

Actions

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

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

The screenshot shows the Tableau Public interface with a dashboard titled 'Tableau Public - Book3'. The dashboard displays a bar chart of sales by category (Furniture, Office Supplies, Technology) with a profit margin. The 'Columns' shelf contains 'Category' and the 'Rows' shelf contains 'SUM(Sales)'. The 'Filters' shelf is empty. The 'Marks' shelf is set to 'Automatic'. The 'Dimensions' list includes Product Name, Region, Segment, Ship Date, Ship Mode, Ship Mode (group), Ship Status, State, State (group), Sub-Category, and Measure Names. The 'Measures' list includes Days to Ship Actual, Days to Ship Scheduled, Discount, Profit, Profit per Order, Profit Ratio, Quantity, Sales, Sales Forecast, and Sales per Customer. The 'Edit Filter Action' dialog box is open, showing the 'Filter1' action. The 'Source Sheets' list includes 'Sample - Superstore (Sample-SuperstoreV1)'. The 'Run action on:' options are 'Hover', 'Select' (selected), and 'Menu'. The 'Target Sheets' list includes 'Target'. The 'Clearing the selection will:' options are 'Leave the filter' (selected), 'Show all values', and 'Exclude all values'. The 'Target Filters' section shows 'Selected Fields' and 'All Fields' (selected). The 'Source Field', 'Target Field', and 'Target Data Source' columns are empty. The 'Add Filter...' button is visible at the bottom of the dialog box.

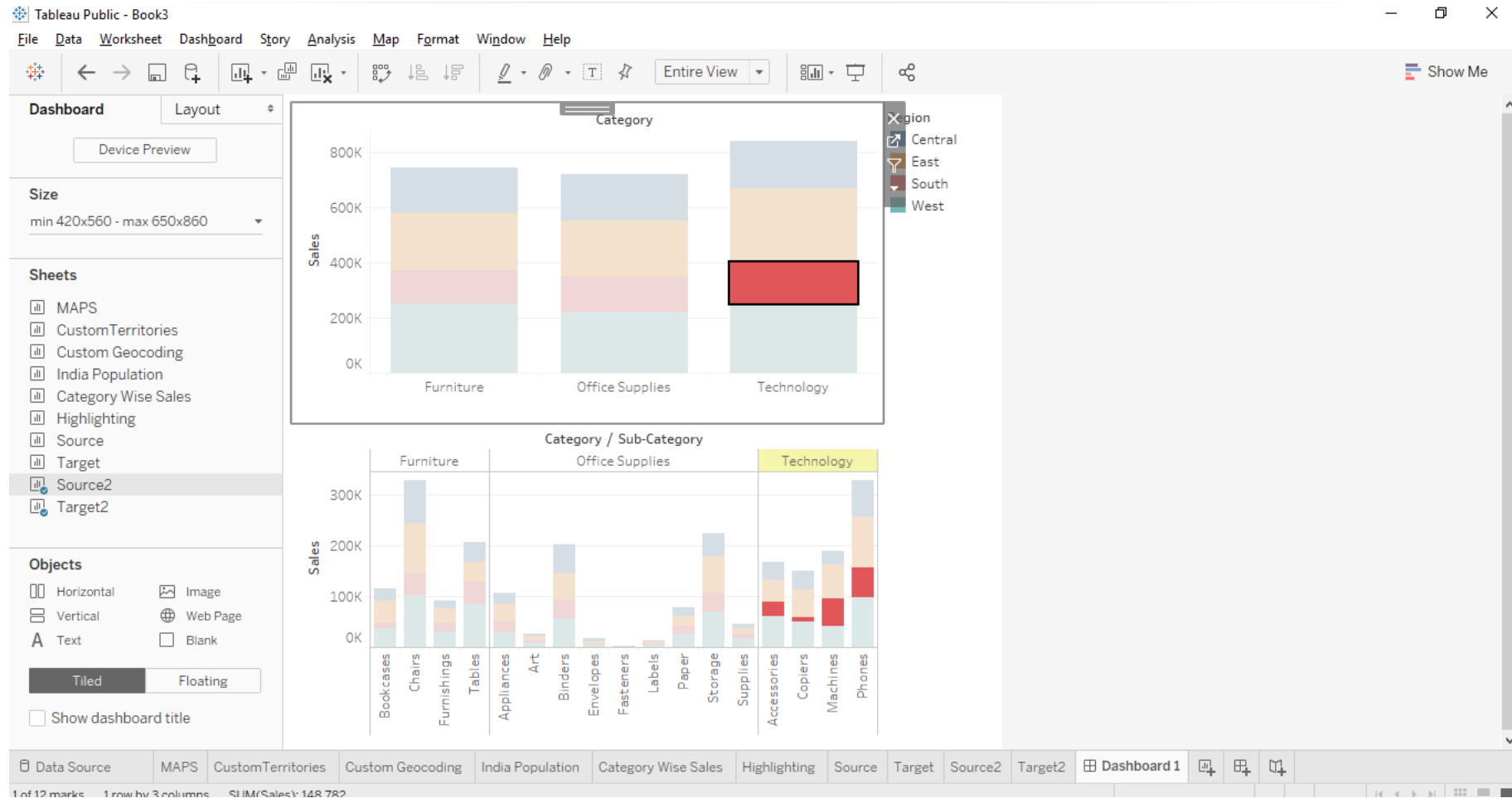
Name	Run On	Source
Filter1	Select	Sample - Superstore (Sample-SuperstoreV1)

Source Field	Target Field	Target Data Source



Actions

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



Actions

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

The screenshot shows the Tableau Public interface with a map of the United States. The map displays state sales data with labels for each state. The 'Actions' dialog box is open, showing the 'Edit URL Action' configuration for a 'Hyperlink1' action.

Actions Dialog Box:

- Name:** Hyperlink1
- Run On:** Menu
- Source:** Sheet 3
- Fields:** State

Edit URL Action Dialog Box:

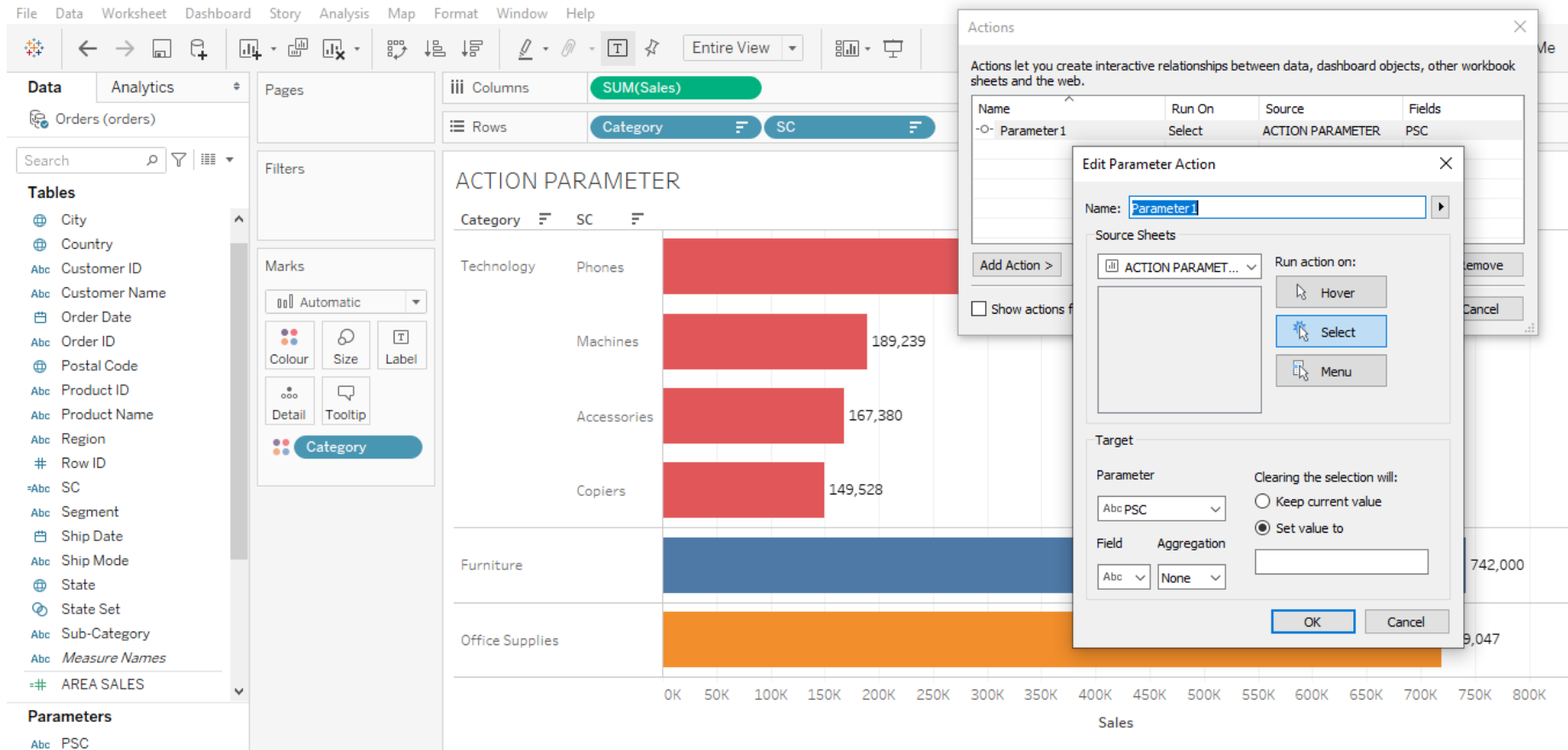
- Name:** Hyperlink1
- Source Sheets:** Sheet 3
- Run action on:** Hover, Select, Menu (Menu is selected)
- URL:** <https://en.wikipedia.org/wiki/<State>>
- Test Link:** <https://en.wikipedia.org/wiki/<State>>
- URL Encode Data Values:** ☐
- Allow Multiple Values:** ☐
- Item Delimiter:** ,
- Delimiter Escape:** \
- URL Target:** ☒ New Browser Tab, ☐ Web Page Object, ☐ Browser Tab if No Web Page Object Exists



Actions

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

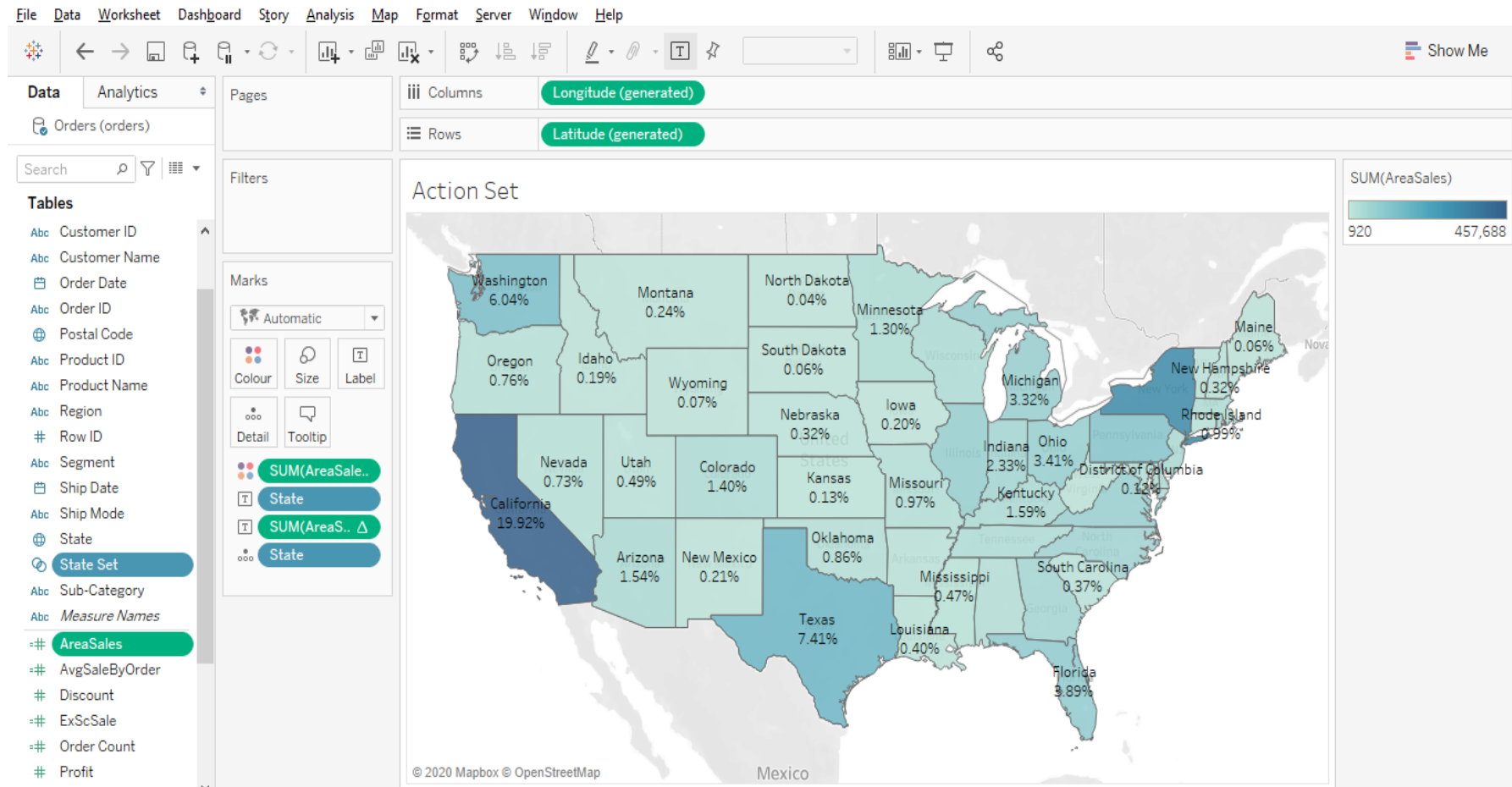
- Create a parameter
- Create a Calculated field
- Assign action to assign the value to the parameter



Actions

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



ASSIGNMENT



- 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

The screenshot shows the Tableau Desktop interface. The 'Columns' shelf contains 'Measure Names' and the 'Rows' shelf contains 'Category' and 'Sub-Category'. A table of sales data is displayed, with a dialog box for the 'FIXEDCATSALES' measure open, showing the calculation `{FIXED [Category] : SUM([Sales])}`. The table data is as follows:

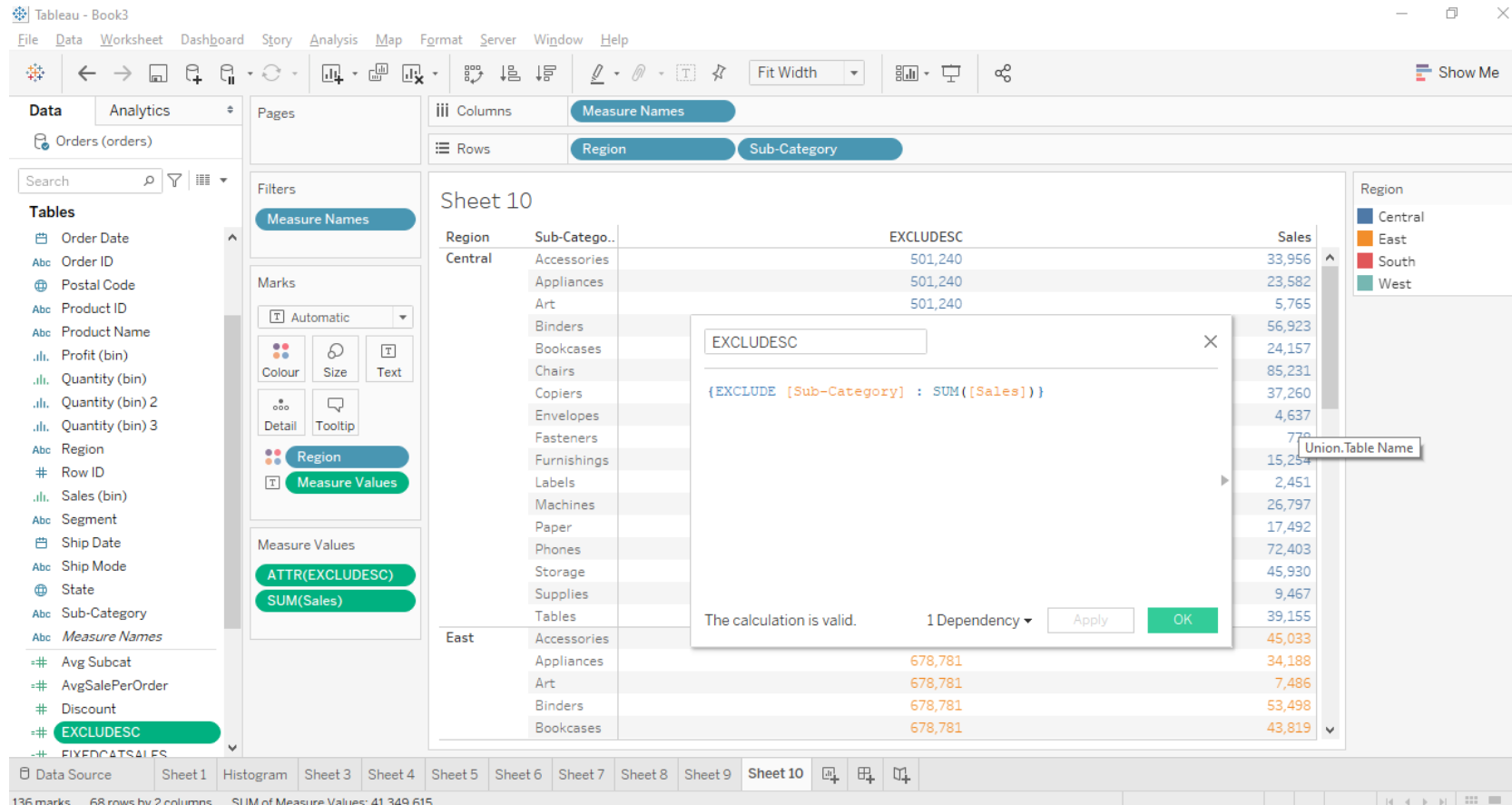
Category	Sub-Category	FIXEDCATSALES	Sales
Furniture	Bookcases	742,000	114,880
	Chairs	742,000	328,449
	Furnishings		91,705
	Tables		206,966
Office Supplies	Appliances		107,532
	Art		27,119
	Binders		203,413
	Envelopes		16,476
	Fasteners		3,024
	Labels		12,486
	Paper		78,479
	Storage		223,844
	Supplies		46,674
	Technology	Accessories	
Copiers		836,154	149,528
Machines		836,154	189,239
Phones		836,154	330,007



LOD Calculations

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

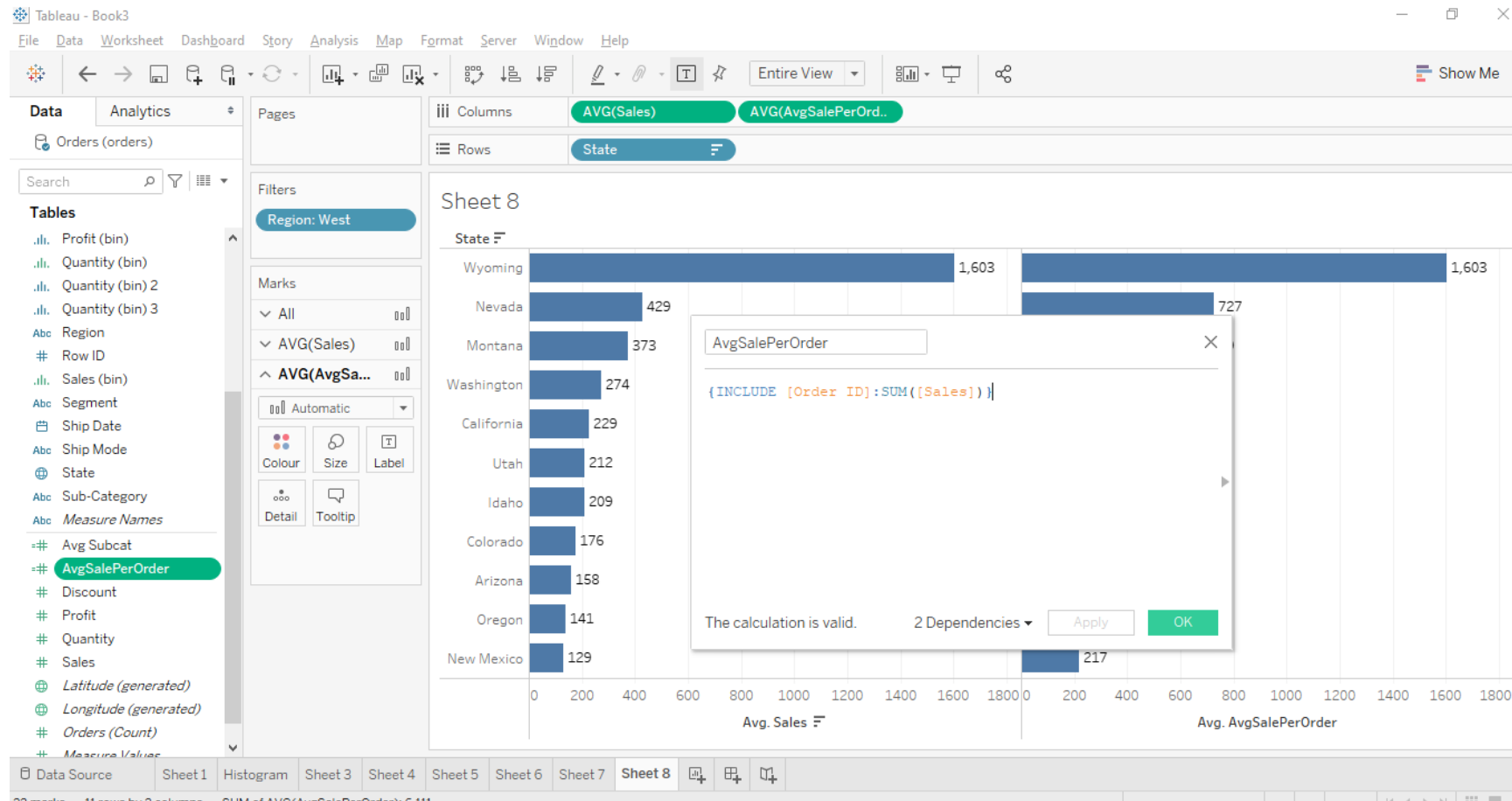
EXCLUDE – exclude the expression even if it is included in the view



