



Q1: Use the Superstore data to develop a visualization to show how long it takes, on average, for orders to ship (the time it takes to ship an order after the order is received) on a monthly basis. (Hint - this will require a calculation.). How does the average shipping time vary by state?

Q2: Use the Superstore data to produce a visualization to help managers understand annual growth (or lack thereof) in profit by state.

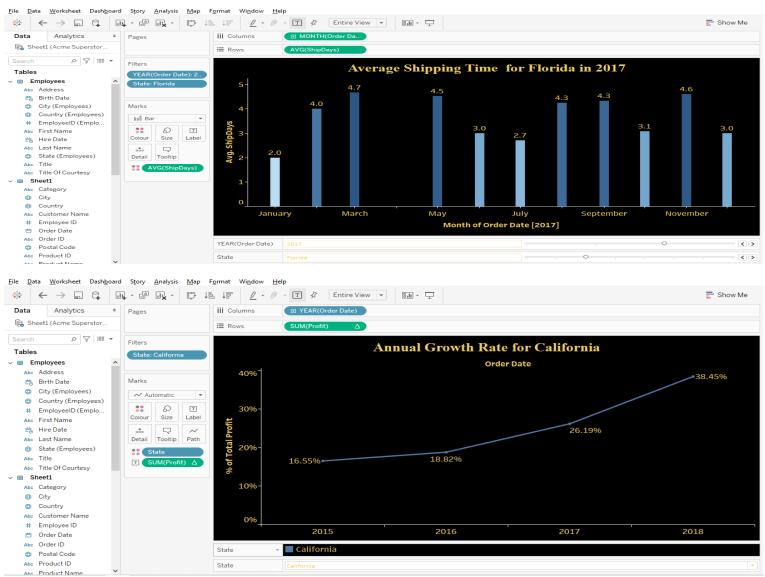
Q3: Use the Employees data to create a visualization that shows the number of customers per salesperson. Please display the salesperson's last name, not their ID. (Hint - you will need to join multiple tables so that the orders placed are attached to the employee who helped to place the order)

Q4: Use the Employees data to produce a visualization that shows total Sales by SalesPerson and City to analyze which salesperson is selling how much, and where they are selling.



