

Lesson 07 Demo 04

Divergent Bars Chart

Objective: To create a divergent bars chart to show the sales for 2019 and 2020 for different product sub-categories

Tools required: Tableau Desktop

Prerequisites: None

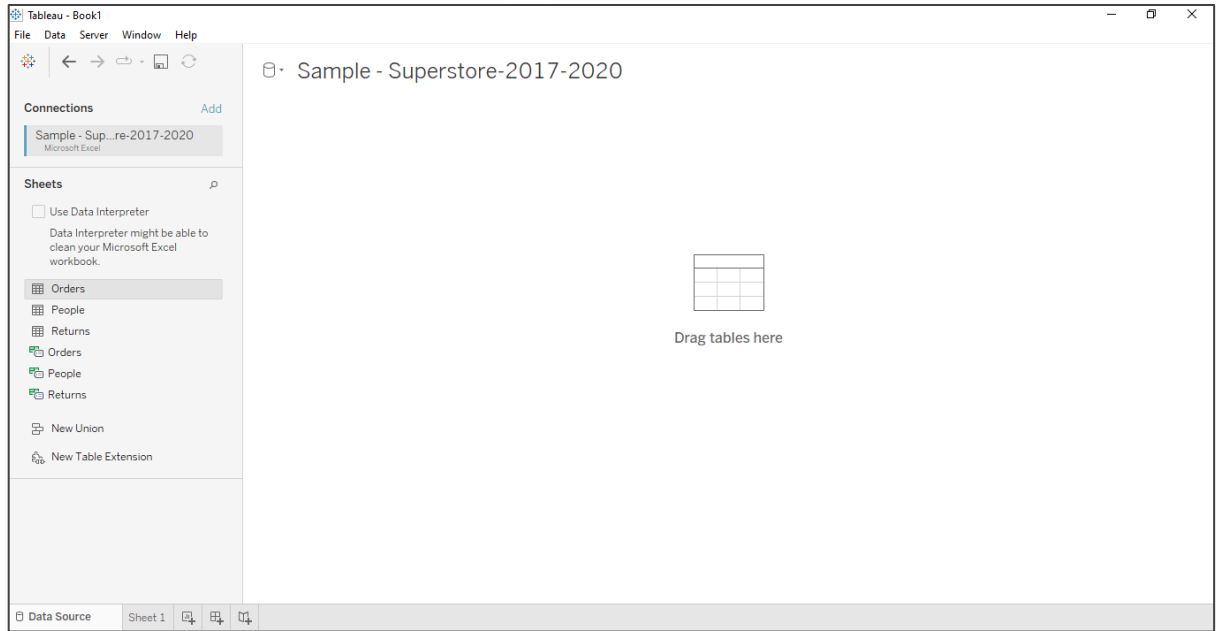
Note: Use the **Sample – Superstore** from the Tableau Desktop

Steps to be followed:

1. Import the dataset
2. Create calculated fields
3. Create visualization
 - Variation – 1
 - Variation – 2
 - Variation – 3

