

ASSIGNMENT 2

TITLE :

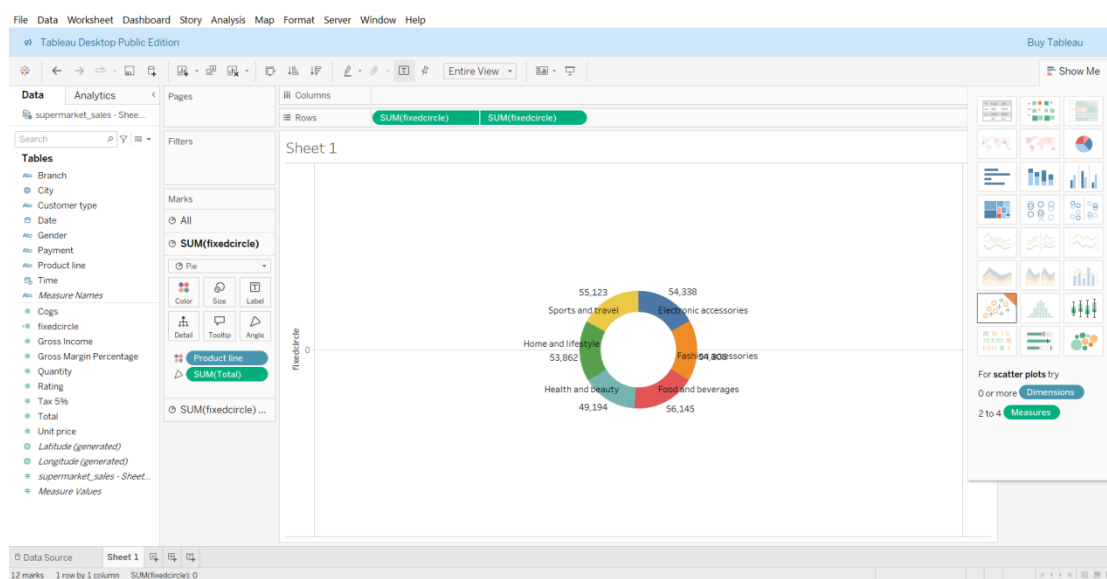
Visualization Tool for Electric Vehicle Charge and Range Analysis.

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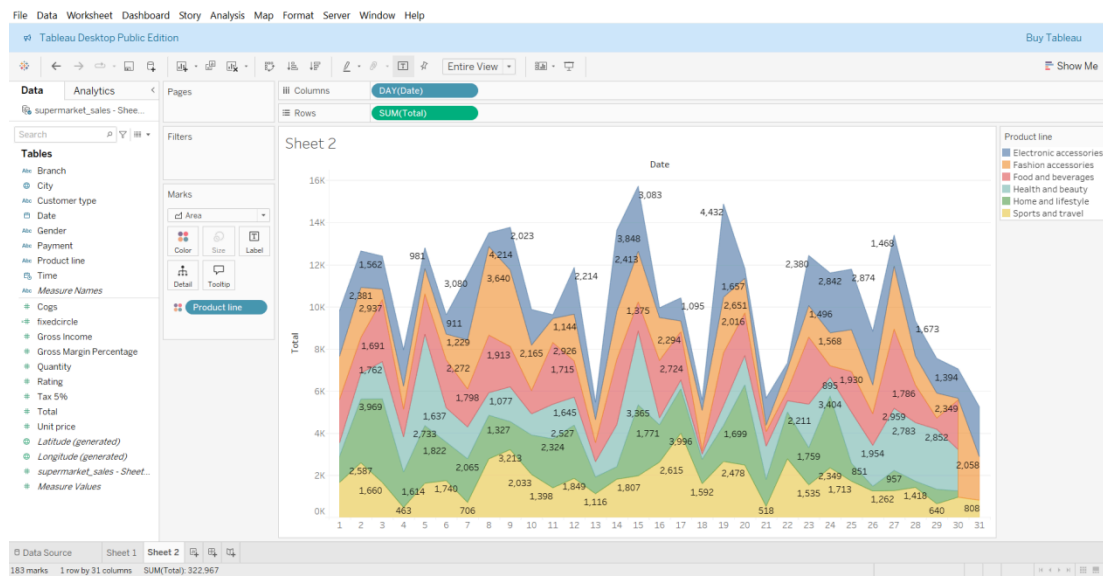
DONUGHT CHART