LOD Calculations

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

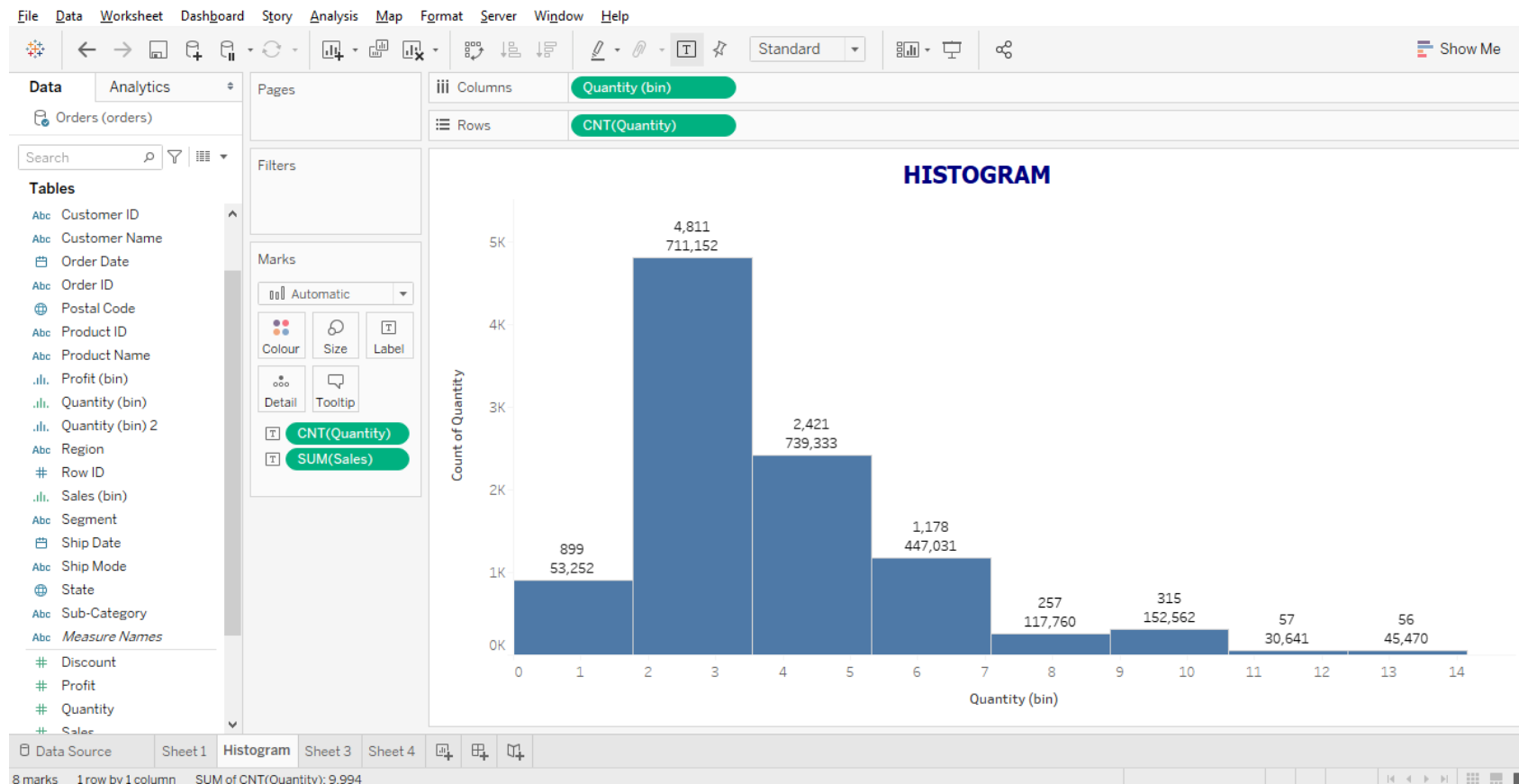
INCLUDE – Include the expression even if it is not included in the view



Histogram

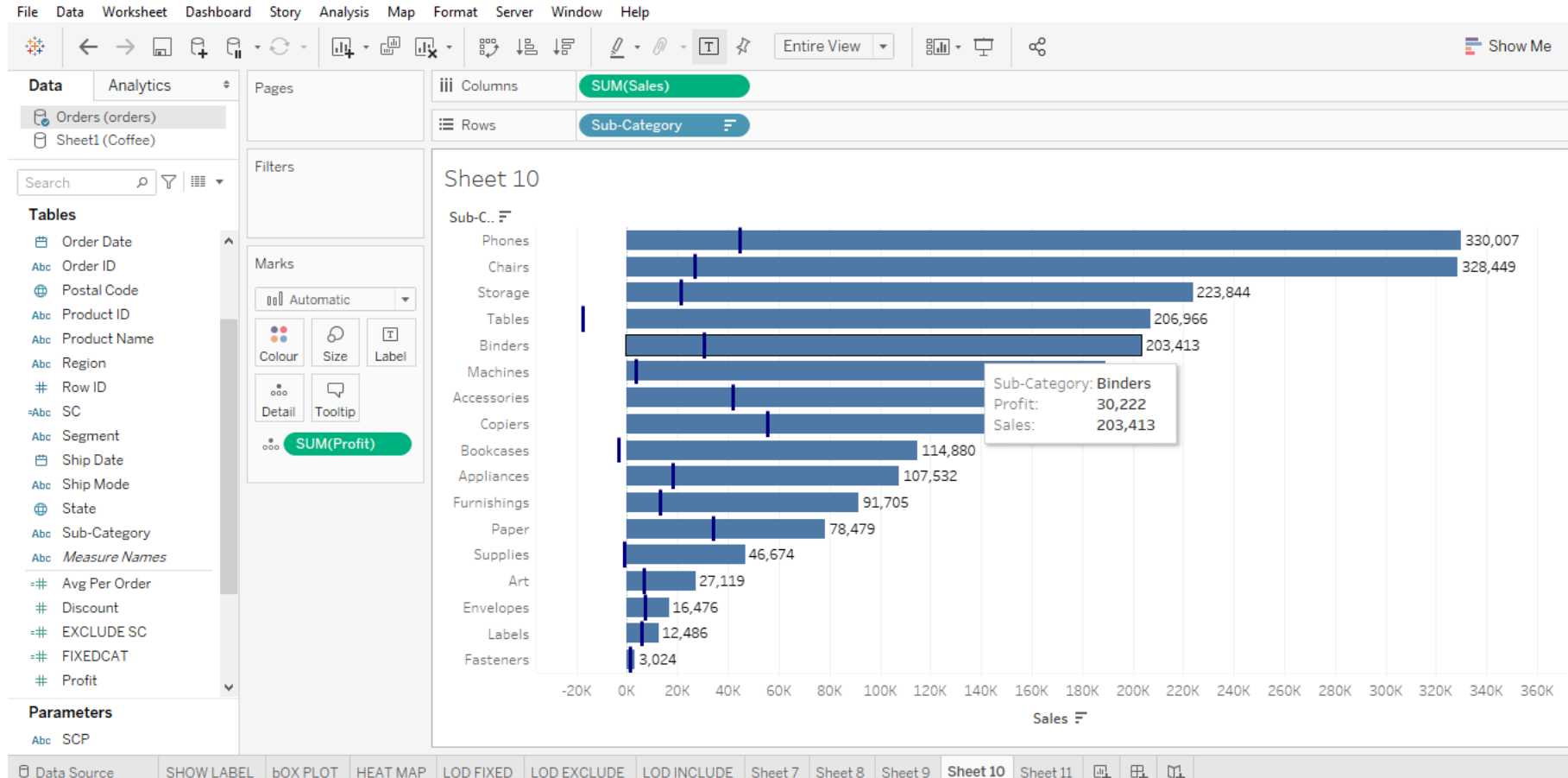
Histogram is same like bar chart however, it groups the values into range. Each bar in histogram represents the number of values present in that range.