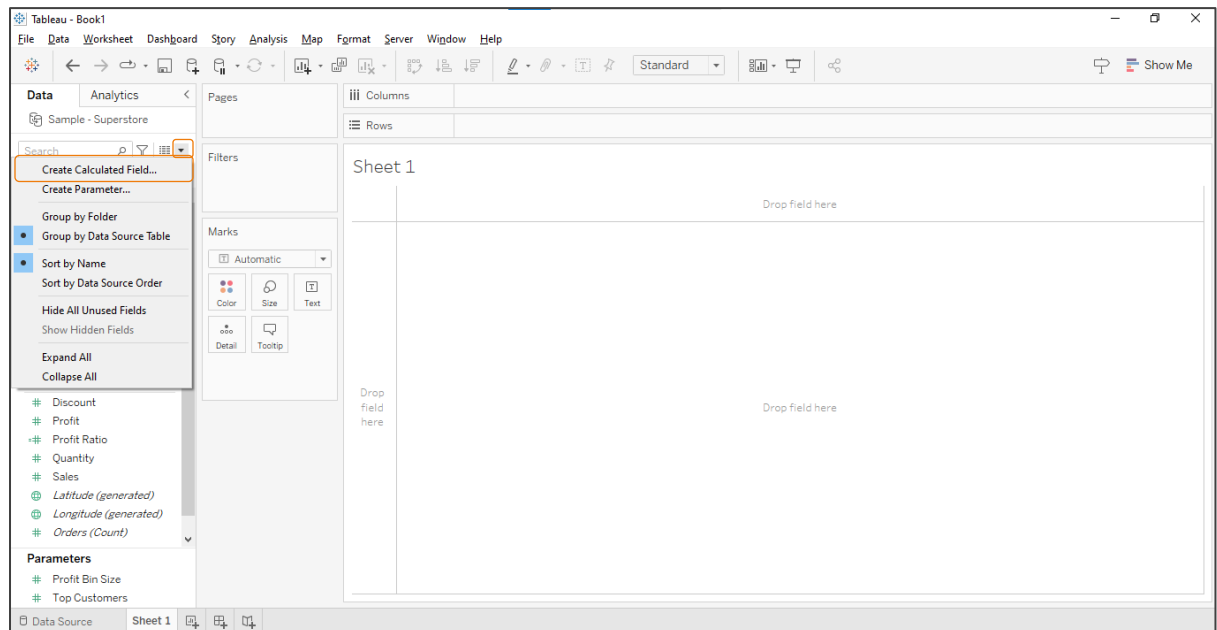
Step 1: Import the Dataset

- 1.1 Navigate to the home page of Tableau Desktop and click on **Sample – Superstore**. Drag and drop the **Order** table into the blank space.



Step 2: Create two calculated fields

2.1 Click on **Create Calculated Field** for **Sales2019**

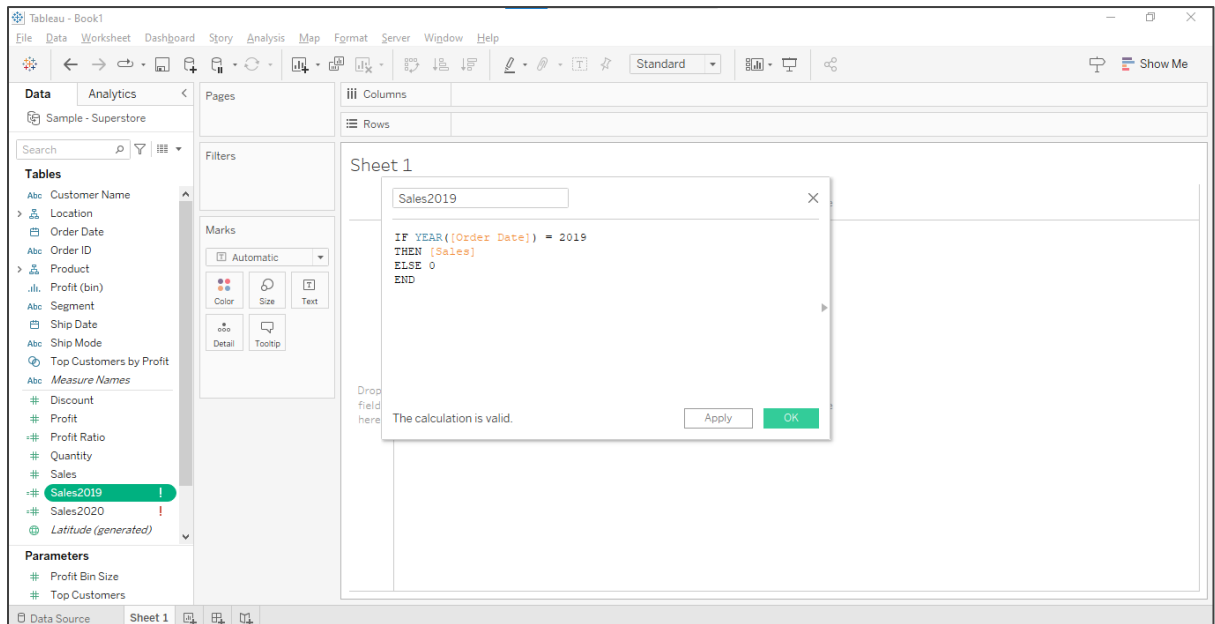


2.2 Rename the pop-up field to **Sales2019** and use the given calculation in the pop-up:

```

IF YEAR([Order Date]) = 2019
THEN [Sales]
ELSE 0
END