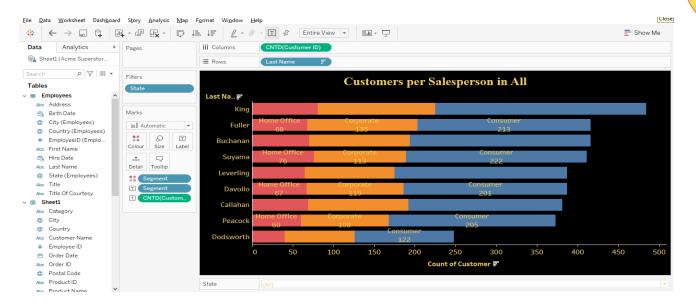


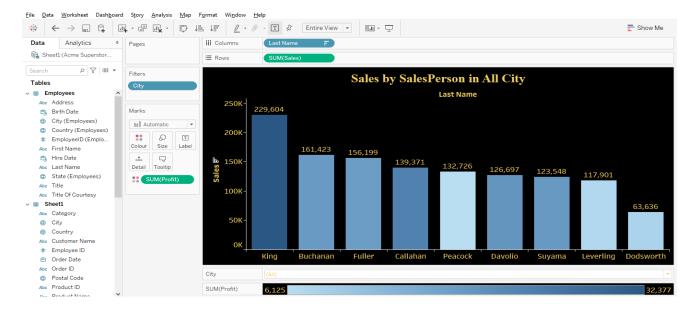






# test

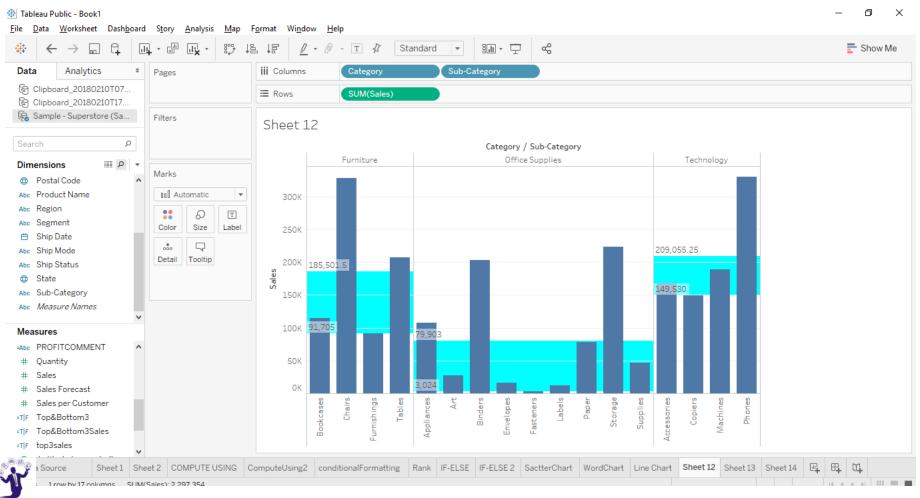






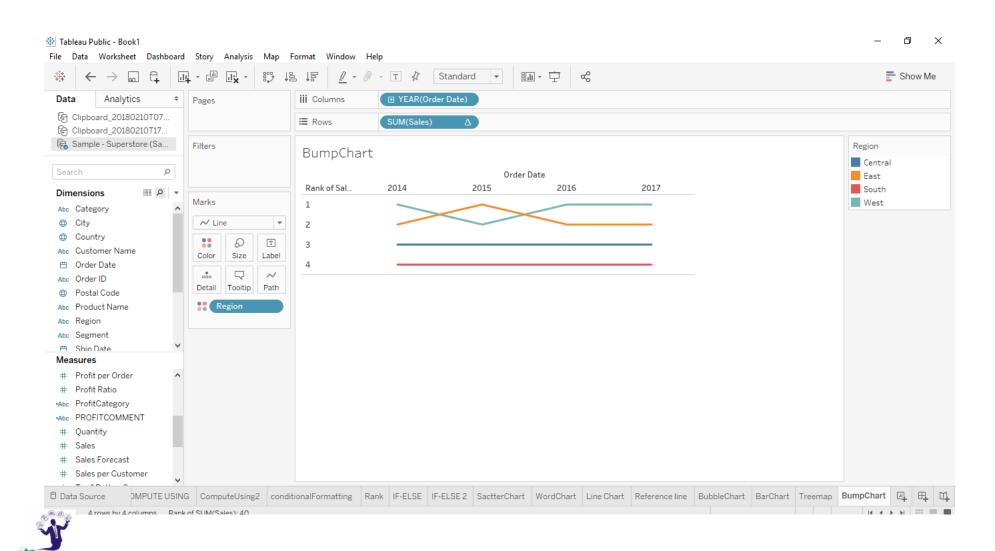
#### **CHARTS**

**Reference Lines**: These are used to indentify / highlight the values with respect to a certain level. Eg: If we need to identify the below average and above average sales. To add a reference line right click on X axis and click on add reference line.