- ✓ We create a calculation field named as fixed circle with a value '0'.
- ✓ Then place a 'fixed circle' in row shelf, make mark card as 'pie' , then place another 'fixed circle' in row shelf , and set is as dual axis.
- ✓ Change its color to different color from outer pie, decrease the size to differentiate it from outer pie to inner pie , making it as a donught chart.
- ✓ Then place 'product line' in color shelf of marks card, 'total' in angle shelf of outer pie.
- ✓ Then place 'product line' in the angle shelf of the inner pie.
- ✓ Hence , this will visualize a donught chart.



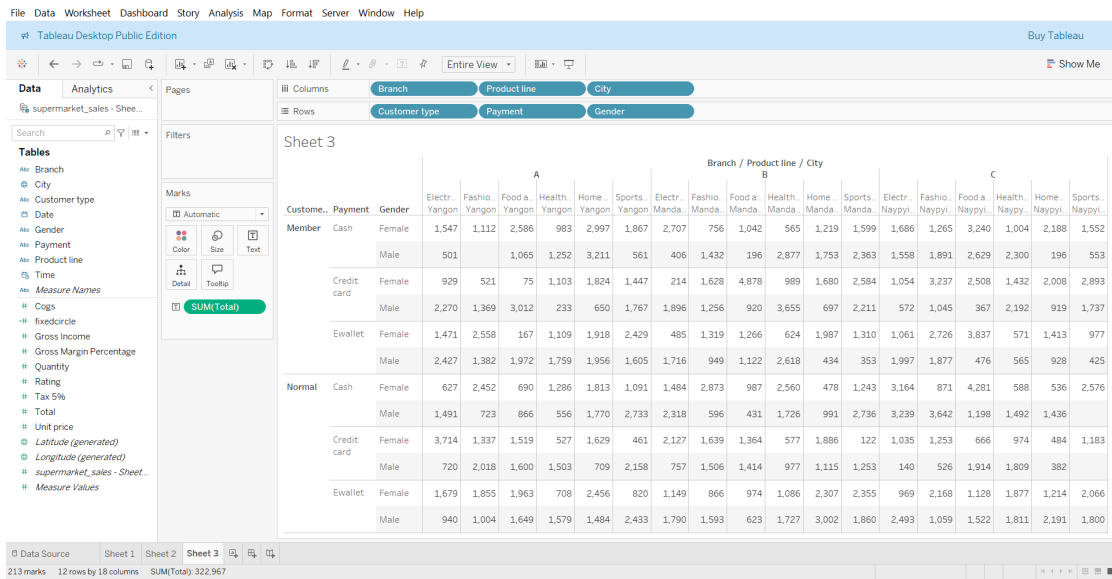
AREA CHART

- ✓ Place 'date' in columns field, modify the date to day wise of the data.
- ✓ Place 'total' in row field.
- ✓ Choose area in marks card.
- ✓ Place 'product line' in the color shelf of the marks card.