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



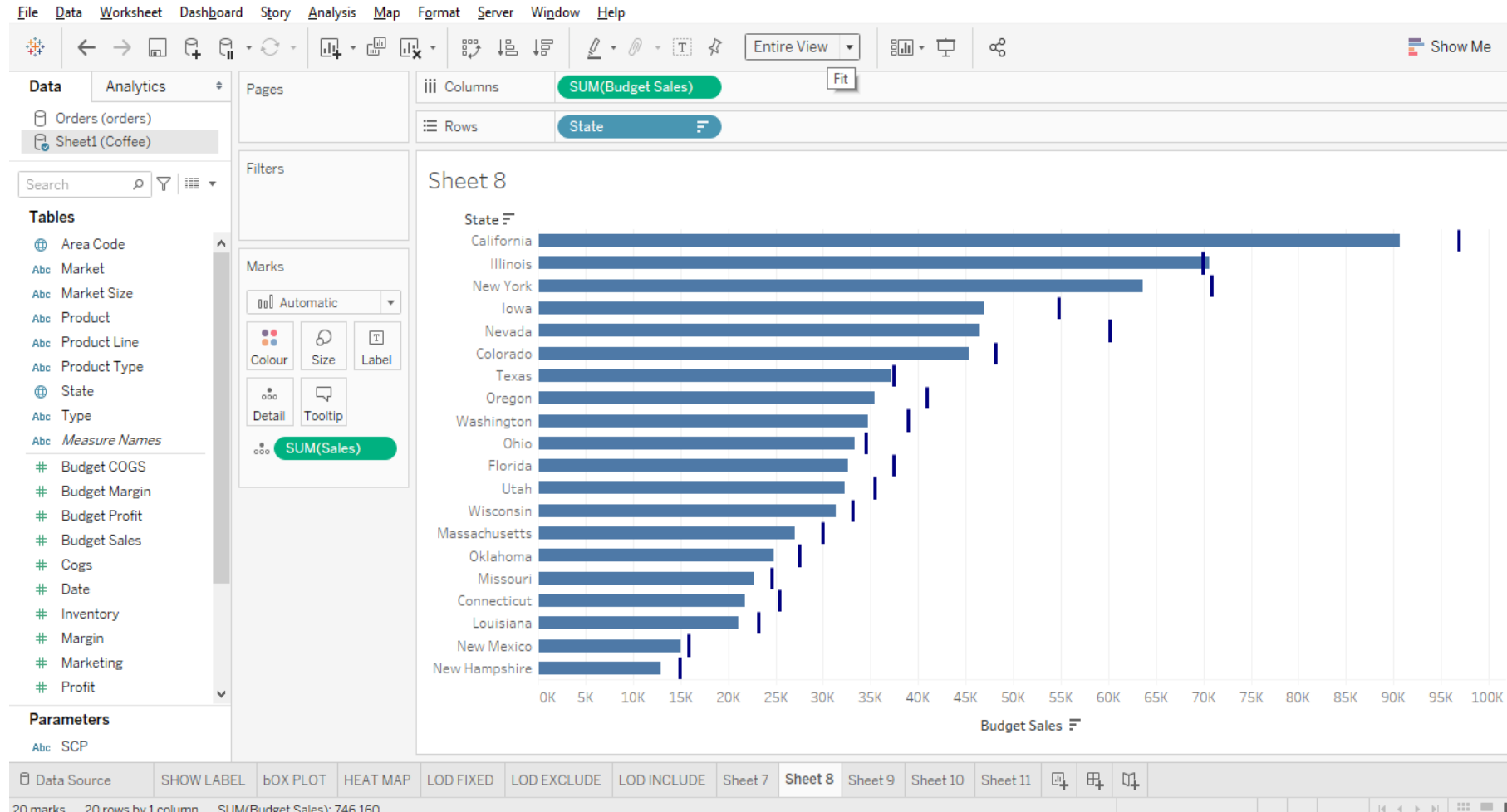
Bullet Chart

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.