#### **CHARTS**

**Bump Chart**: It is the line chart where the rank changes with time.

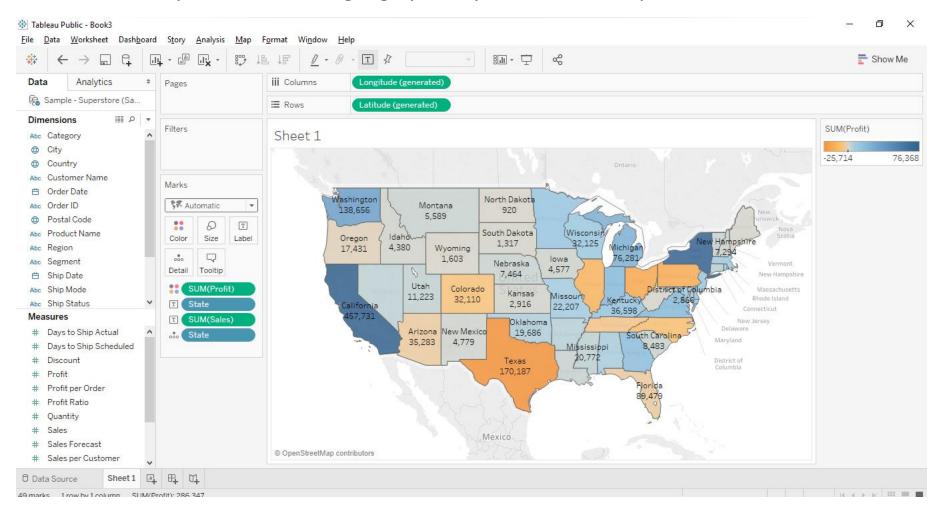






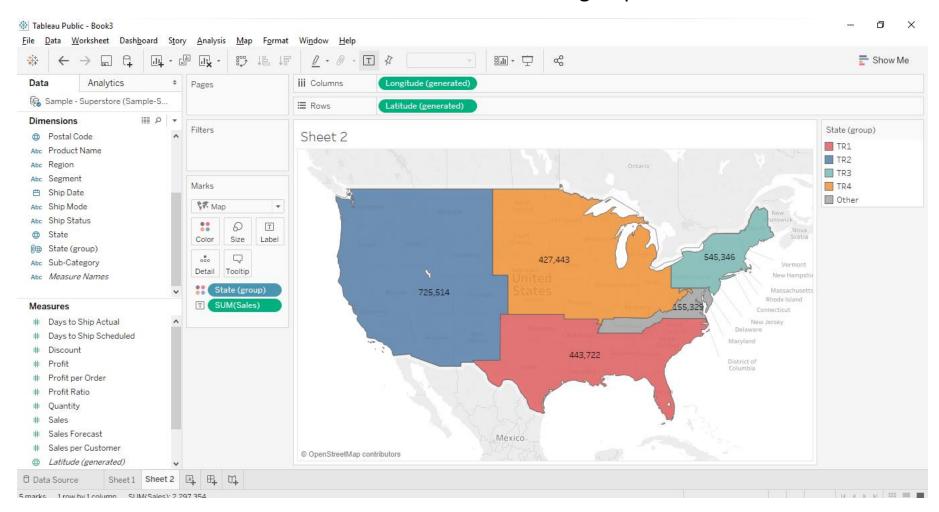
- 1. Create a Scatter chart to represent profit & sales for each segment.
- 2. Represent State wise sales using Word map.
- 3. Use a line graph to represent monthly Profit, Min & Max profit along with the month should be displayed.
- 4. Represent profit using a Bar chart category & Subcategory wise, focus should be on subcategories following above average (reference line).
- 5. Represent Region wise Sales & Profit using Bubble Chart
- 6. Tree map to represent Category, Segment, Region wise Sales
- 7. Adv Funnel to represent subcategory Sales
- 8. Represent segment wise profit using Pie Chart
- 9. Represent Subcategory wise profit using water fall chart

MAPS: To represent the data geographically we create a Map chart.



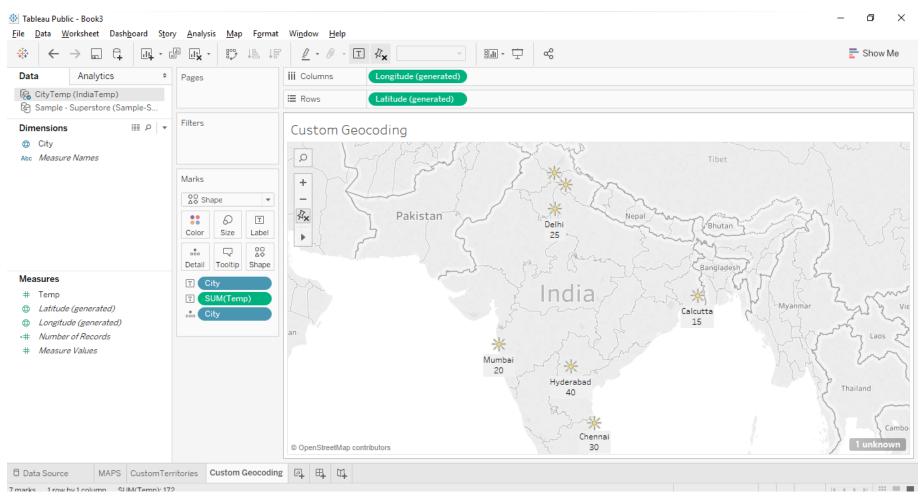
We can manipulate the maps using map options, map layers, Custom Territories