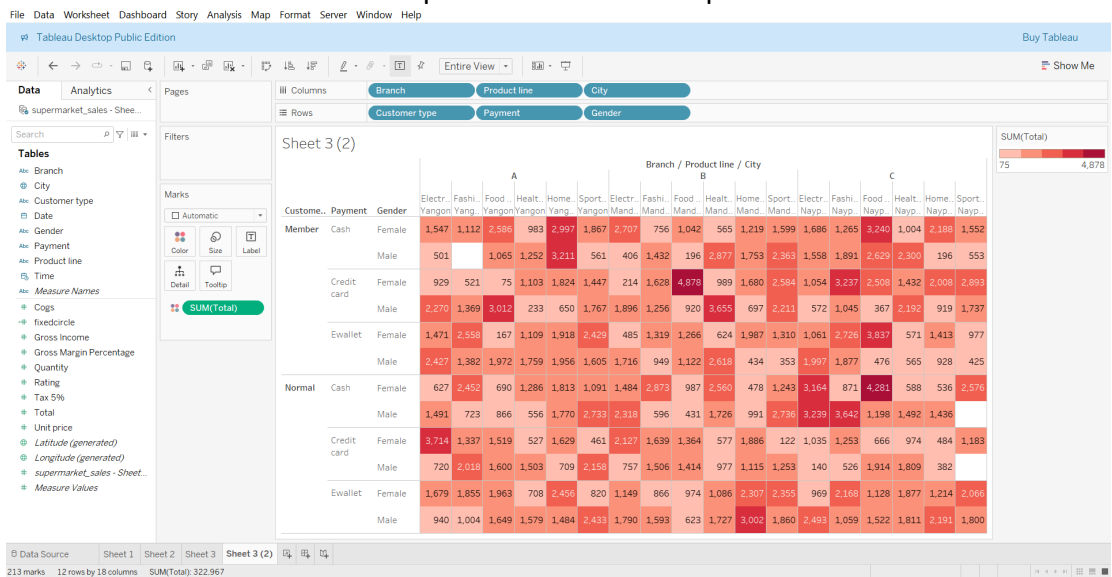
TEXT TABLE

- ✓ Place 'branch', 'product line', 'city' in the columns field.
- ✓ Place 'customer type', 'payment', 'gender' in the rows field.
- ✓ Make sure the representation is in the form of text in the marks card.



HIGHLATED TABLE

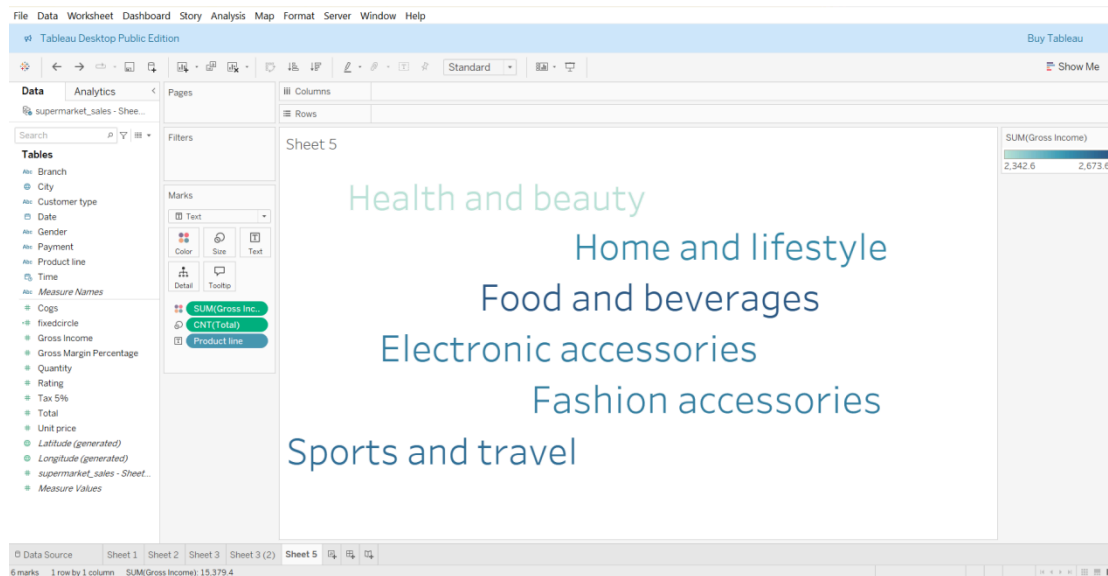
- ✓ Use the same fields as used in the text table.
- ✓ The only difference in the highlate table is that it places ‘total’ field in the color shelf of the marks card to represent the value deepness.