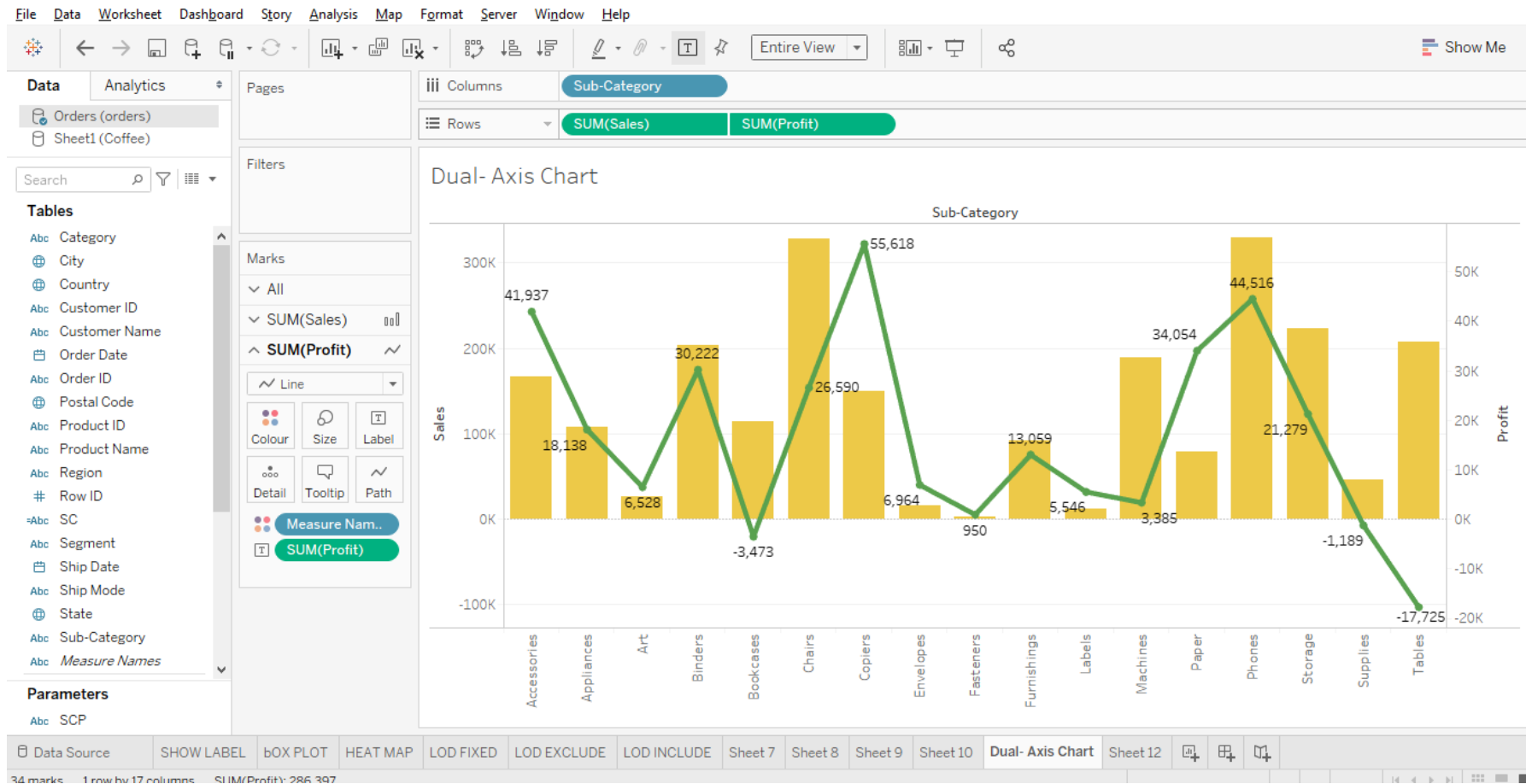
Bullet Chart

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



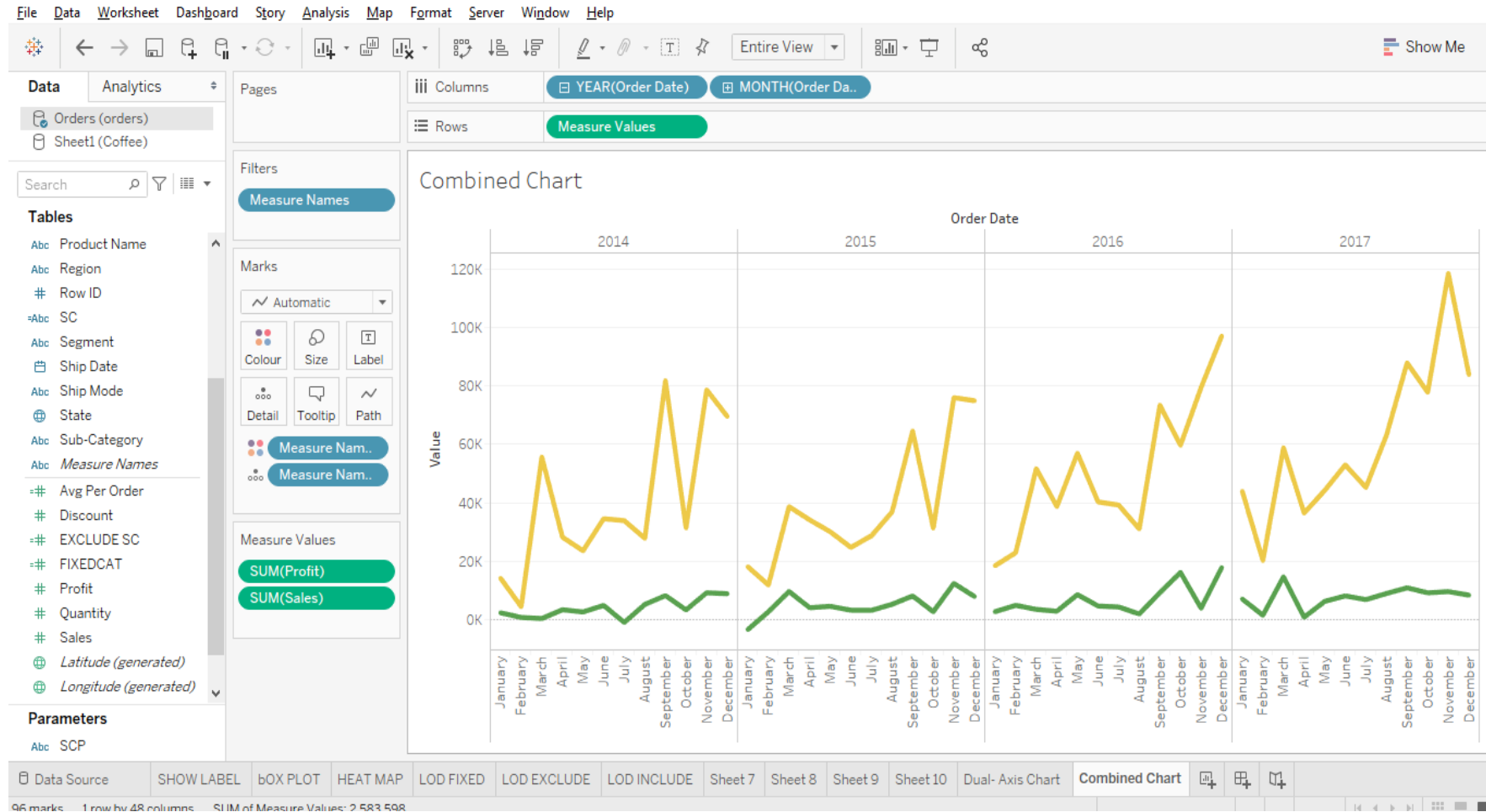
Dual- Axis Chart

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.