#### **Custom Territories**: These are used to create custom groups.



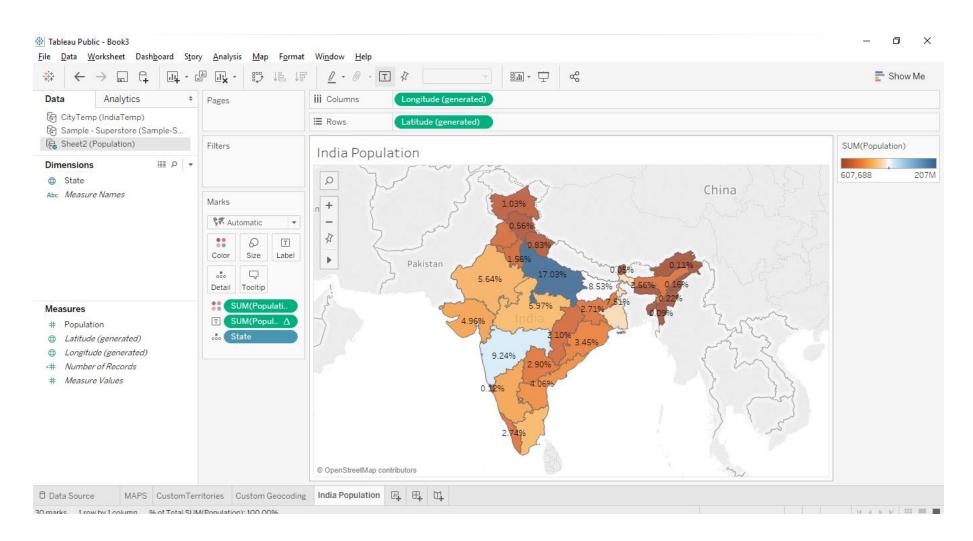


**Custom Geo-coding**: These are used to customize the geographic area not recognized by tableau. groups.





India Map: Display the population of various states in India.





# **Worksheet Options**

- Create a new sheet. Ctrl+M
- Rename a sheet
- Delete
- Copy & Paste
- Duplicate
- Duplicate as Crosstab
- Export
- Copy Formatting & Paste Formatting
- Describe Sheet
- Show Title
- Show Caption
- Show Summary
- Show Cards
- Show View Toolbar
- Highlighting





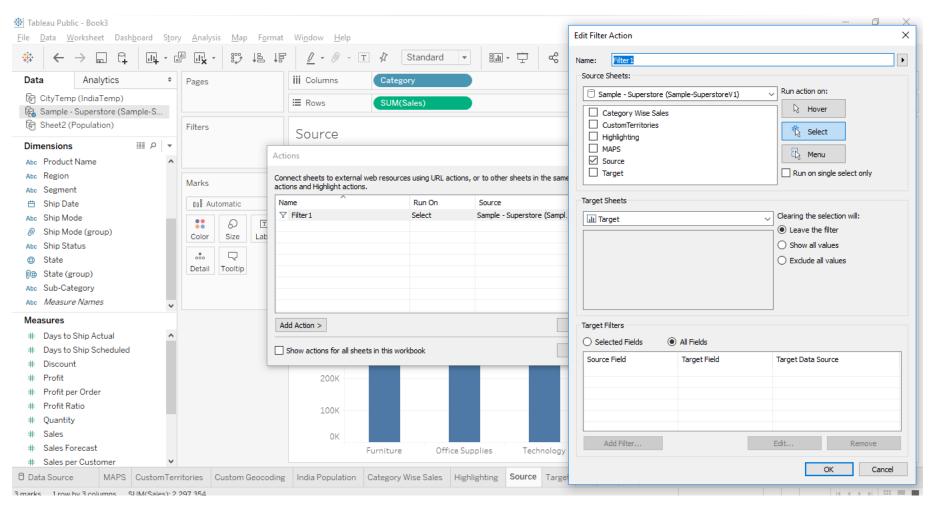


- Create a Category interactive sales bump chart to display subcategory wise bumps on the basis of years.
- Represent the state wise population percentage of India using MAP.
- Create a Region Interactive Horizontal Bar chart to represent Category & Subcategory wise Profit. The Chart should also display Dynamic Title & Caption.



