ASSIGNMENT – 2

Data Analytics

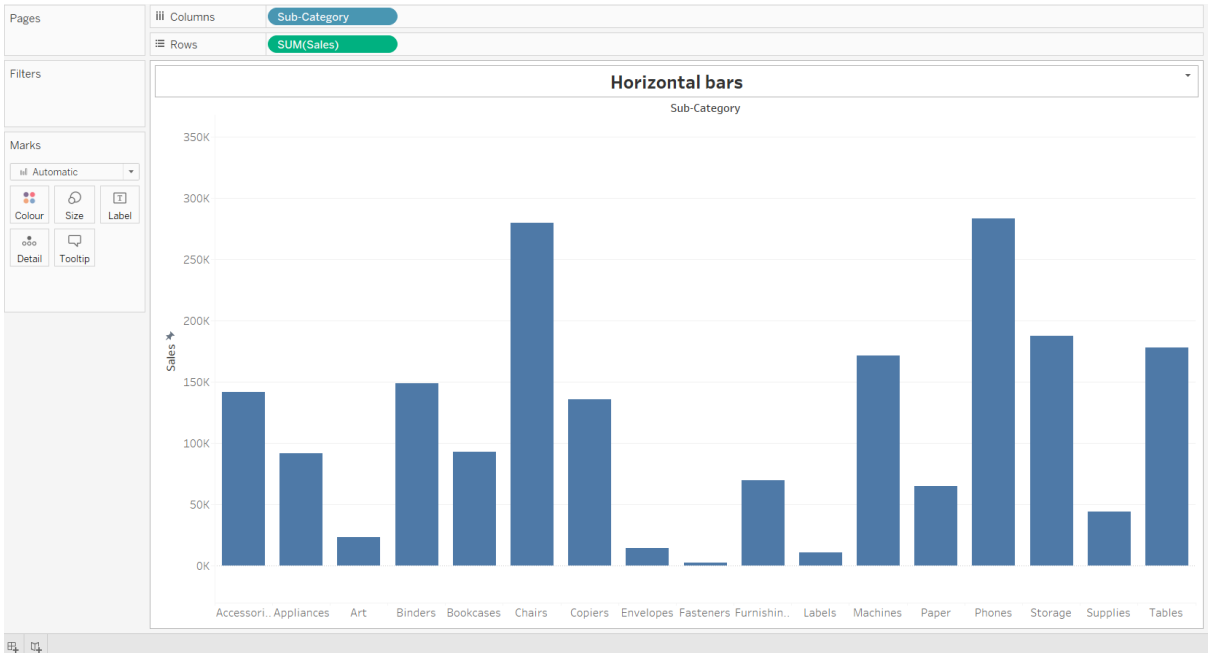
Name - NOMAN KHAN

Rg.No- 20BCE2600

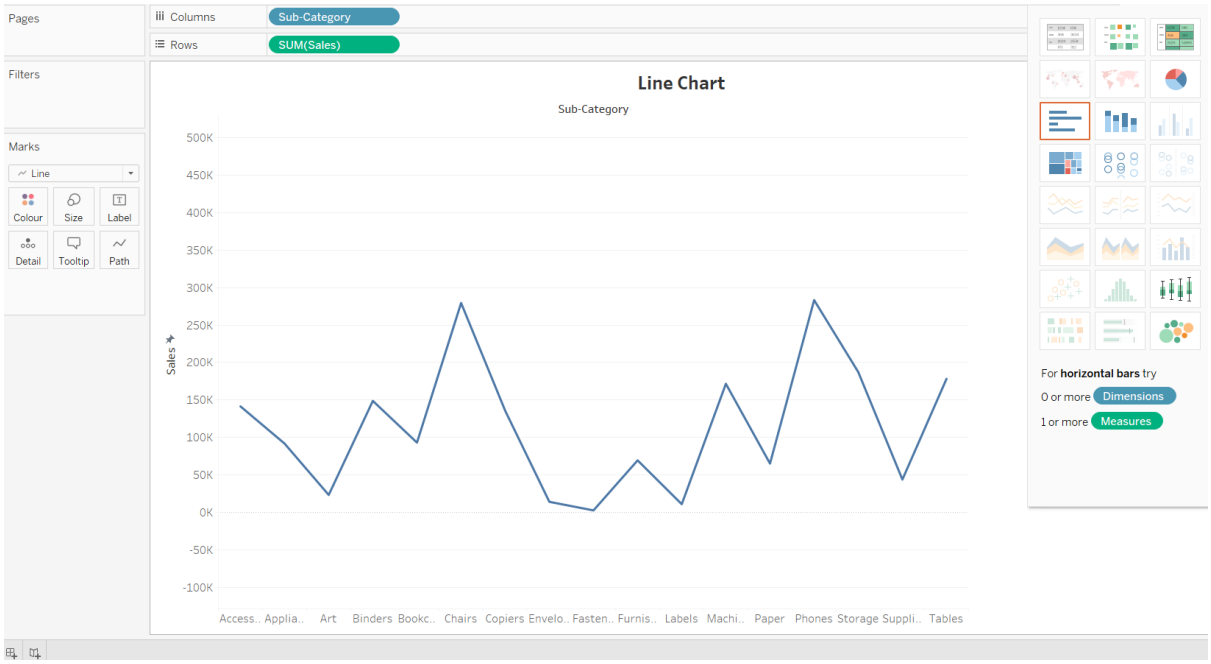
Gmail - noman.khan2020@vitstudent.ac.in

1) Create any 7 data visualizations/charts and perform the following