```



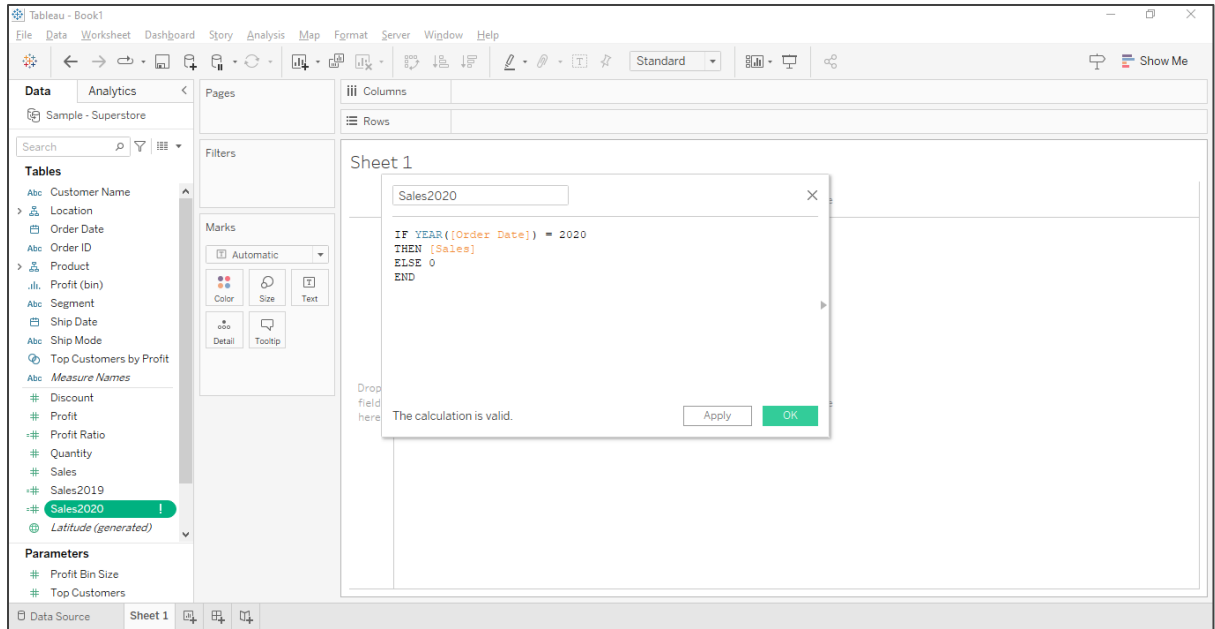
2.3 Create the next calculated field and rename the field to **Sales2020**