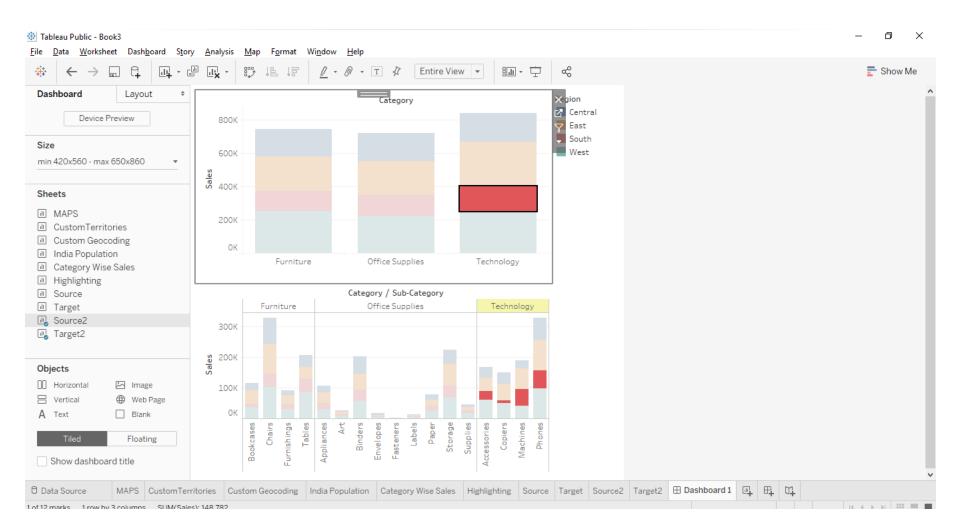
Actions: These are the activities performed when we trigger an event.

Actions Filter: Target visual will be filtered with reference to source visual.



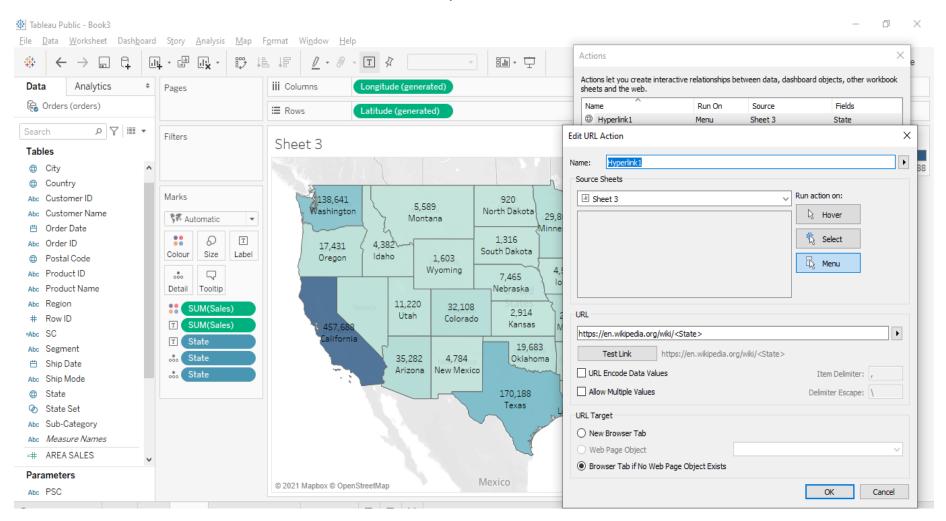


Actions Highlight: Using this feature highlighting will be done with some event.





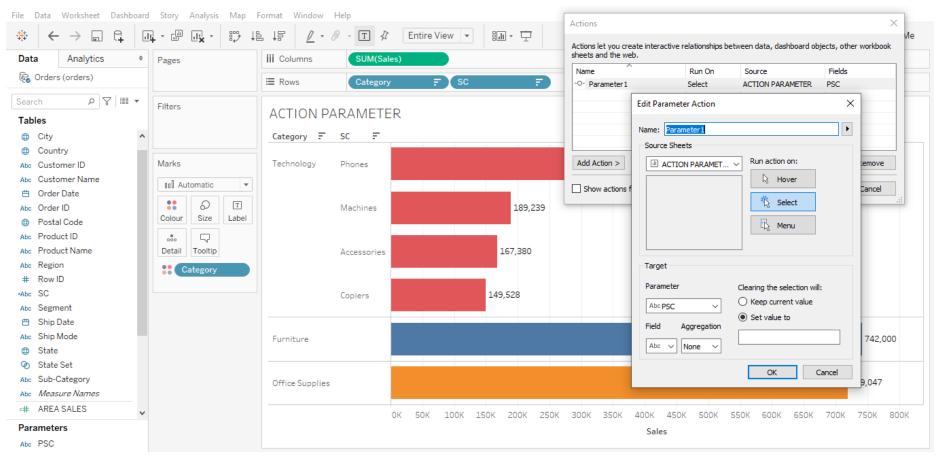
**Actions URL**: This feature allows us to open a browser when some event occurs.