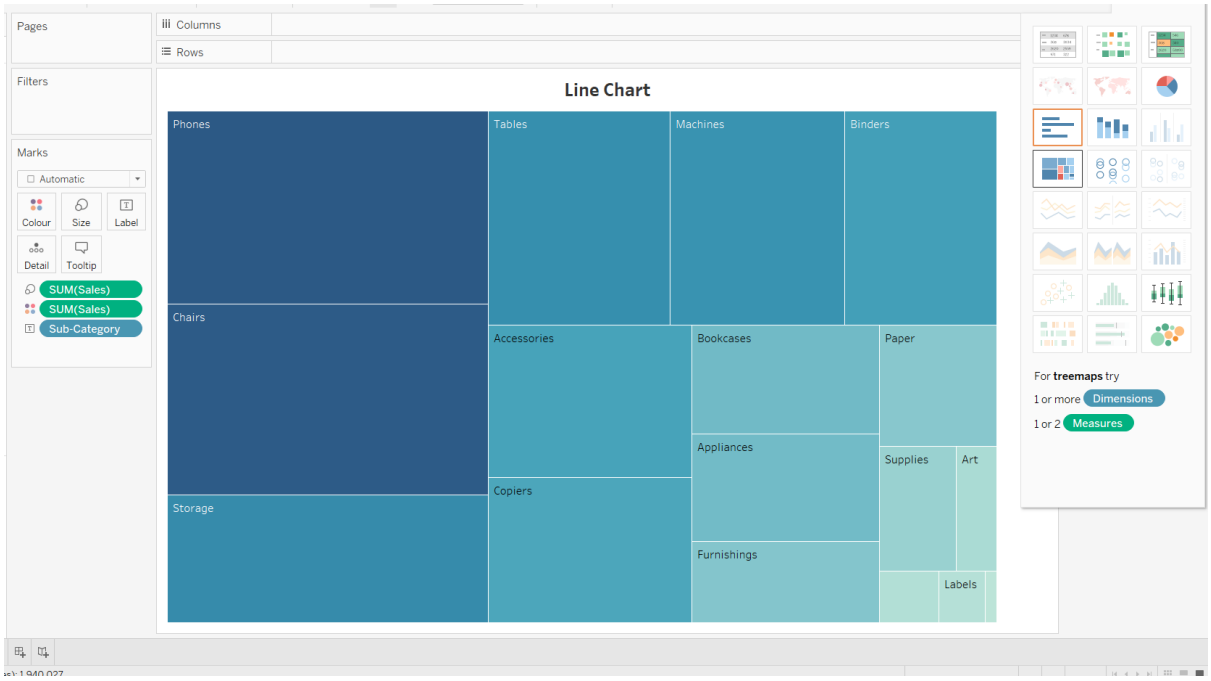
Horizontal Bar chart -



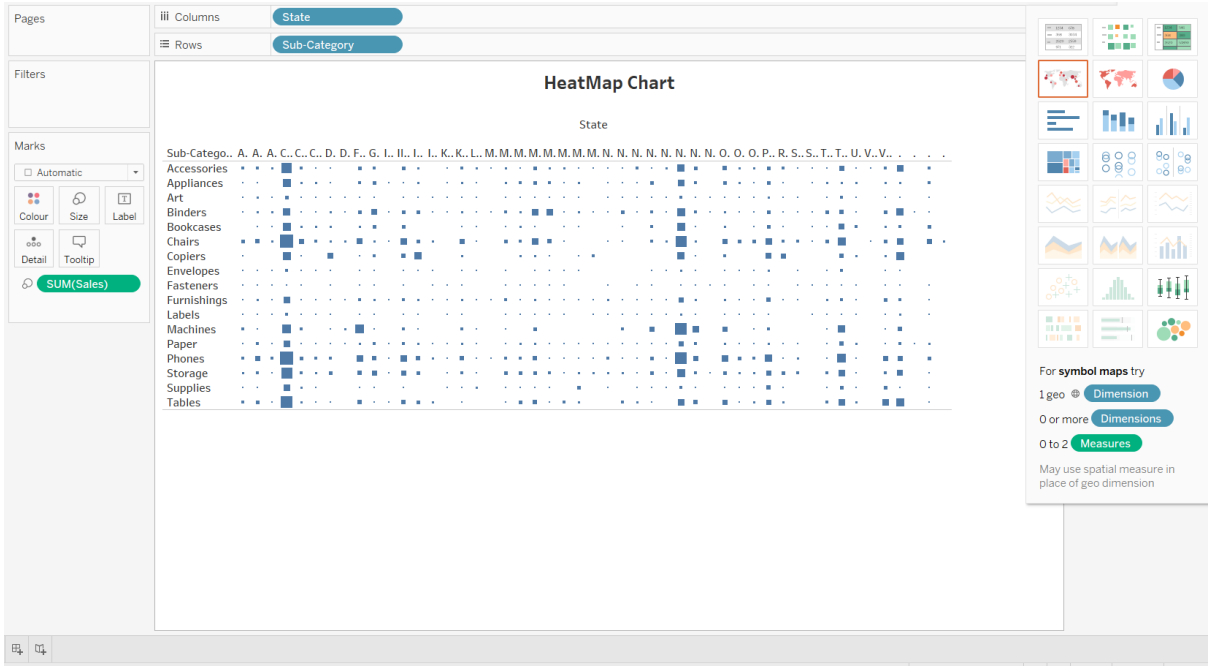
Line Chart –



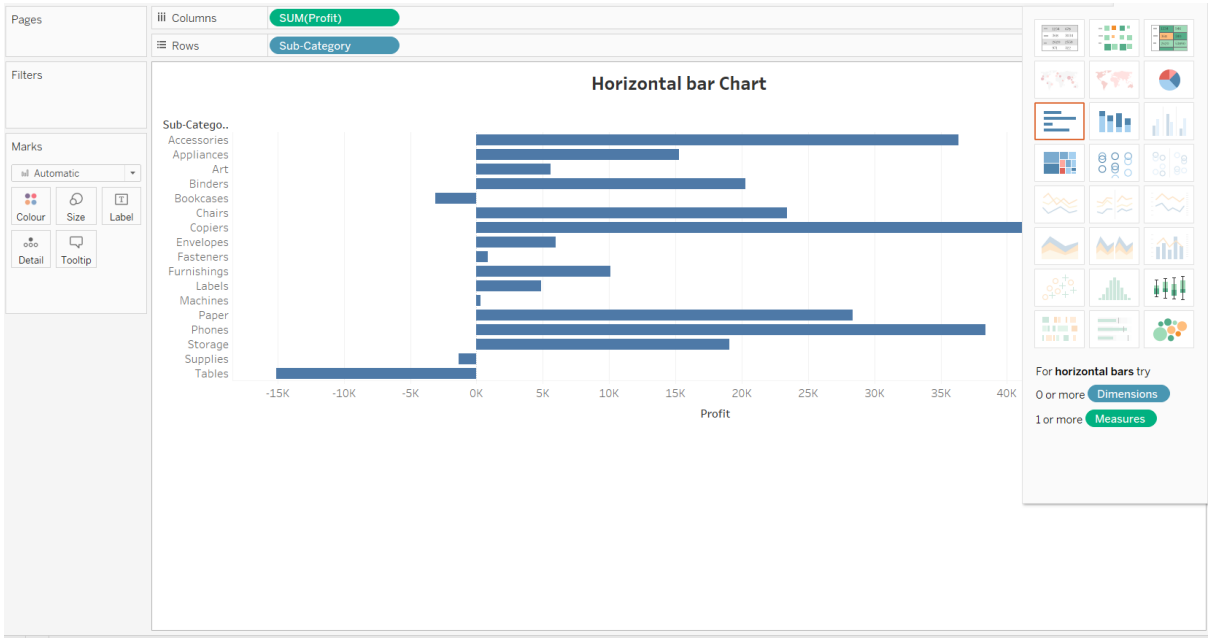
Tree Map -



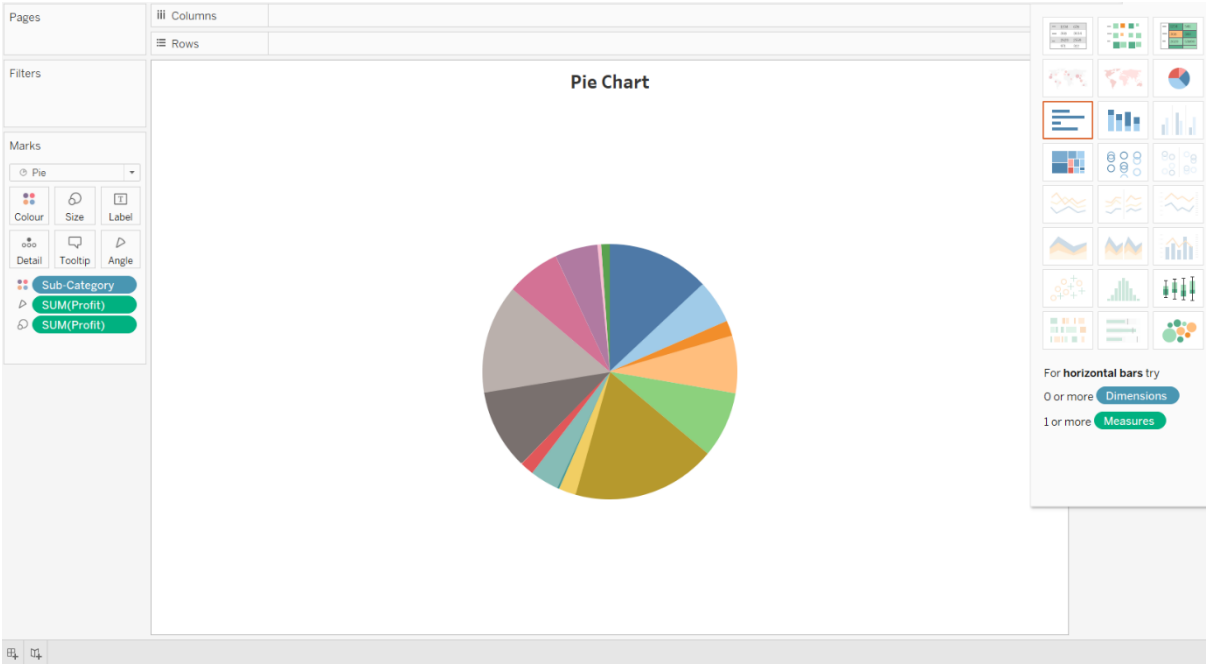
HeatMap -