Use the given calculation for the popup:

```

IF YEAR([Order Date]) = 2020
THEN [Sales]
ELSE 0
END

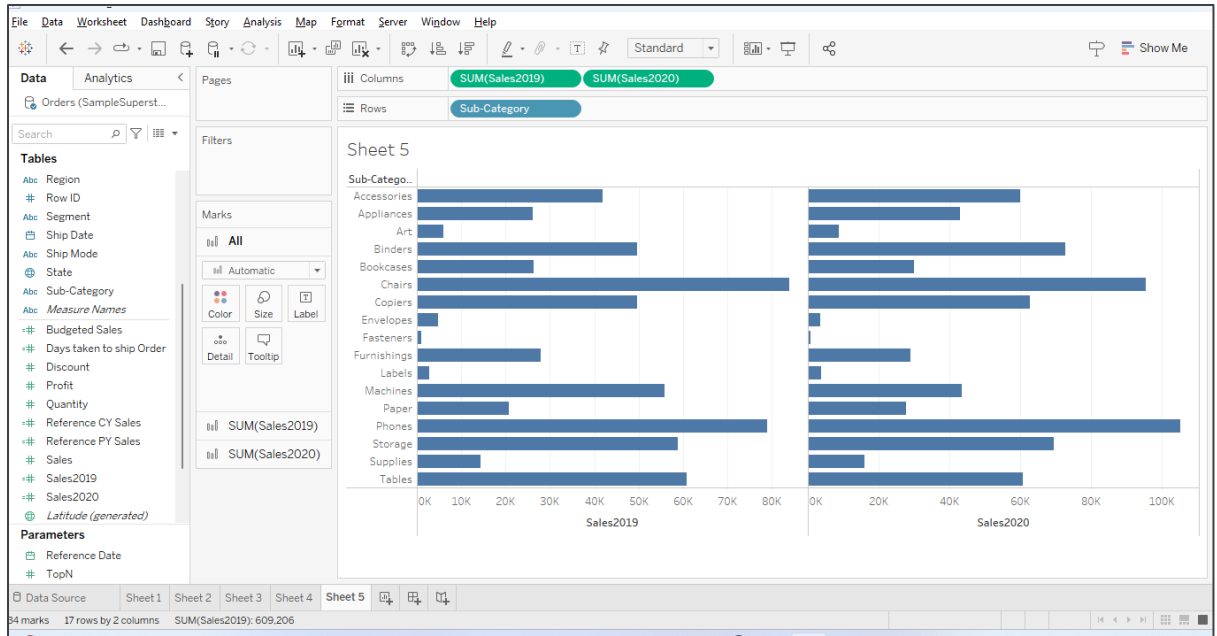
```



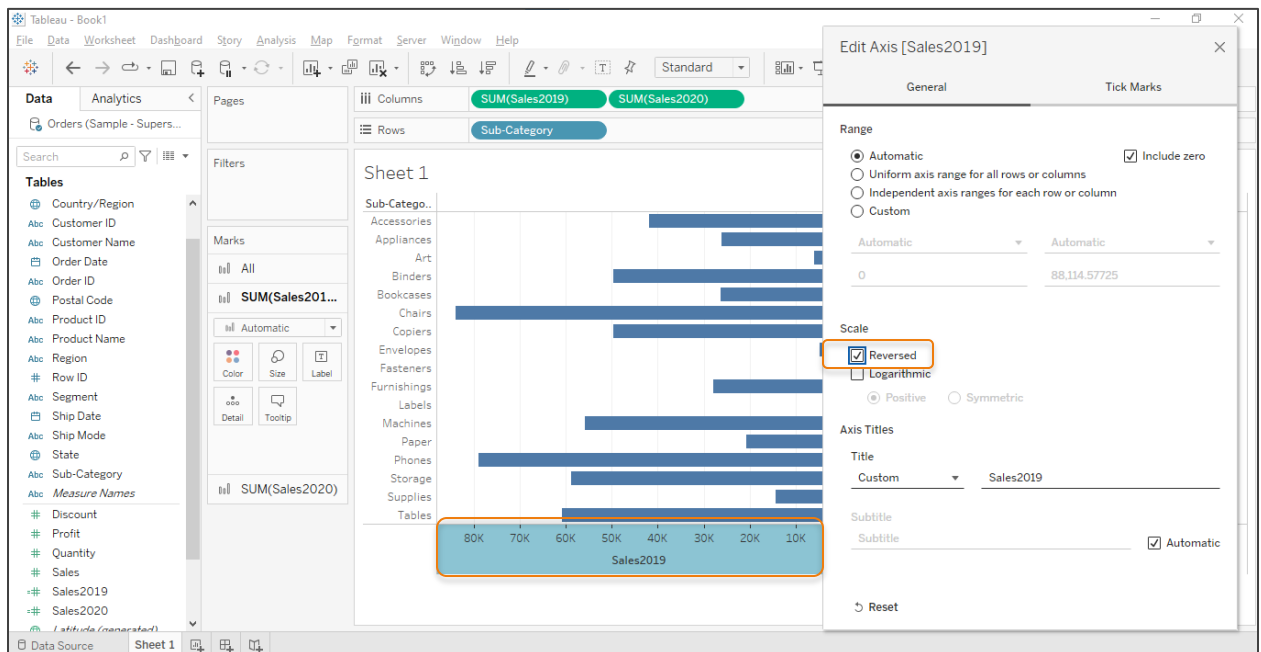
Note: Both the calculations will be placed in the measures section as shown above. Since we have created sales measure for different sub-categories for 2019 and 2020, we compare the sales for these 2 years for these sub-categories.