**Actions Parameter**: This feature allows us to dynamically set the value of the parameter.

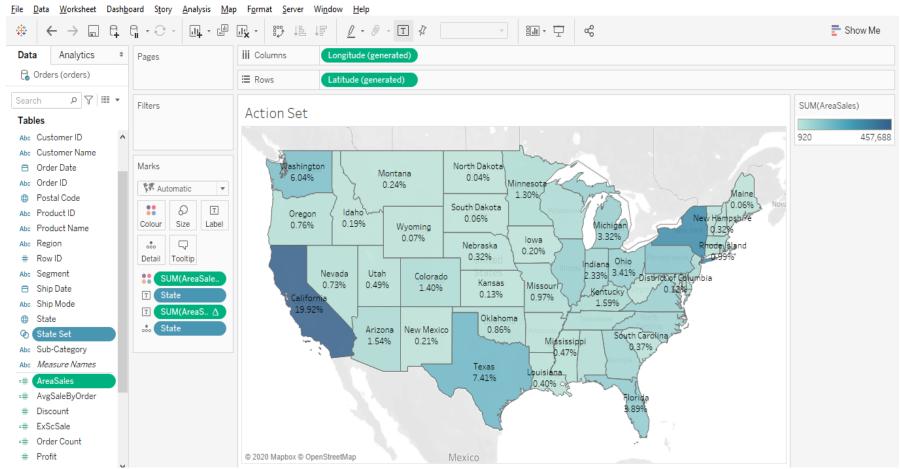
- Create a parameter
- Create a Calculated field
- Assign action to assign the value to the parameter





**Actions Set**: This feature allows us to dynamically pass the values to the set.

- Create a Set
- Create a Calculated field
- Assign action to set









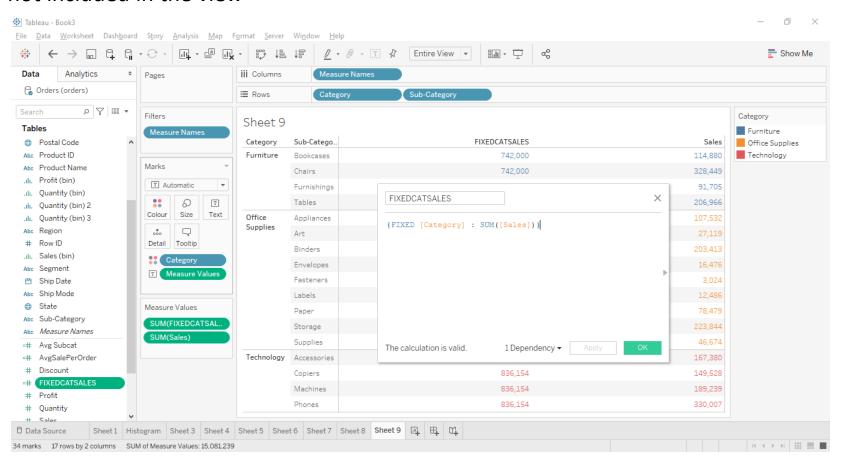
- Using India Map Represent state wise percentage of Covid cases.
- In the another sheet create a bar chart to represent state wise Total Covid Cases, Recovered & Deaths.
- Use action so that the bar graph representation of Covid details should be displayed for the highlighted state.
- In sheet 1 represent Category & Region wise profit, category should be bifurcated on the basis of region.
- In sheet 2 represent Category, Subcategory & Region wise profit.
- Implement an Action on sheet 1 so that sheet 2 which is filtered on region
  & subcategory for the selected region in sheet 1.
- Create a US Map to display the %age sales contribution of each state. Implement an set action to give the sales comparison of the selected area.
- Represent segment wise profit using a barchart, Implement a action
  Parameter so that it can be drill down to region.



### **LOD Calculations**

Level of detail expression allows us to compute aggregation that are not on level detail of the visualization

FIXED – Include the expression immaterial of it being included in the visualization is not included in the view

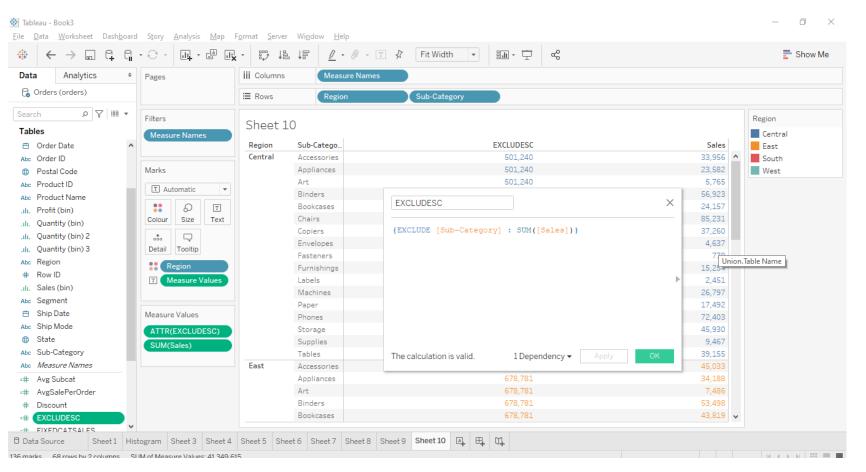




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EXCLUDE – exclude the expression even if it is included in the view

