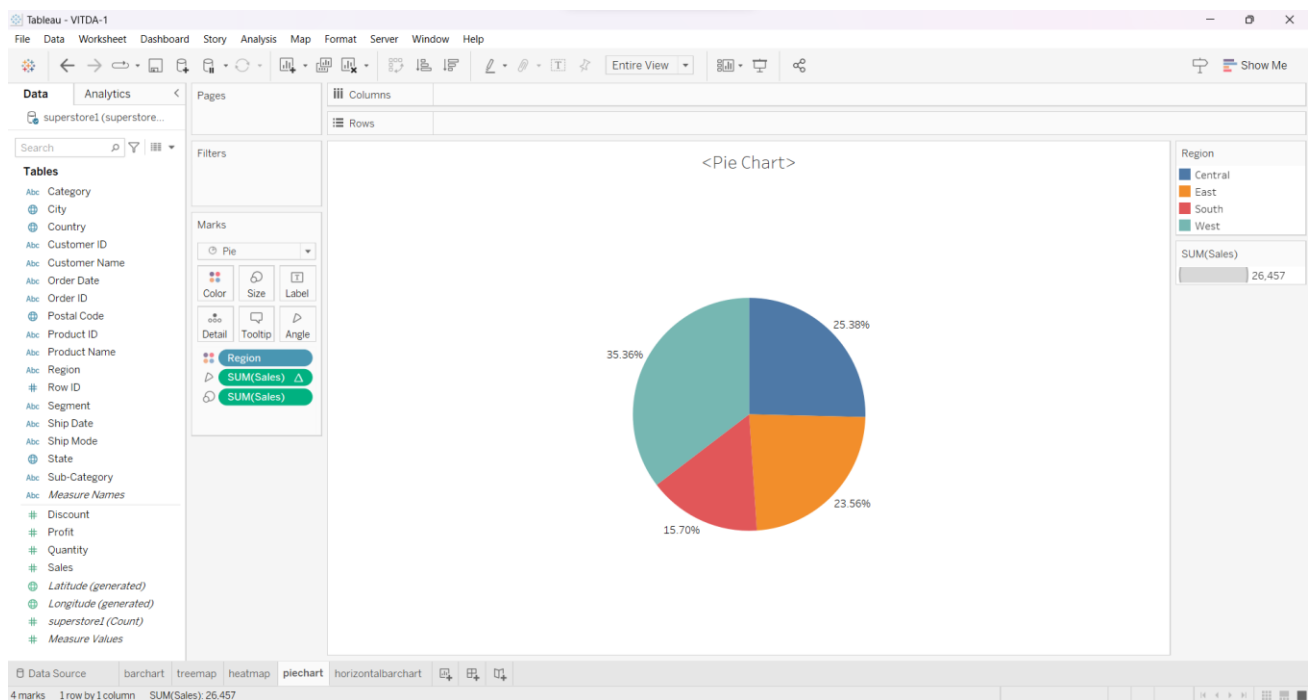
● Tree map : Sub-Category. Color shows sum of Profit. Size shows sum of Profit. The marks are labeled by Sub-Category. The view is filtered on sum of Profit, which includes greater than and or equal to 0.0 and keeps Null values.



- **Heatmap:** Sum of Profit (color) and sum of Sales (size) broken down by Region vs. Sub-Category.



- **Pie chart:** Region (color) and sum of Sales (size).



- **Horizontal bar chart:** Average of Sales for each Sub-Category.

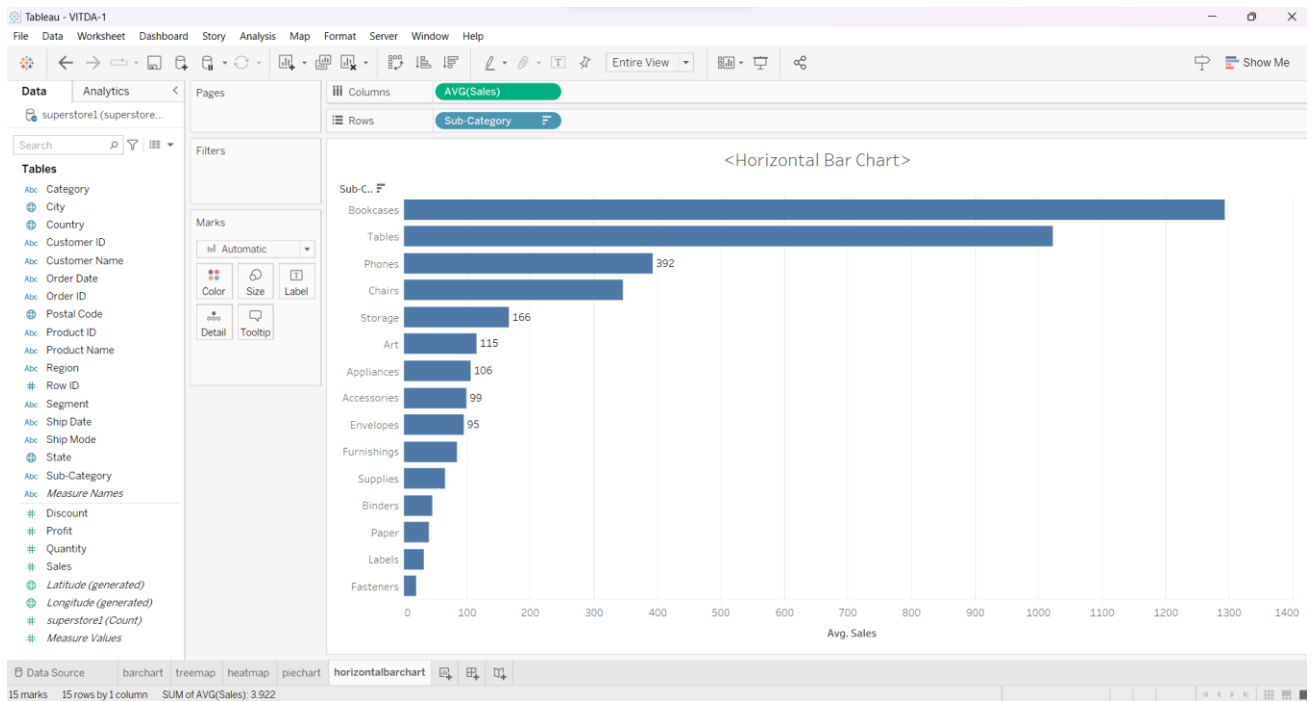


Tableau public link: https://public.tableau.com/views/VITDA-1/horizontalbarchart?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link