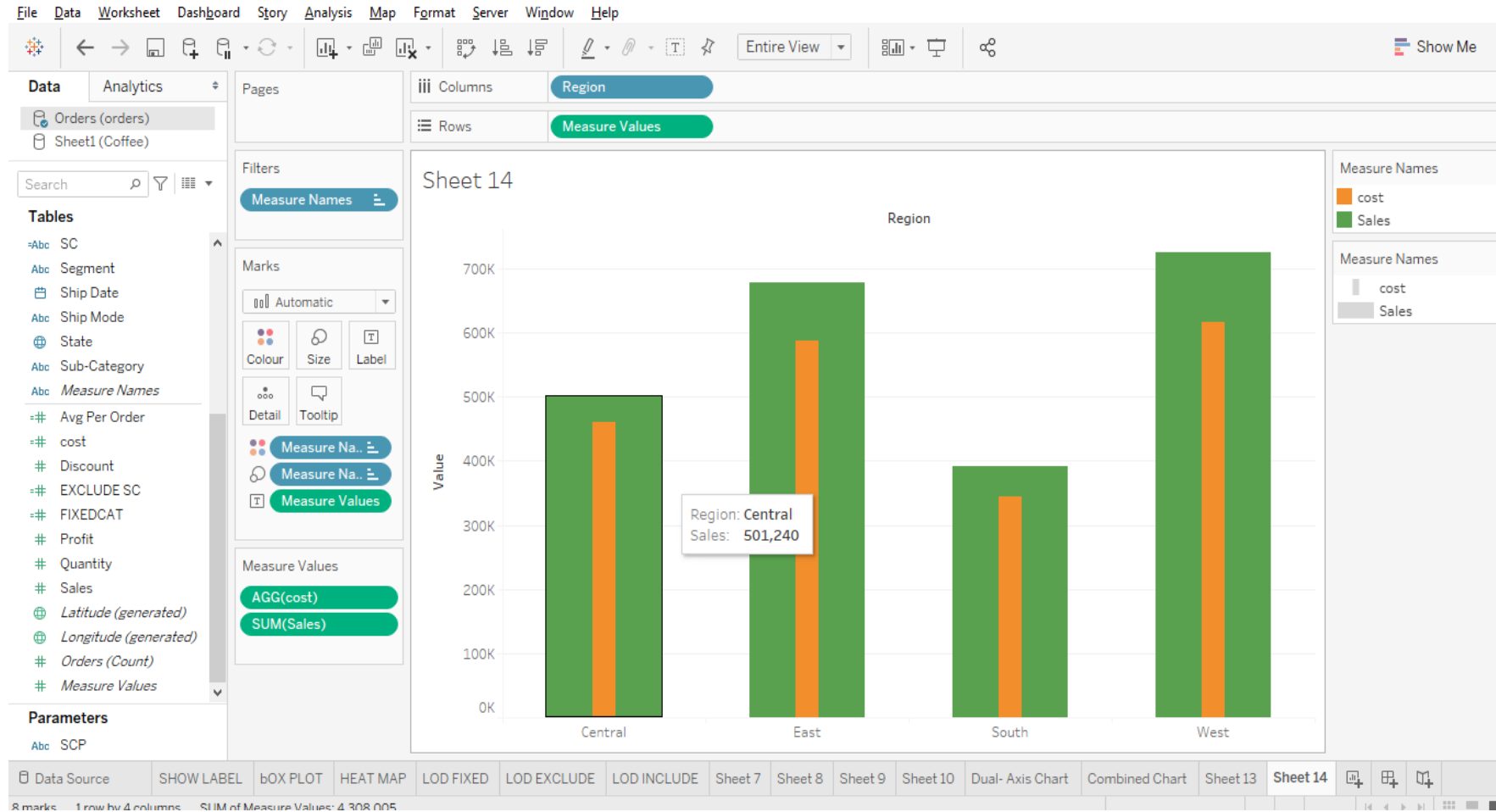
Combined Chart

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



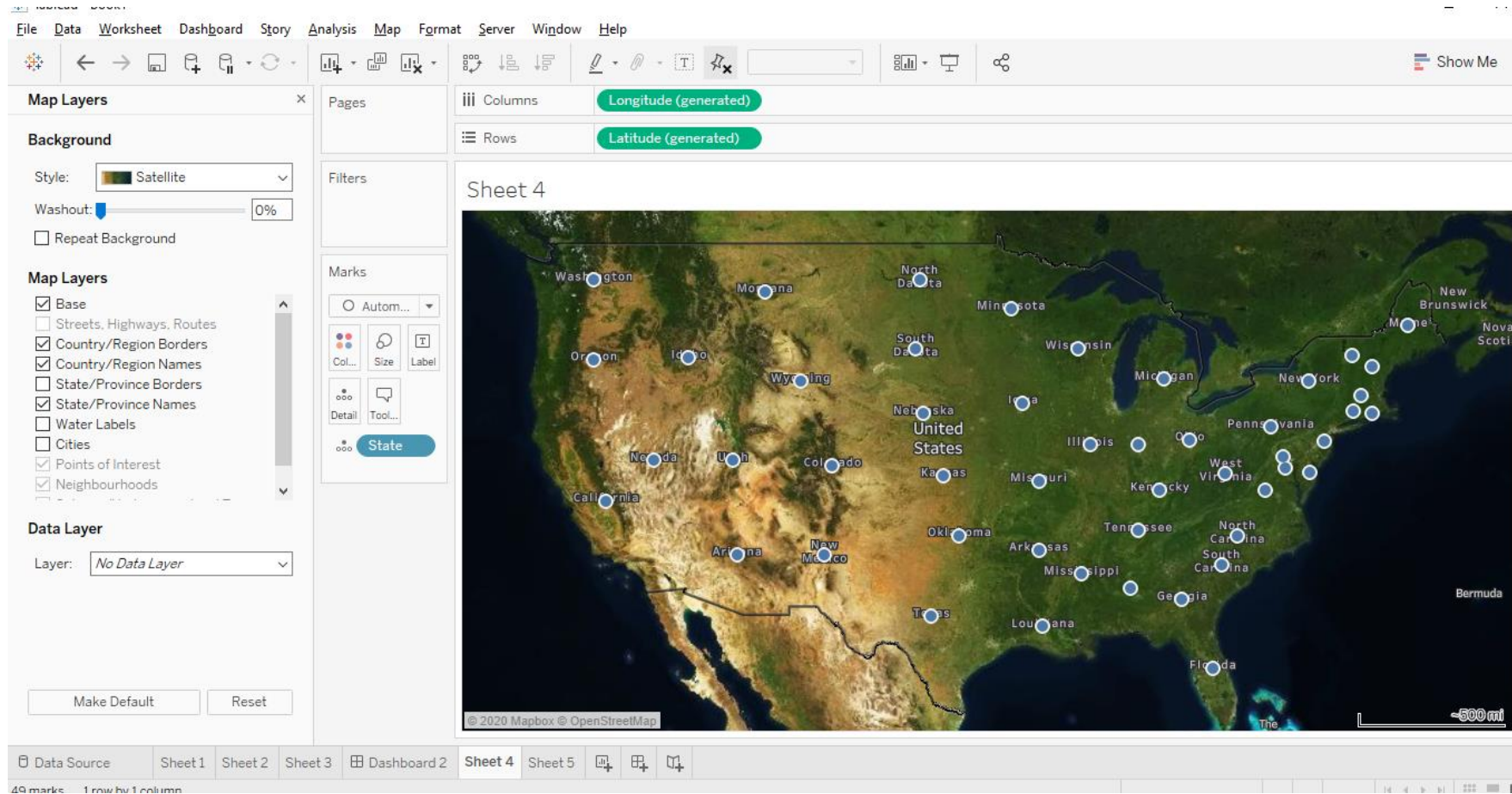
Bars in Bar Chart

Bar in Bar chart is used when we need to plot two measures in the same bar. These are useful for comparing the two measures.



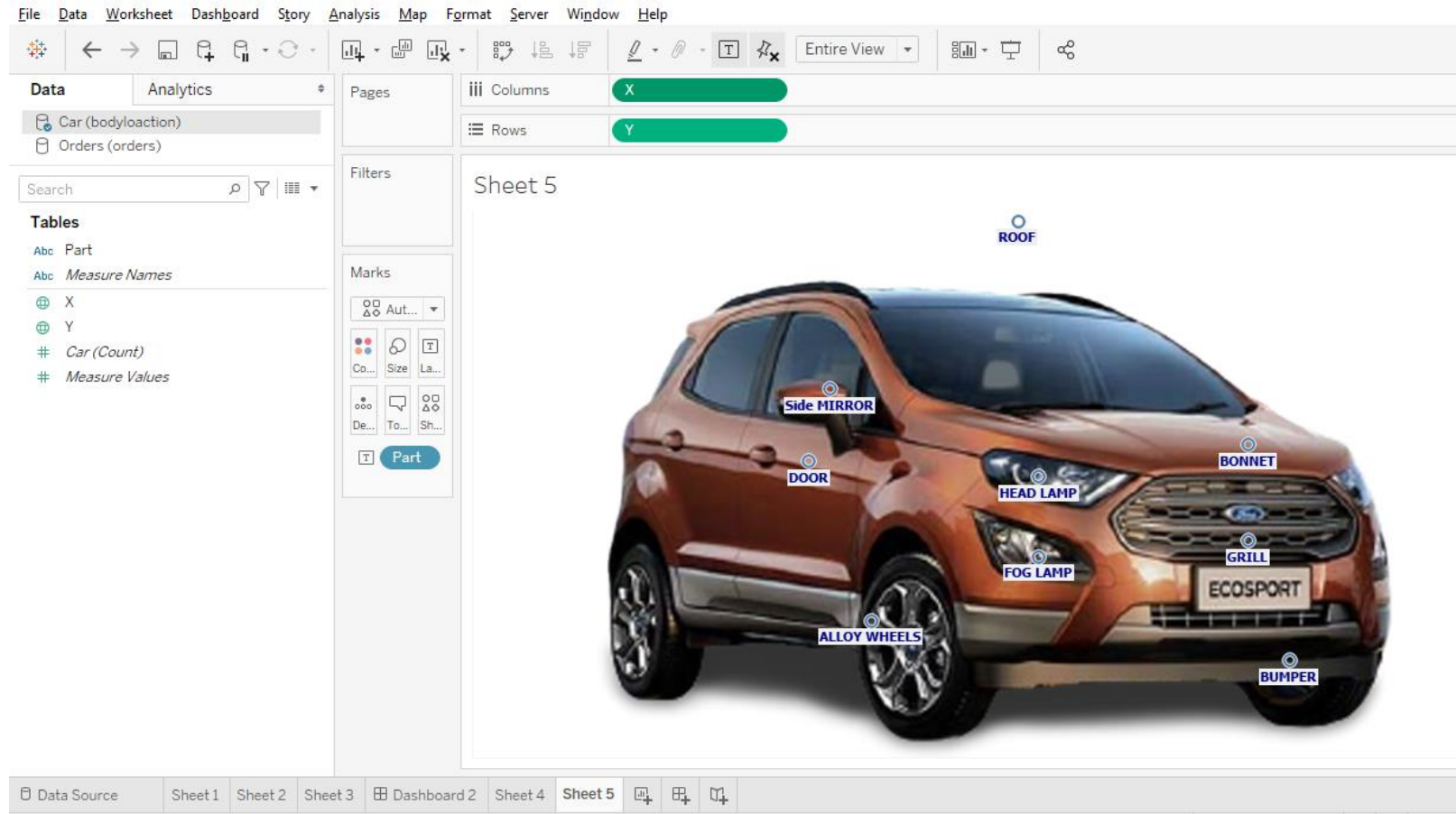
Map Layers

Map layers are used to give other layers (layout) or background to Map like coast lines or Satellite