Step 3: Create visualization

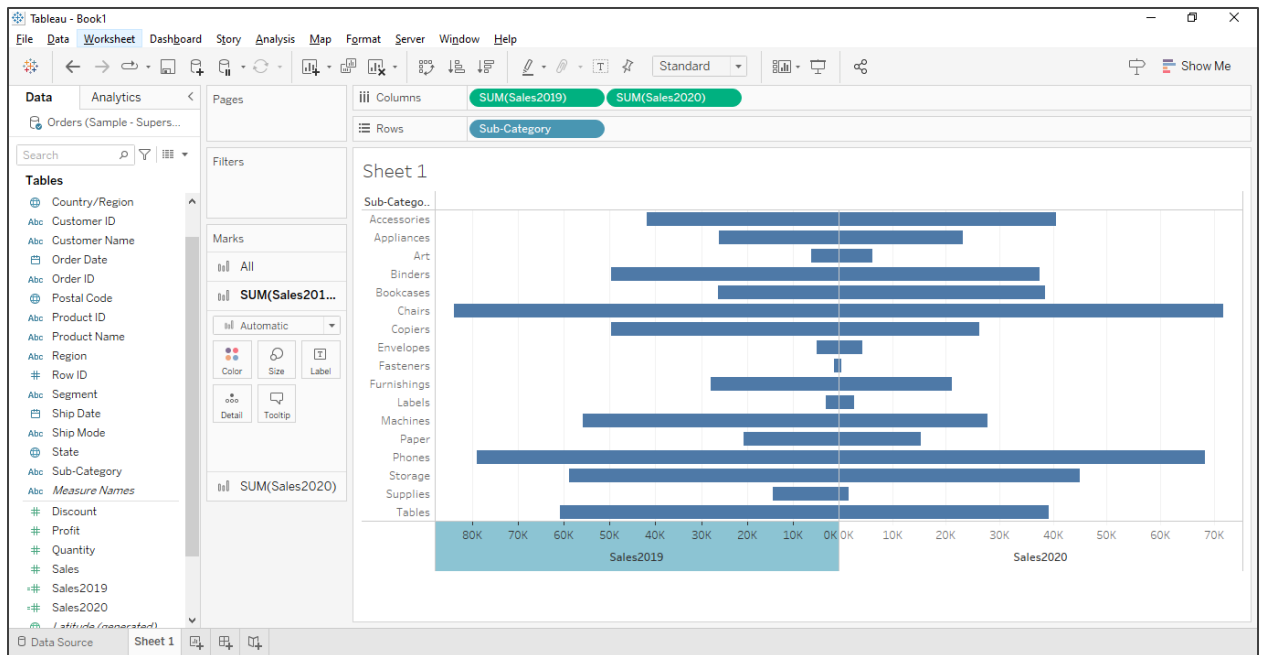
- 3.1 Drag and drop the **Sales2019** and **Sales2020** measures in **Columns** and **Sub-Categories** in **Rows**. You will be able to see two similar bar charts as shown below:



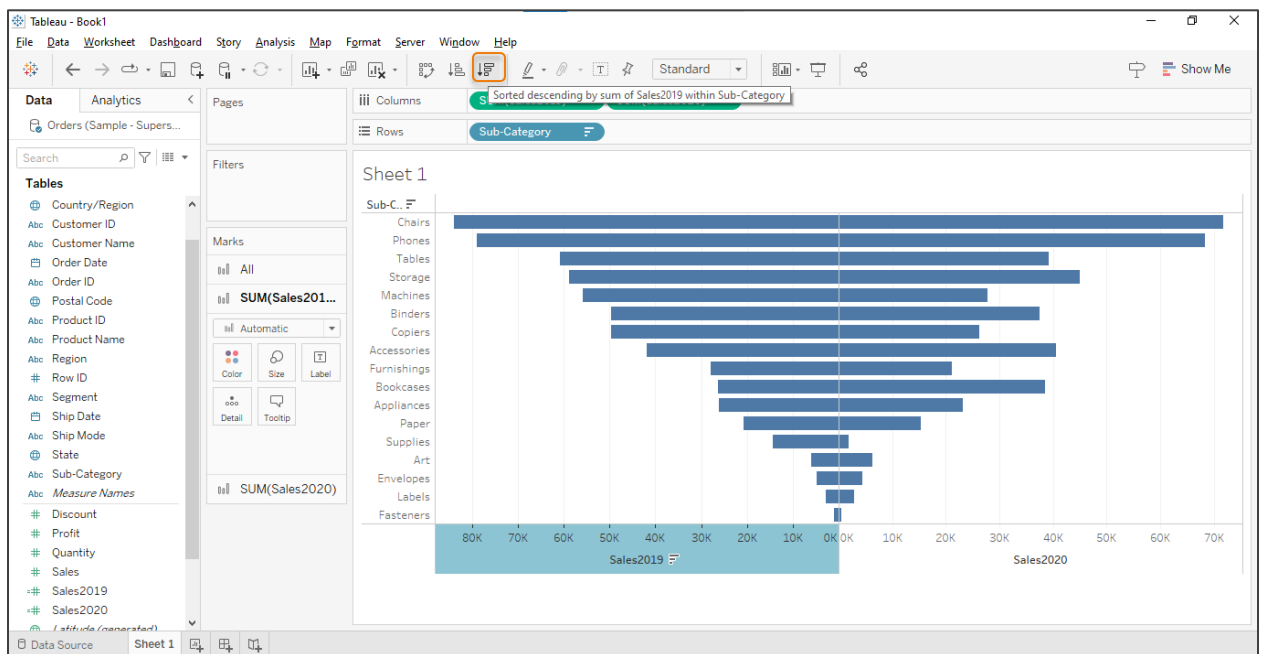
3.2 Double-click on the **X-Axis** for the **Sales2019** to open **Edit Axis** window and check the **Scale Reverse** option



A divergent bar chart is created.