Horizontal bar Chart -



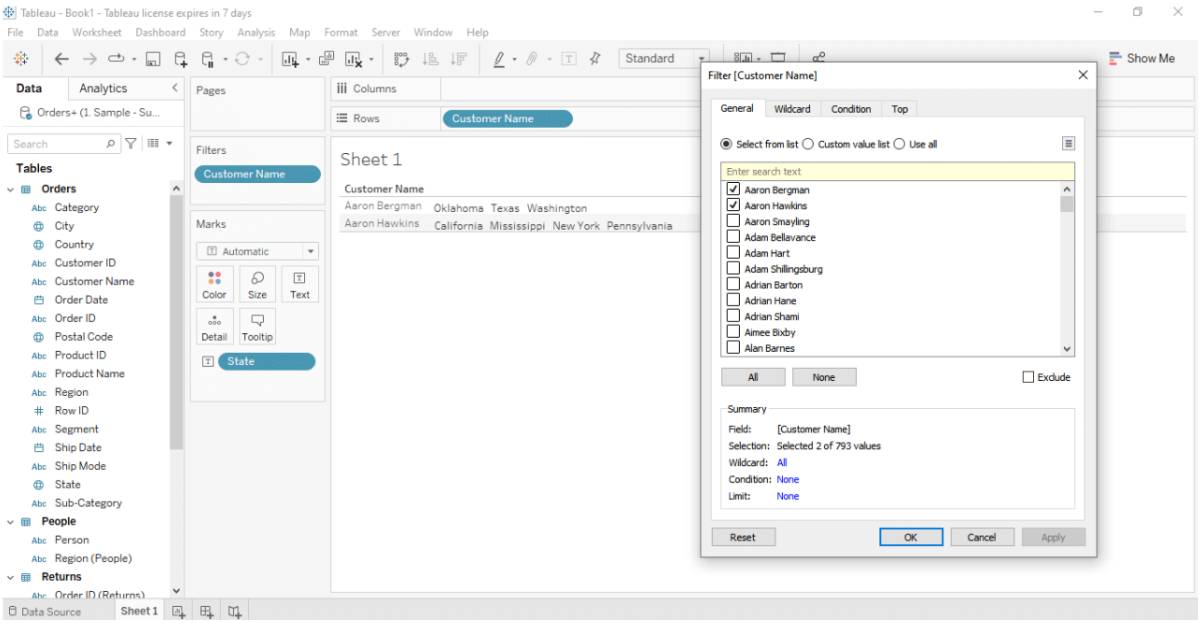
Pie Chart –



2. Apply dimension filter, context and measure filter on any of the three visualizations

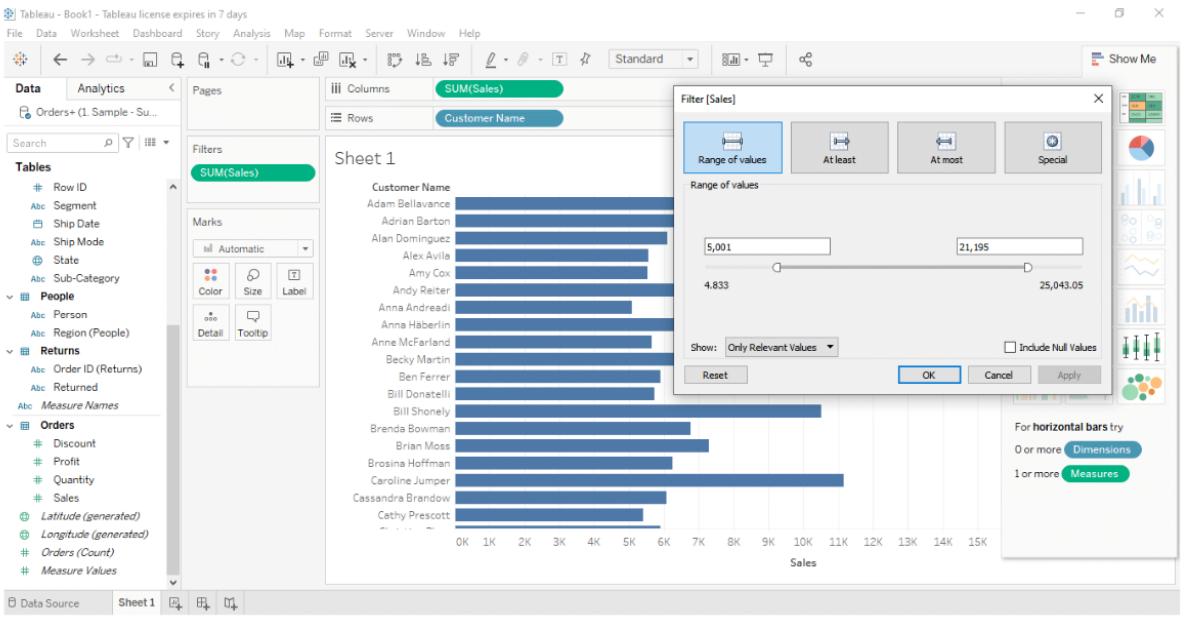
Dimension Filter –