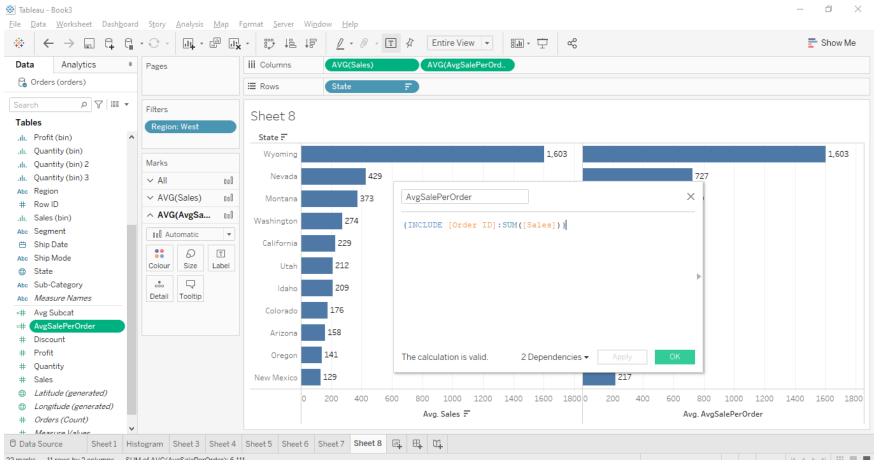




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<u>INCLUDE</u> – Include the expression even if it is not included in the view

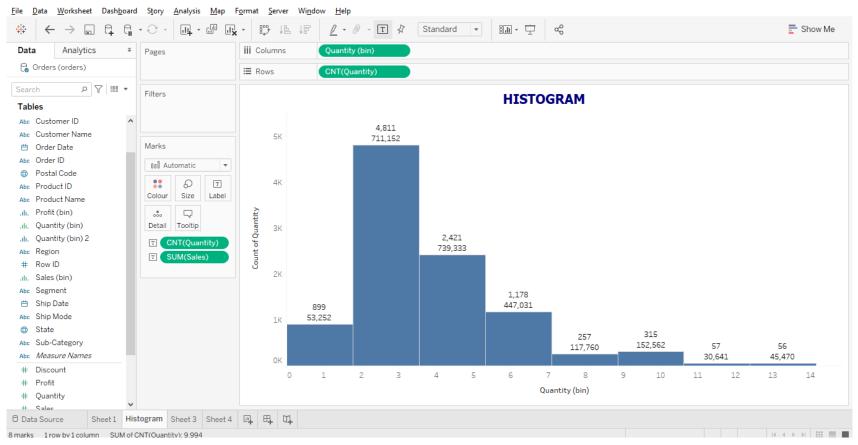




# Histogram

Histogram is same like bar chart however, it groups the values into range. Each bar in histogram represents the number of values present in that range.

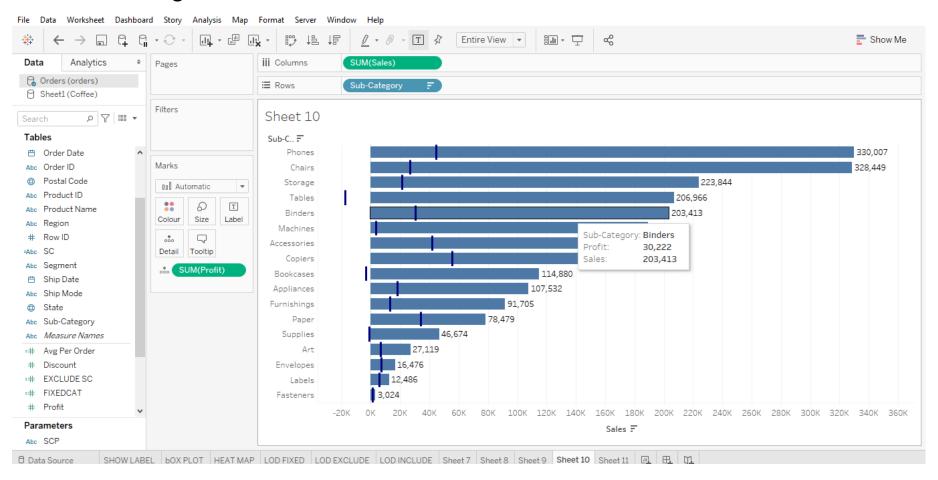
Tableau creates a histogram by taking one measure. It creates an additional bin field for the measure used in creating a histogram.