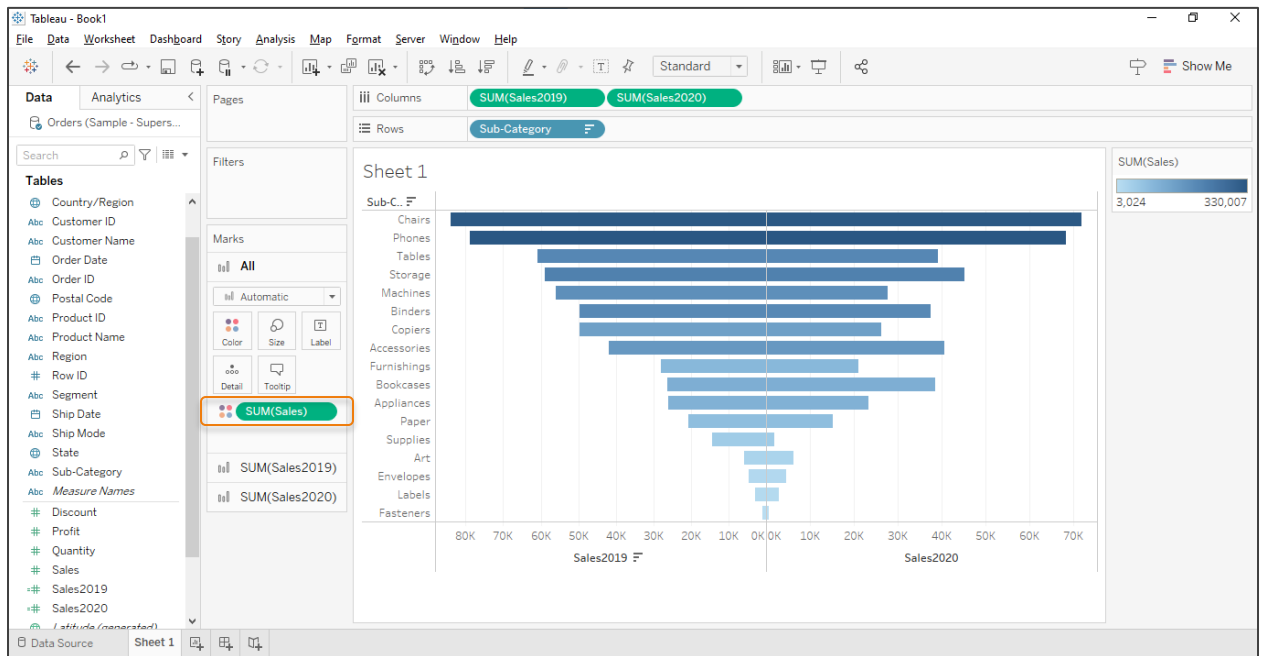


3.3 Click on the sort icon in the menu to sort the chart in descending order



- **Variation - 1**

- Drag **Sales** measure on the **Color** section of the **Marks** card for both year's sales

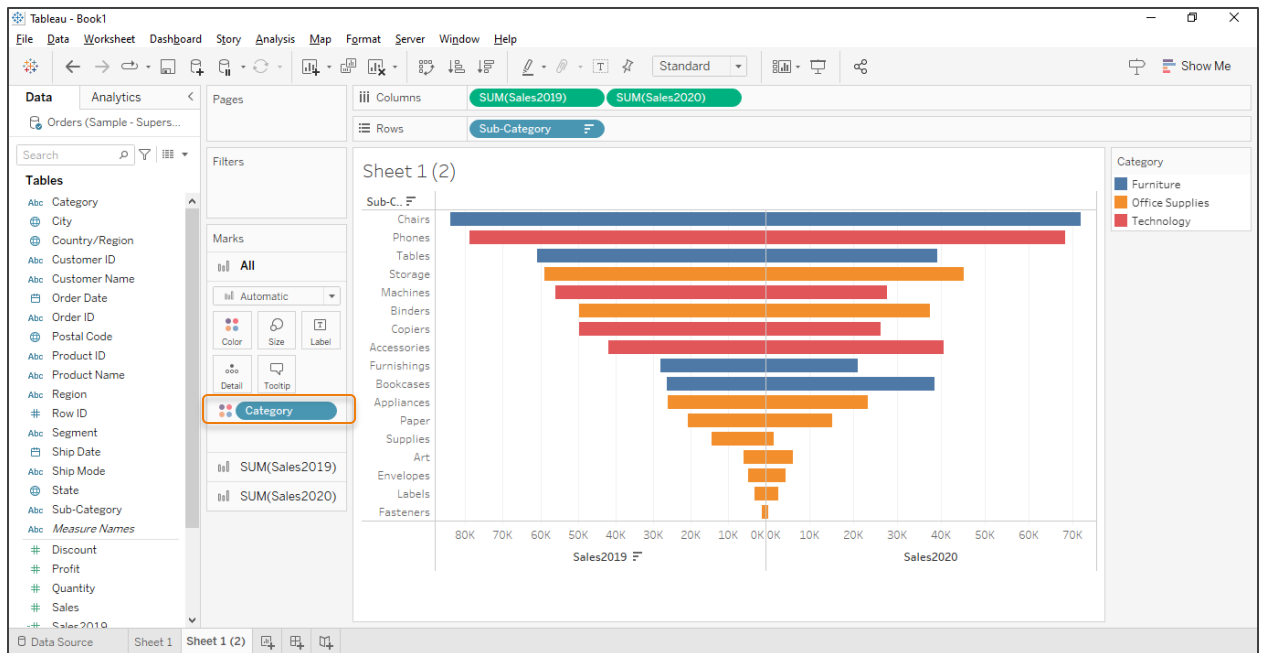


This will impact on both the charts.