Dimension filters in Tableau are non-aggregated filters. The dimensions that are used are mostly blue pills. Blue pills correspond to discrete data. The dimension filter can be applied by dragging it from the Filters pane. The same can also be achieved by right-clicking on a particular dimension and selecting Show Filter. This way, one can exclude or include the values that they want to analyze.



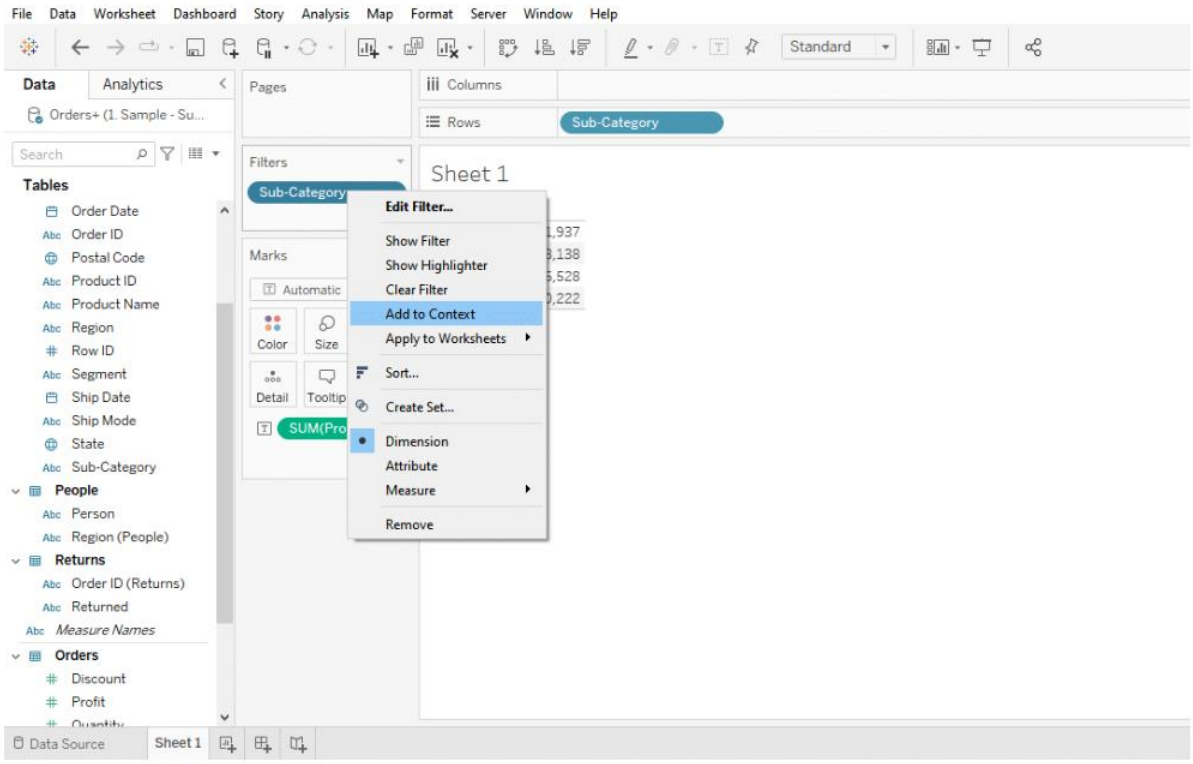
Measure Filter

Using a Measure filter in Tableau allows for various operations and aggregate functions such as sum, median, avg, standard deviation, etc. Aggregated filters are always applied after non-aggregated filters, no matter what the order is on the Filters pane. The filters are applied to Measure fields consisting of quantitative data.