#### **Bullet Chart**

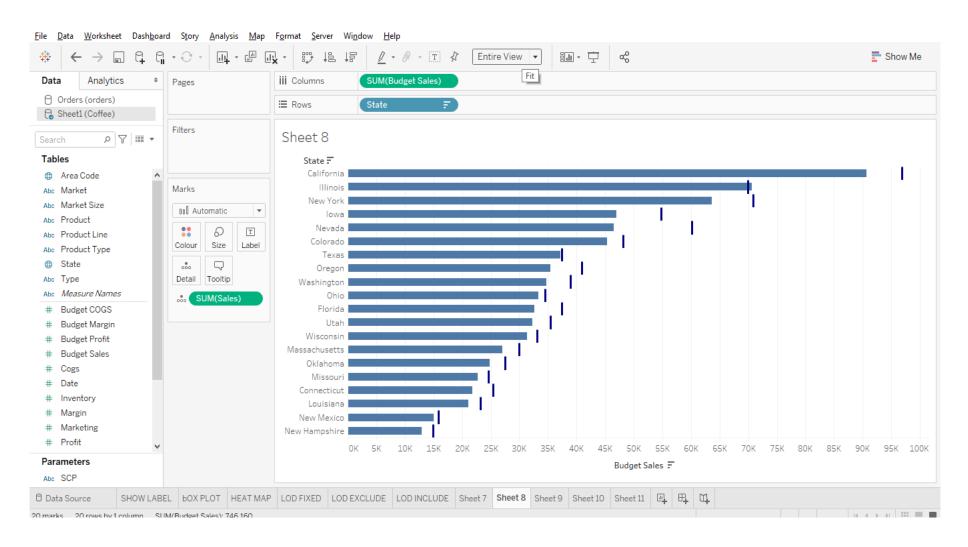
Bullet Chart is a variation of Bar graph, used to compare value of one measure with another measure in the context of finding the variation in the first measure within a range of variations in the second measure.





#### **Bullet Chart**

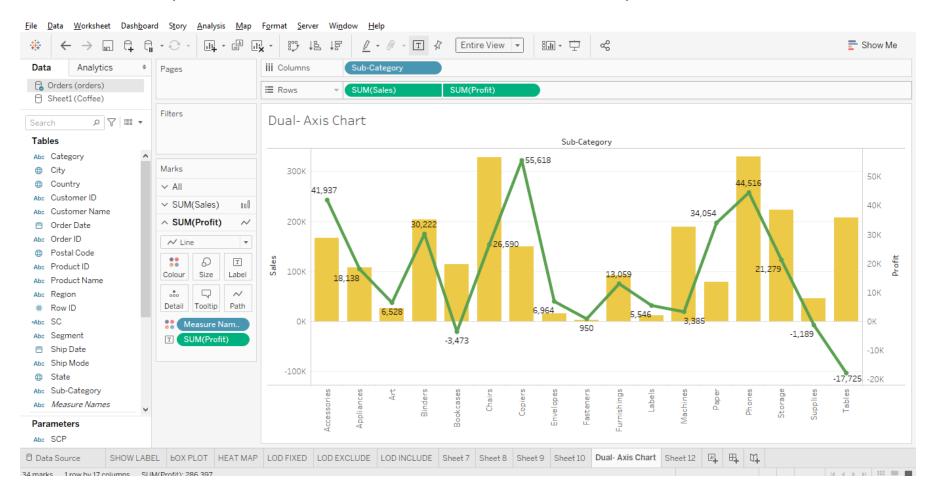
Comparison of Sales target and Actual sales (Coffee Data Source)





#### **Dual-Axis Chart**

In Dual Axis chart we have two Y – Axis. These are helpful when we want to see the relationship between two or more variables in a limited space and in one view.





#### **Combined Chart**

#### In Combined Chart two or more measures are plotted on same Y-Axis