Map Layers – Back Ground Image

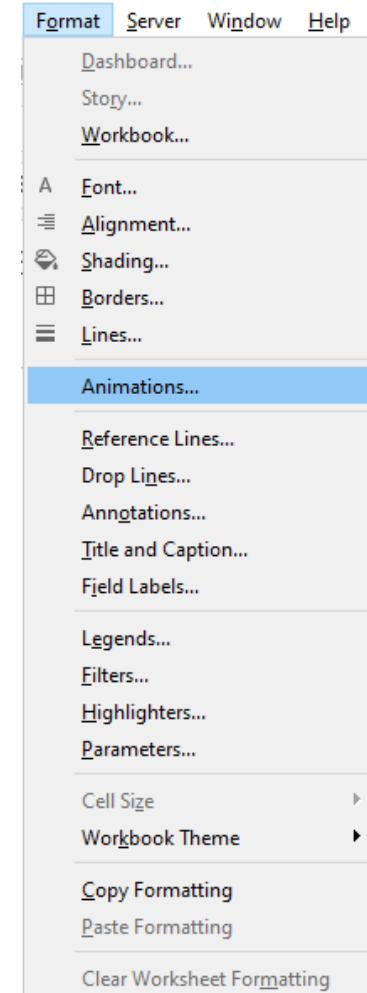
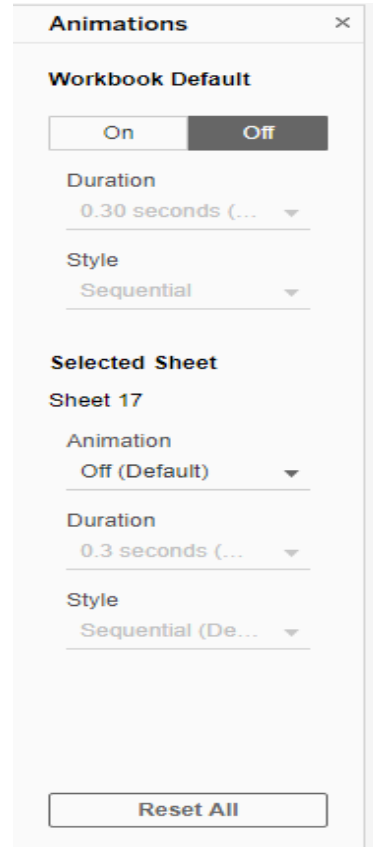
Back Ground Image can be used to create a custom map in Tableau



Viz Animations

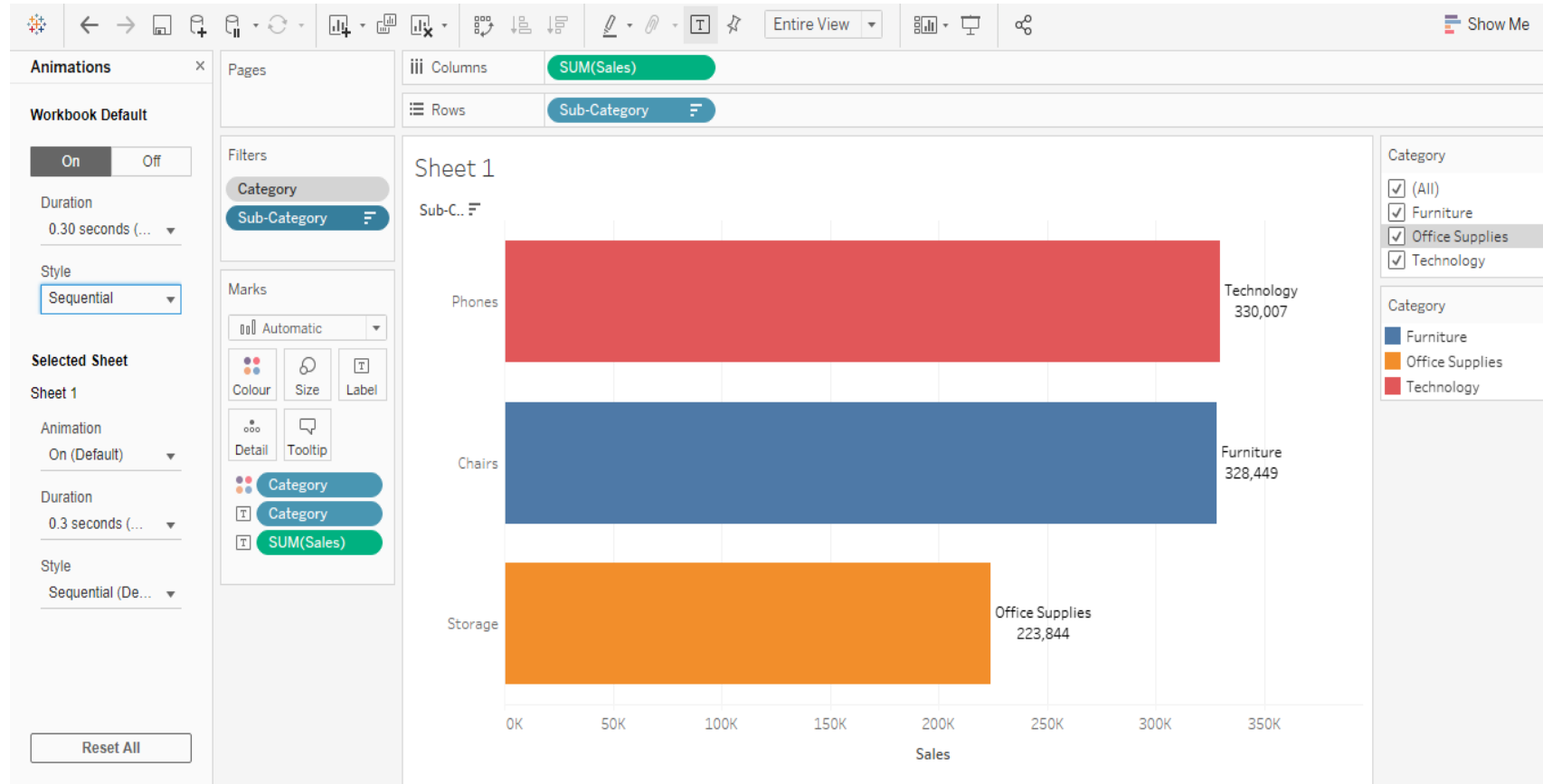
Tableau Viz animations was introduced in the version 2020.1. It's makes easier to explore, understand, and present your data, showing changes to tell powerful, moving data stories. Animations takes the data to the next level by putting data in motion.

To enable animations, just go to Format > Animations...



Viz Animations

Example 1 : Filter Animation



Viz Animations

Example 2: Action Parameter Animation