Context Filter

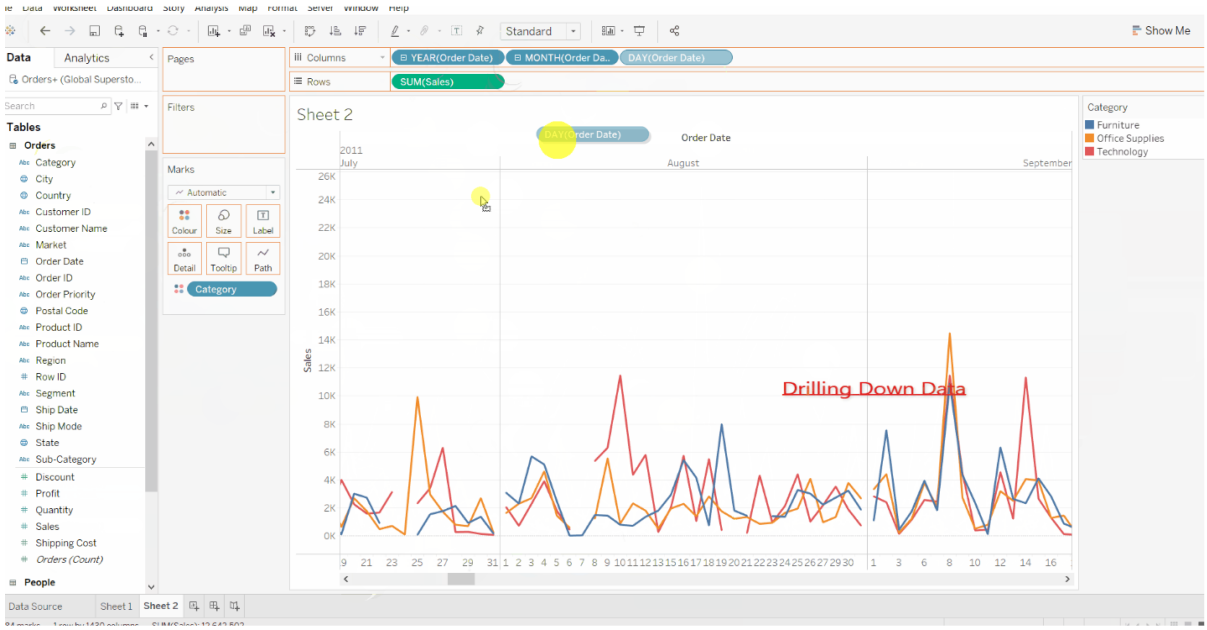
Context filter in Tableau can help to create data sets by applying relevant presets for compilation. Tableau context filter is always processed and applicable first, even if other filters are applied. The multiple preset categories in the worksheet can be divided into many more parts that end up working like a context filter in itself. Data sets are created based on the original datasheet, and data can be minimized efficiently to allow for viewing all data rows despite the constraints. The sheets can be chosen as and when needed.



3) Perform the following data manipulations on your dataset

- **create a Hierarchy**
- **create a set**
- **create a group**

create a Hierarchy –



Create a Set -

The members of a fixed set do not change, even if the underlying data changes. A fixed set can be based on a single dimension or multiple dimensions.

To create a fixed set:

1. In the visualization, select one or more marks (or headers) in the view.
2. Right-click the mark(s) and select **Create Set**.


Pages
Columns
SUM(Profit)
Rows
SUM(Sales)
Filters
Marks
Circle
Color
Size
Label
Detail
Tooltip
AGG(Profit Rati..
Product Name
Sub-Catego..
AGG(Profit Ratio)
-275%
50%
$25,000
$20,000
$15,000
$10,000
$5,000
$0
Sales
-$8,000
-$6,000
-$4,000
-$2,000
$0
$2,000
$4,000
$6,000
$8,000
Profit

⬅========== Thankyou ==========➡