Note: The above chart shows the sales for the sub-categories for the years. Further, the color also shows how much is the total sales for each sub-category using the color legend.

- **Variation - 2**

- Duplicate the sheet and remove the **Sales** measure from the **Color** marks to bring the chart to the base chart. Drag **Category** to the **Color** section of the marks card for both year's sales.



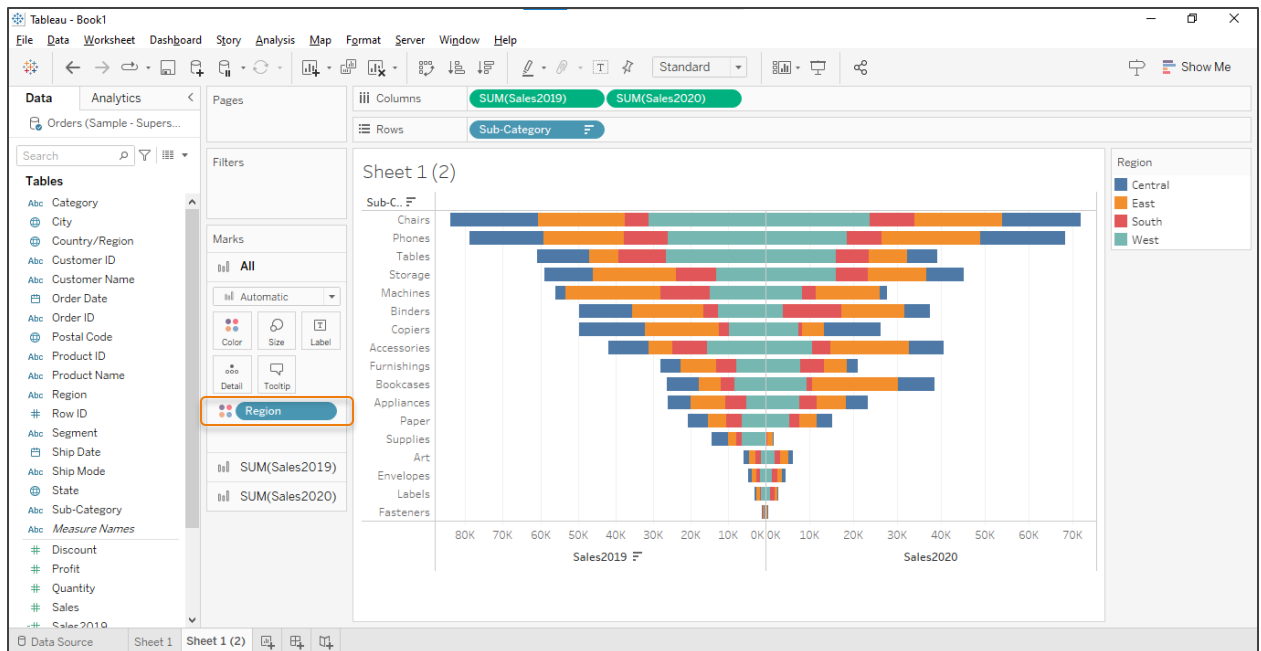
This will impact on both the charts.

Note: The above chart shows the sales for the sub-categories for the years. Further, the color shows the categorization of the sub-categories.

• Variation - 3

- Duplicate the sheet and remove the **Category** from the **Color** marks to bring the chart to the base chart. Drag **Region** to the **Color** section of the marks card for both year's sales.

The divergent bar charts will appear as shown below:



Note: The above chart shows the Region wise breakdown for each sub-category for the years 2019 and 2020 shown as divergent bars.

The divergent bar chart compares sales data for 2019 and 2020 across sub-categories, providing a clear visual representation of changes over time. Variations incorporating category and region dimensions add depth to the analysis. This visualization aids in identifying trends and informing strategic decisions for sales optimization.