WORD CLOUD

- ✓ Place ‘product lines’ field in the text shelf of the marks card.
- ✓ Place ‘total’ field in the size shelf of the marks card

- ✓ Place 'gross income' filed in the color shelf to provide colors of the text in the marks card
- ✓ Make sure to convert the automatic mode to text in the marks card to visualize the data in the form of word cloud.



FUNNEL CHART

- ✓ Place 'total' in the row field.
- ✓ Create a calculation filed named as 'funnel stage' that contains

```
IF [Customer type] = "Member" THEN "1. Member Customers"
ELSE "1. Normal Customers"
END
```

+

" → "

+

[Product line]

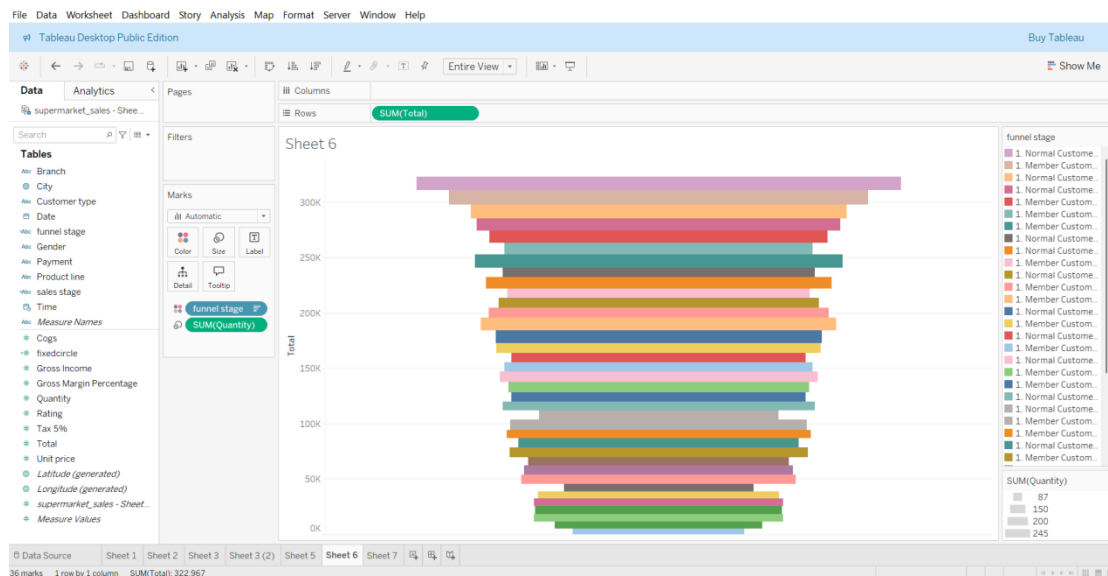
+

" → "

+

[Payment]

- ✓ Now add 'funnel stage' to color shelf and 'quantity' to size shelf of the marks card
- ✓ Sort the size of the fields by changing it to descending to make it appear as funnel .



WATERFALL

- ✓ Create a calculation field named as 'commulative sum' that contains `RUNNING_SUM(SUM([Total]))`
- ✓ Place 'total' in the row filed and 'date' modified to day is placed in column field.
- ✓ Place 'total' in color and size shelves of marks card
- ✓ Place aggregation operator on total , perform running total on 'total' in rows field.
- ✓ Place gantt bar in marks card.
- ✓ Make changes in color field by making stepped colors to 2 and centre to 0,
- ✓ So these changes provides colors where dark colors represents the negative values and light colors represents the positive values.
- ✓ Choose the 'show row grand totals' in analysis option which is important in waterfall model.

