

## DATA ANALYTICS WITH IBM COGNOS ANALYTICS

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### ASSIGNMENT-3: SUPERMARKET SALES

#### SUPERMARKET DATASET CONNECTED TO MYSQL

The screenshot shows the MySQL Workbench interface. The 'Navigator' pane on the left displays the 'assignment3' database with a 'supermarket' table. The 'SQL File 3' editor shows the following SQL queries:

```
1 use assignment3;
2 select*from supermarket;
3
```

The 'Result Grid' displays the following data:

Invoice ID	Branch	City	Customer type	Gender	Prod.
750-67-8428	A	Yangon	Member	Female	Health
226-31-3081	C	Naypyitaw	Normal	Female	Electr
631-41-3108	A	Yangon	Normal	Male	Home
123-19-1176	A	Yangon	Member	Male	Health

The 'Output' pane at the bottom shows the execution log, including the 'CREATE TABLE' statement and the 'select from supermarket' query, which returned 1000 rows.

#### MYSQL CONNECTED TO TABLEAU

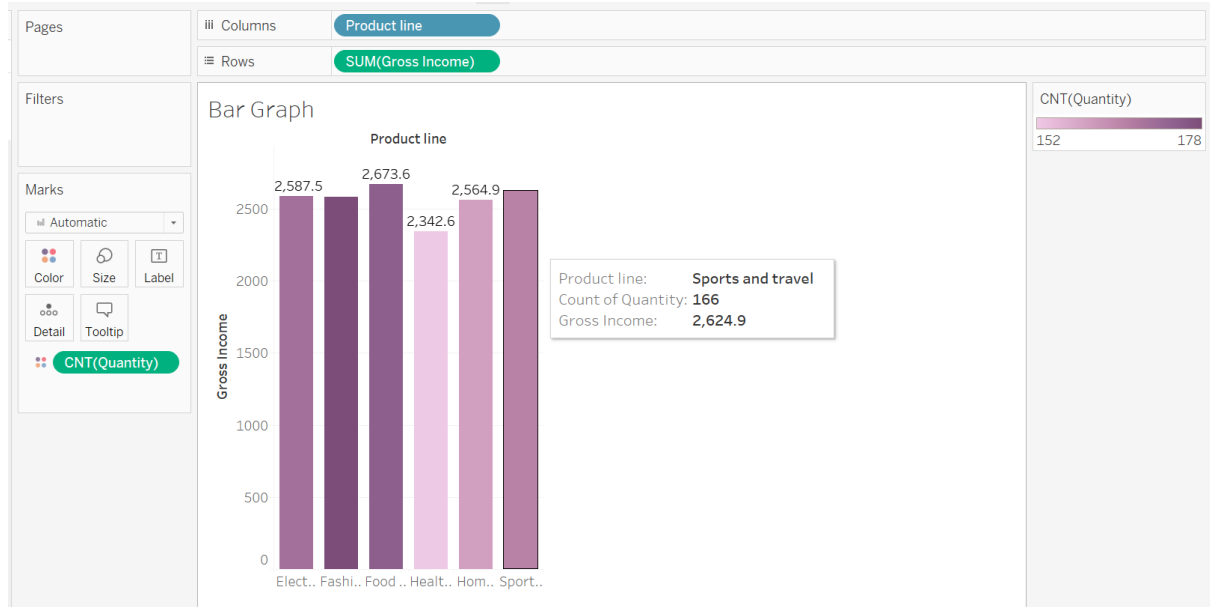
The screenshot shows the Tableau interface. The 'Connections' pane on the left lists the 'localhost MySQL' connection. The 'Database' is set to 'assignment3' and the 'Table' is 'supermarket'. The 'supermarket (assignment3)' data source is displayed in the main view, showing 19 fields and 1000 rows. The 'Fields' pane on the right lists the following fields:

Type	Field Name	Physical Table	Remote Field...
Text	Invoice ID	supermarket	Invoice ID
Text	Branch	supermarket	Branch
Text	City	supermarket	City
Text	Customer type	supermarket	Customer type
Text	Gender	supermarket	Gender
Text	Product line	supermarket	Product line

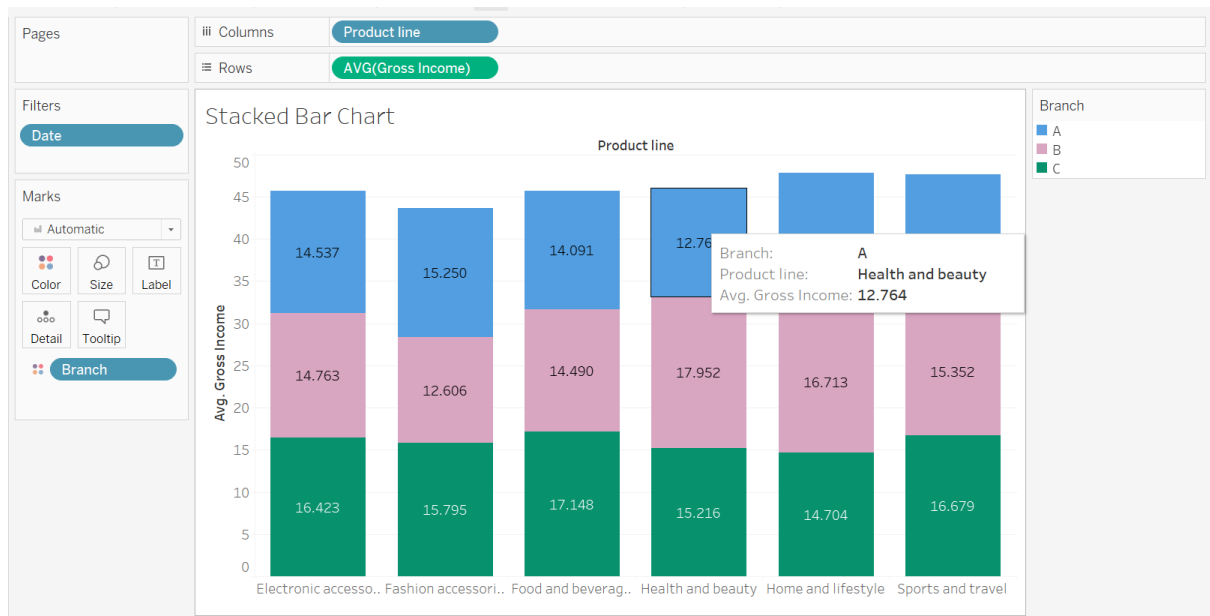
The 'Data Source' pane at the bottom shows the 'supermarket' table selected, with a preview of the data.

## EXPLORATIONS AND VISUALIZATIONS USING TABLEAU FOR SUPERMARKET DATASET

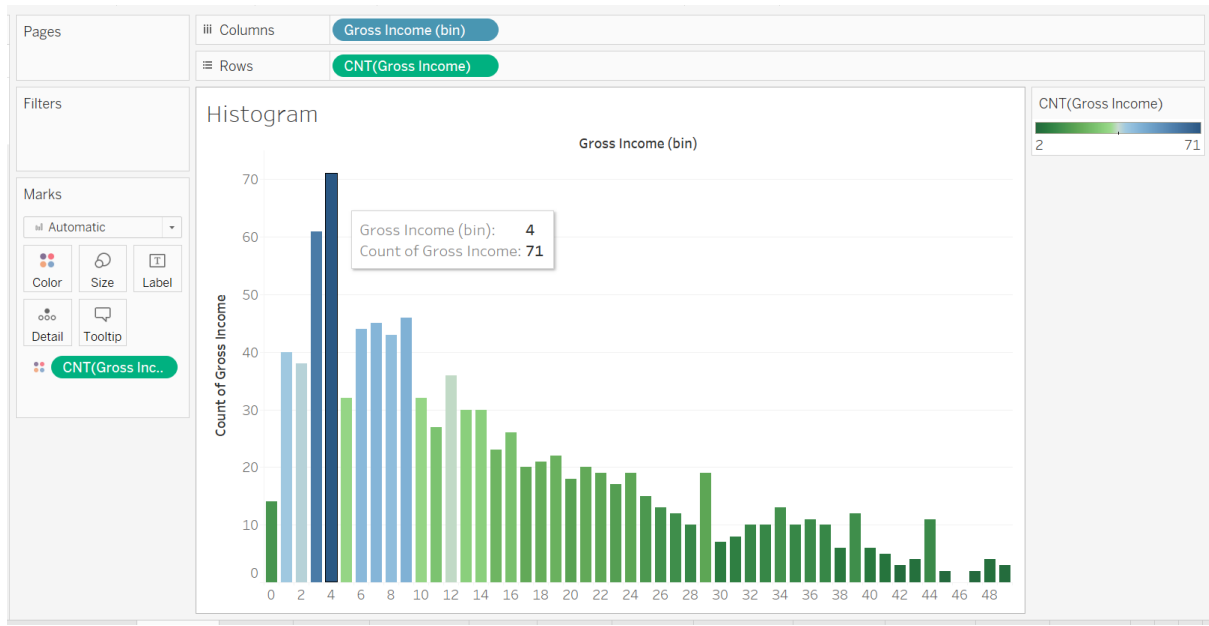
### BAR GRAPH:



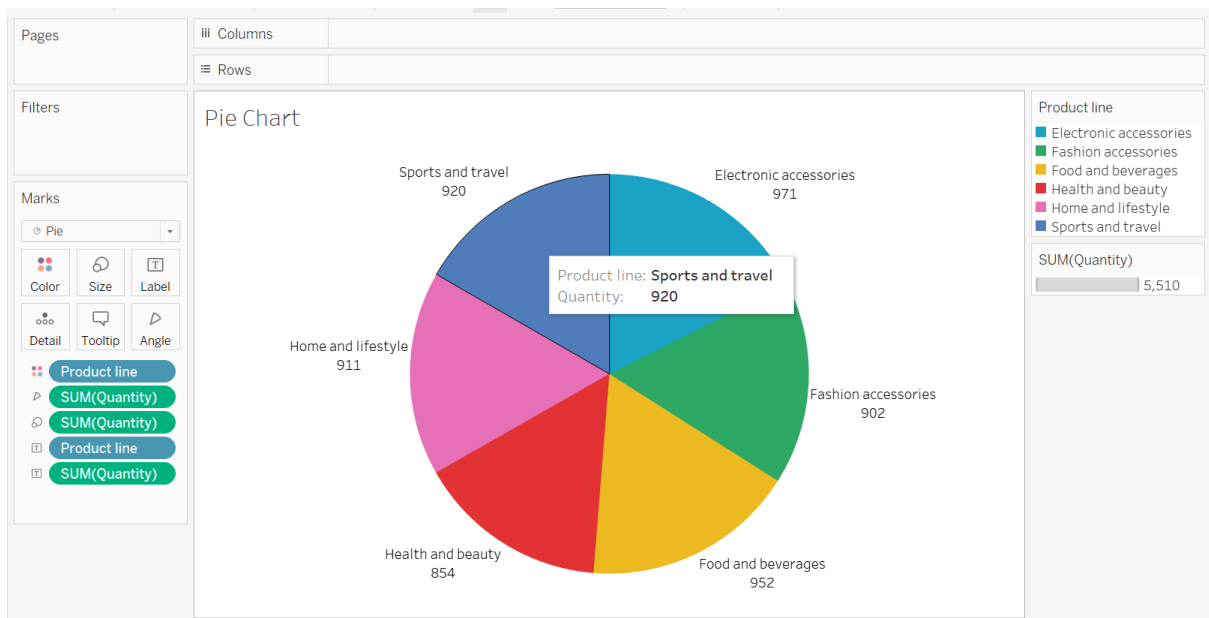
### STACKED BAR GRAPH:



## HISTOGRAM:



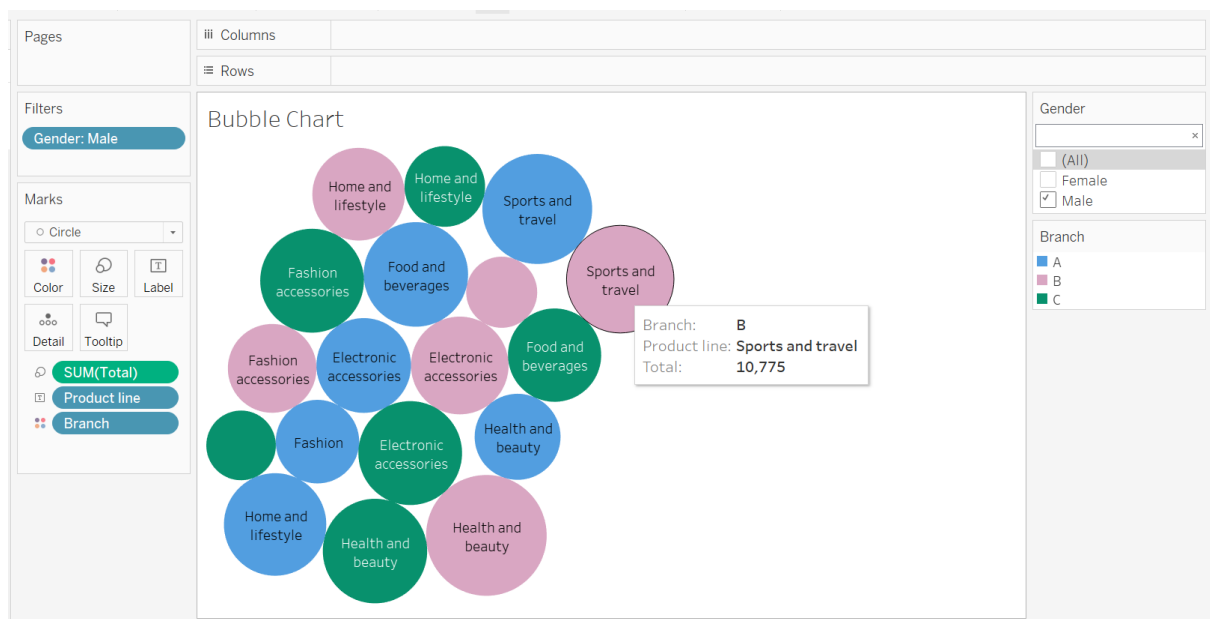
## PIE CHART:



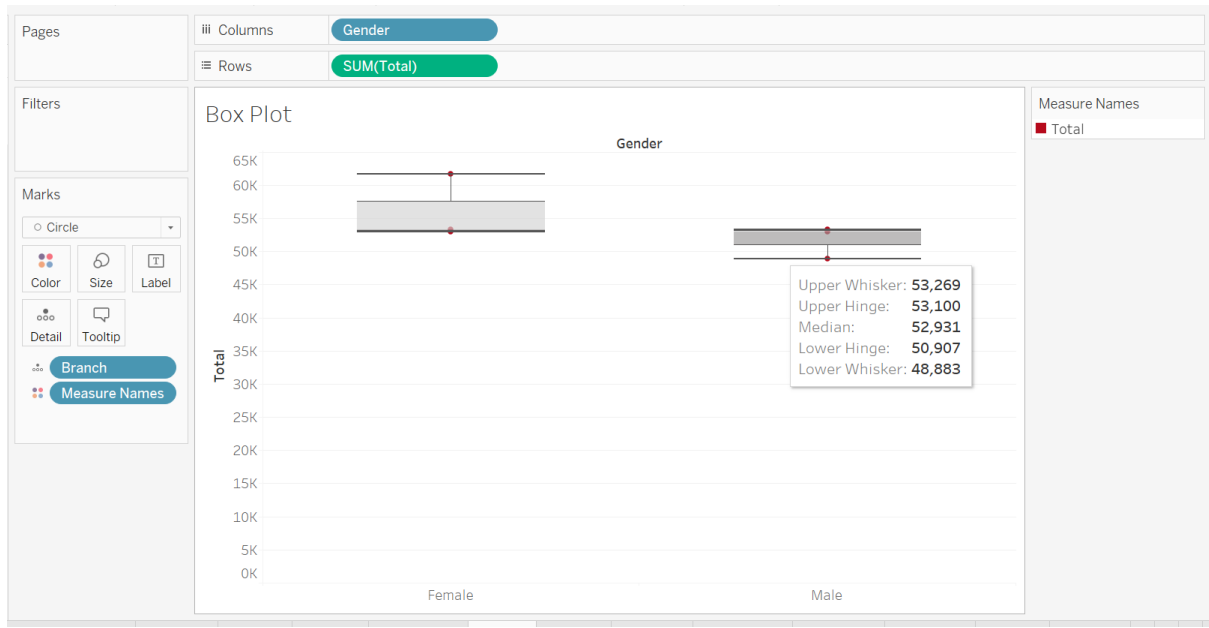
## HEAT MAP:



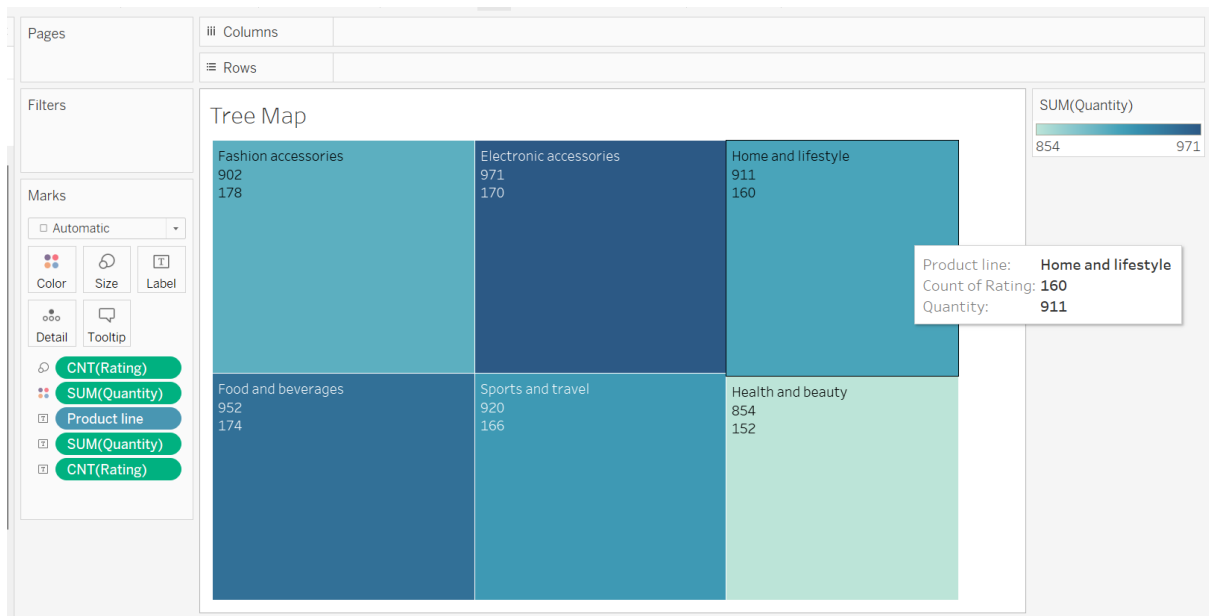
## PACKED BUBBLE CHART:



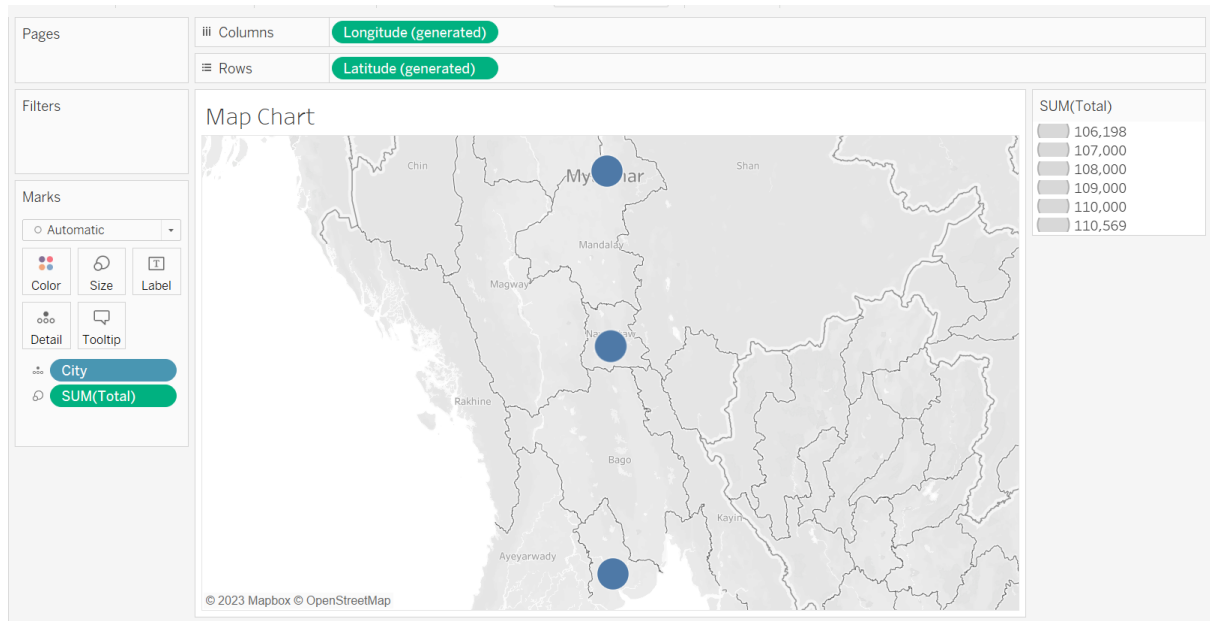
## BOX PLOT:



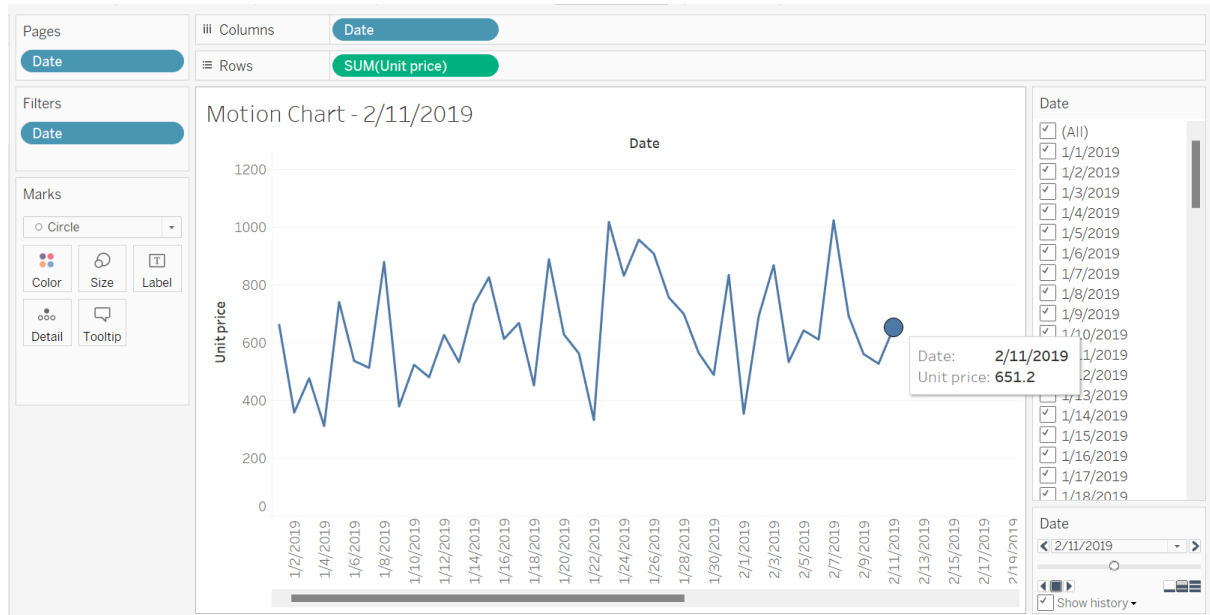
## TREE MAP:



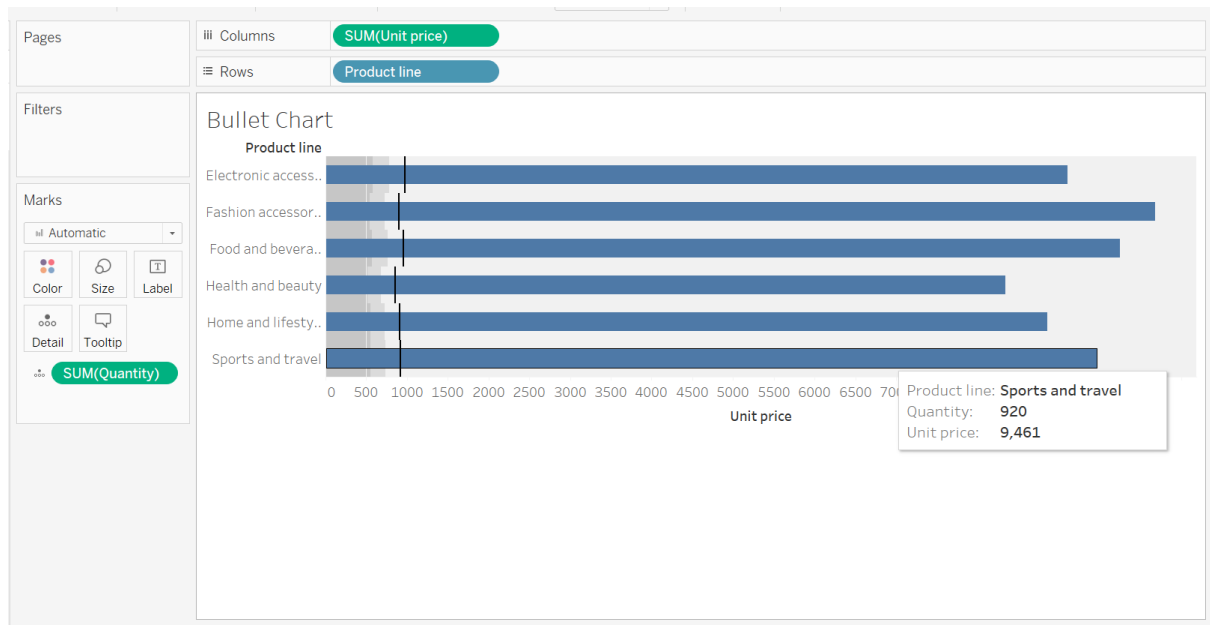
## SYMBOLIC MAP CHART:



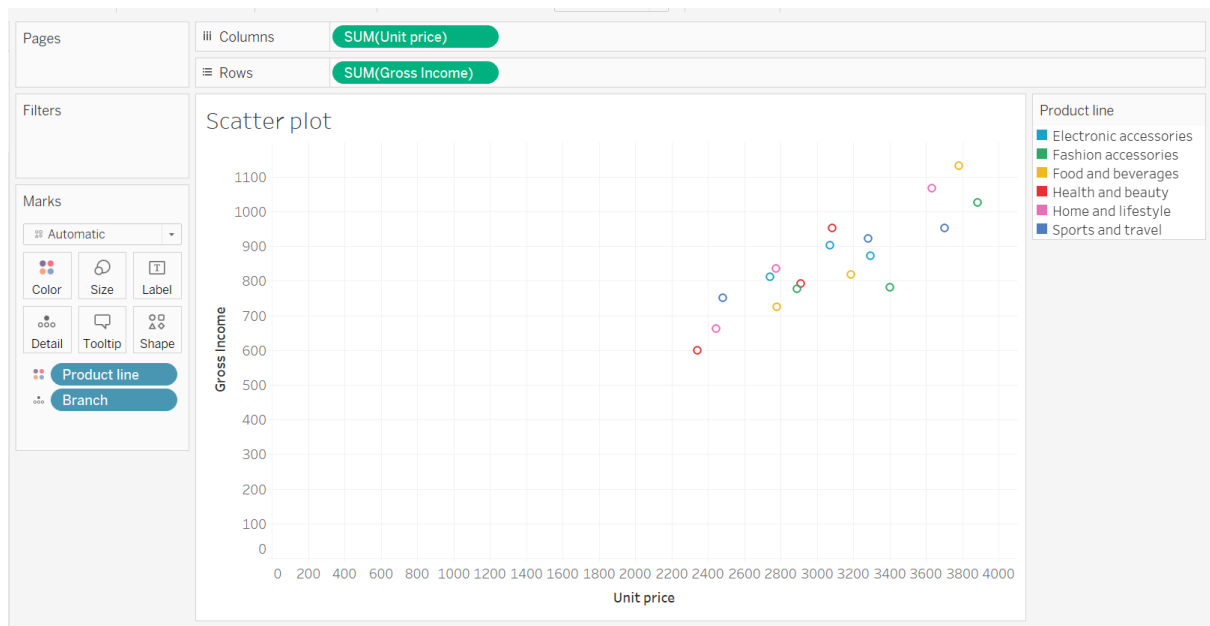
## MOTION CHART:



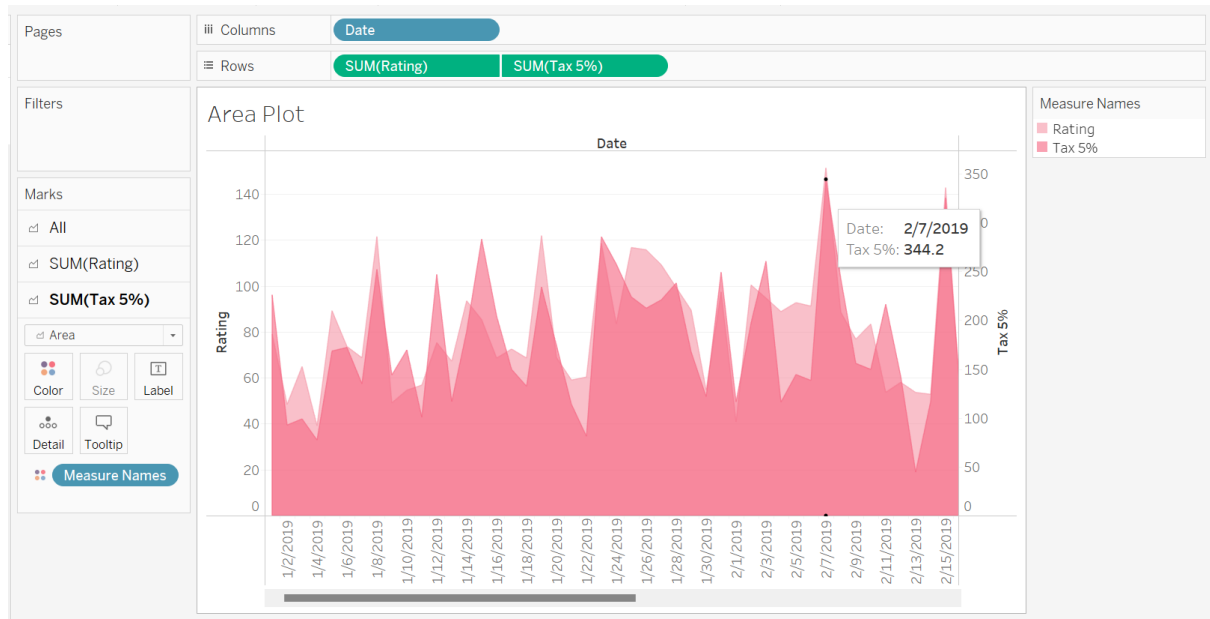
## BULLET CHART:



## SCATTER PLOT:



## AREA PLOT:



## LINE CHART:

