# Lesson 07 Demo 03 Pareto Chart

**Objective:** To create a Pareto chart to show the top sub-categories that

contribute to 80% of the sales

Tools required: Tableau Desktop

Prerequisites: None

**Note:** Download the **superstore-excel.xlsx** dataset from the resource section of

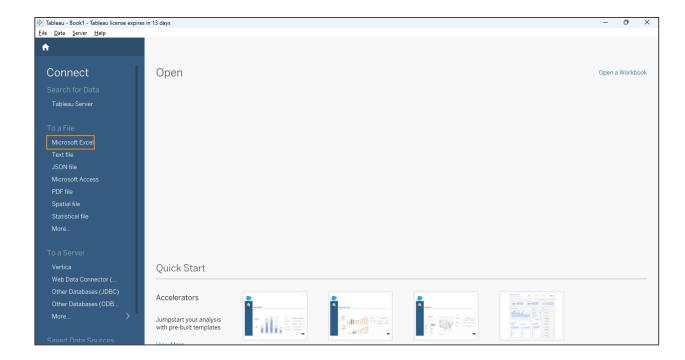
the LMS

#### Steps to be followed:

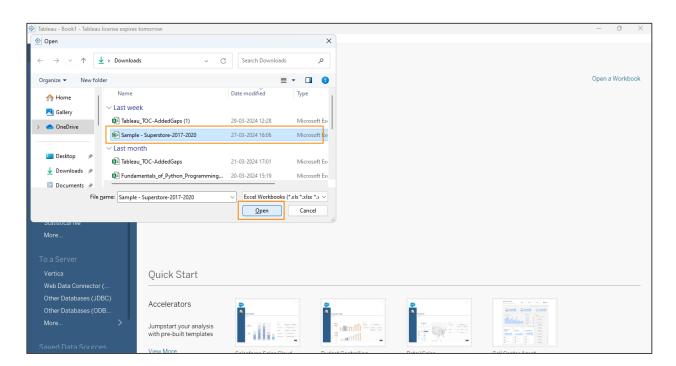
- 1. Import the Dataset
- 2. Create a basic chart and sort it in descending order
- 3. Add a second chart
- 4. Apply the Running Total to the second chart
- 5. Combine the charts using Dual Axis
- 6. Adjust the Marks type of first the Sum(Sales)
- 7. Check the Secondary Calculation
- 8. Show the Mark labels
- 9. Adding an 80% Reference Line to the Pareto chart

## **Step 1: Import the Dataset**

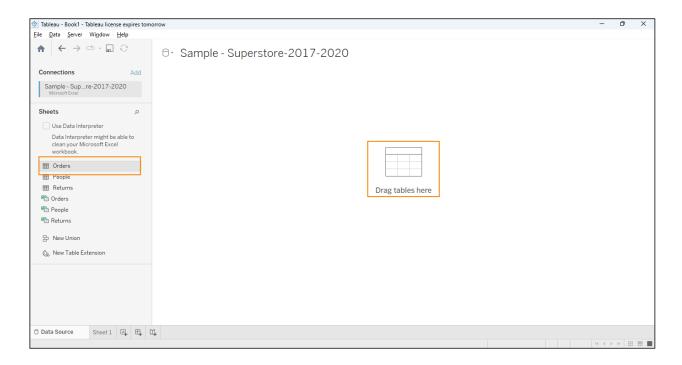
1.1 Go to the home page of Tableau Desktop and click on **Microsoft Excel** from the left side of the page to add the dataset



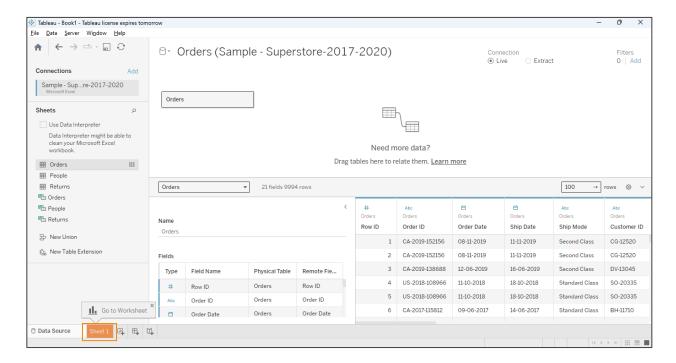
# 1.2 Select the given dataset and click on **Open**



1.3 The opened file will look like the following. Drag **Orders** into the center of the page to **Drag tables here.** 

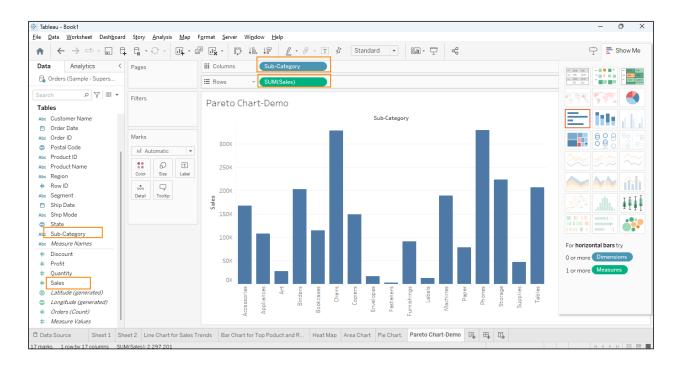


1.4 Click on **Sheet 1** present at the bottom to get started

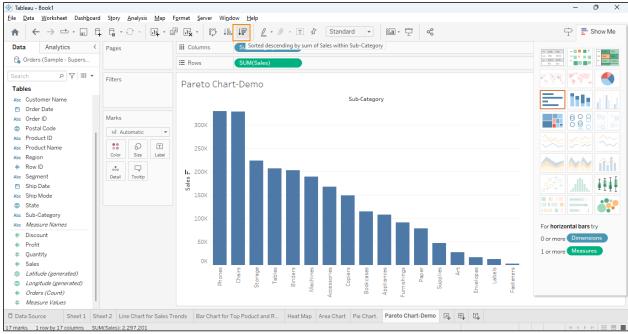


# Step 2: Create a basic chart and sort it in descending order

2.1 From **Tables**, drag and drop **Sub-Category** in **Columns** and **Sales** onto the **Rows** section

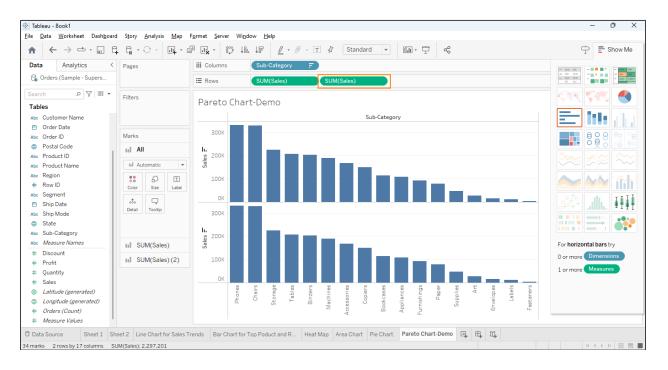


2.2 Click on the descending icon from the menu present at the top row to sort in descending order



Step 3: Add a second chart

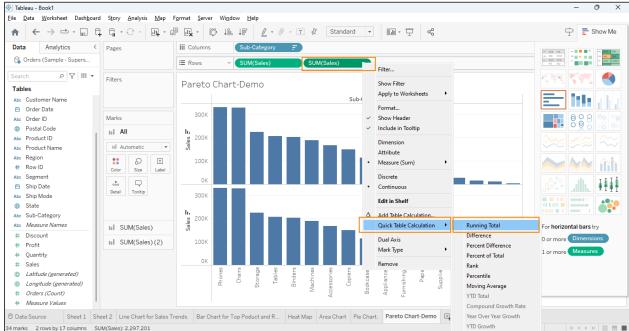
3.1 Drag and drop **Sales** once again in the rows section. Now, two charts will start to appear on the screen as shown below:



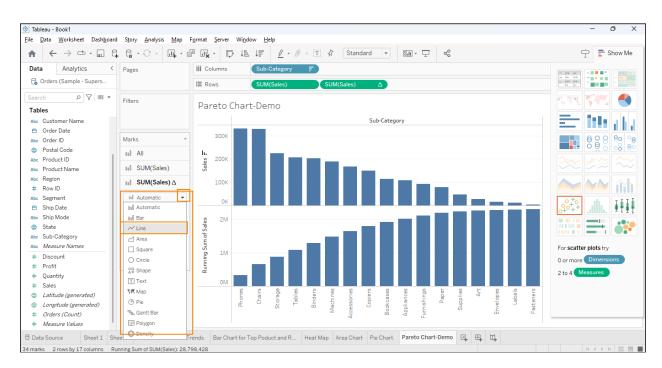
Step 4: Apply a Running Total to the second chart

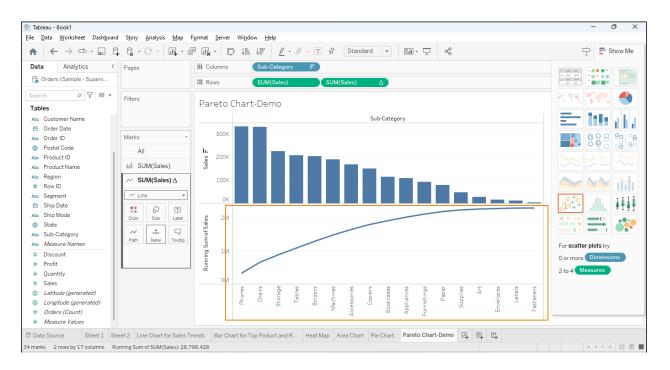
4.1 Right-click on the **second Sales** present in Rows, go to **Quick Table** 

### Calculation, and click on Running Total



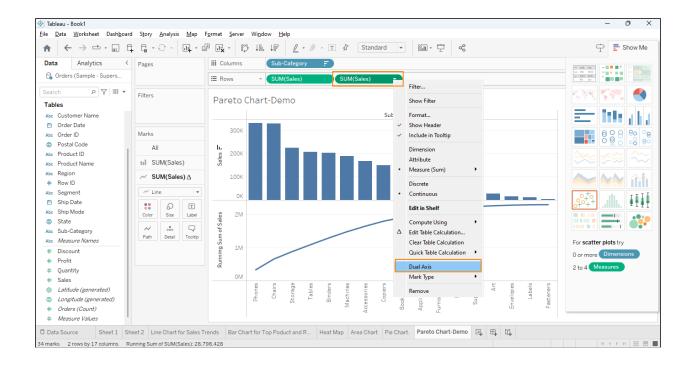
4.2 Also, click on dropdown of the **Marks** card (last changed card) to change the mark type from **Automatic** to **Line** 

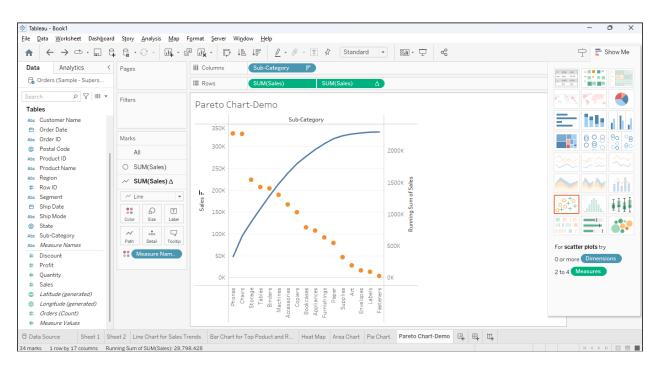




## **Step 5: Combine charts using Dual Axis**

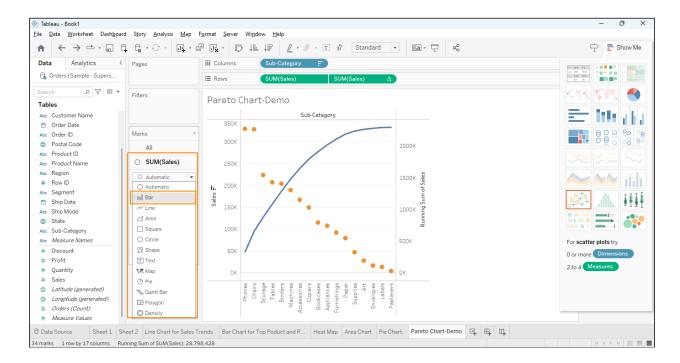
5.1 Click on **SUM(Sales)**, which you have added later in the Rows section, and select **Dual Axis** from the dropdown menu

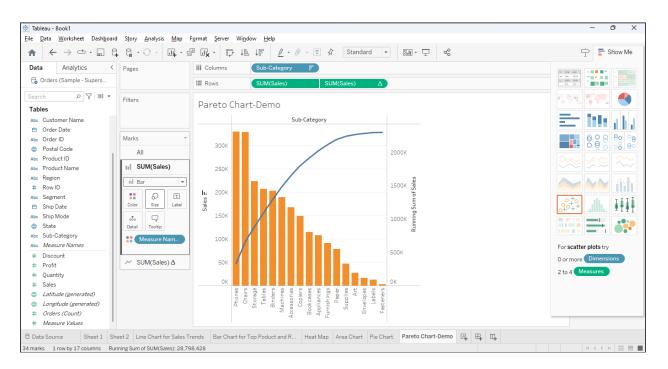




Step 6: Adjust the Marks type of the first Sum(Sales)

6.1 On the marks card of the first Sales, change the type from **Automatic** to **Bar** 

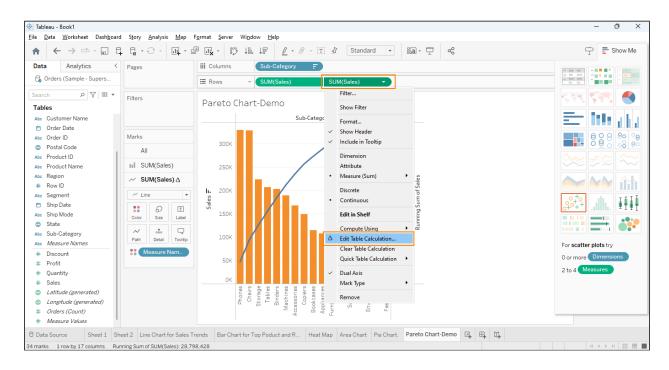




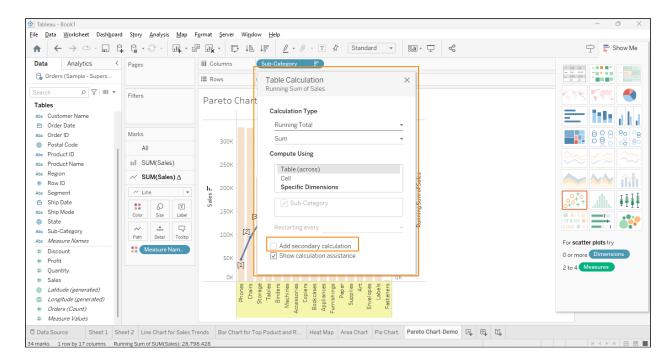
**Note:** The Marks type for the Running Sum of Sales shows a Line graph. The left Axis shows the Sum of Sales. The right axis shows the Running Total of Sales or Cumulative Sales.

### **Step 7: Check the Secondary Calculation**

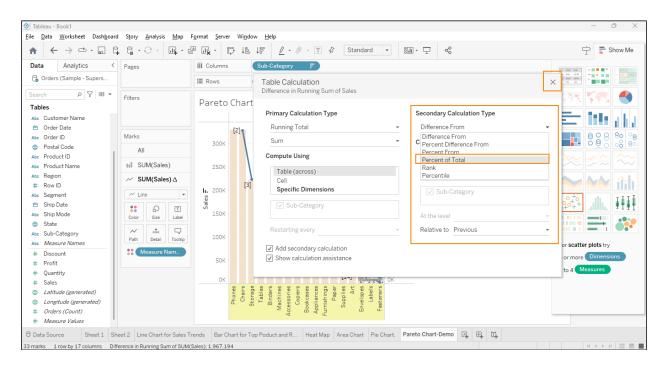
7.1 Right-click on the second **Sales** pill and click on **Edit Table Calculation** 



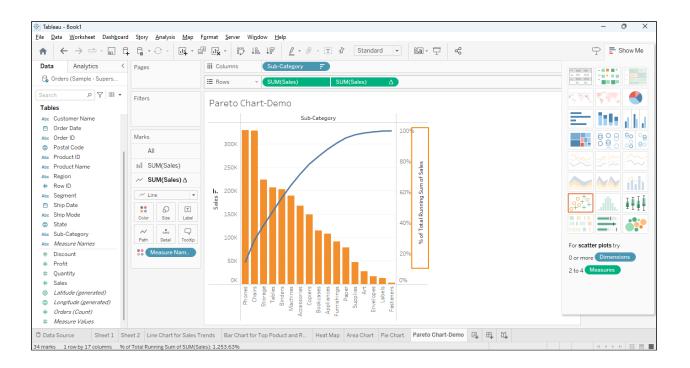
7.2 After clicking on Edit Table Calculation, the window, as shown below, opens. Click on the checkbox of **Add secondary calculation**.



7.3 The **Secondary Calculation Type** window opens. Select **Percent of Total** and click on the cross icon (at the top) to close it.

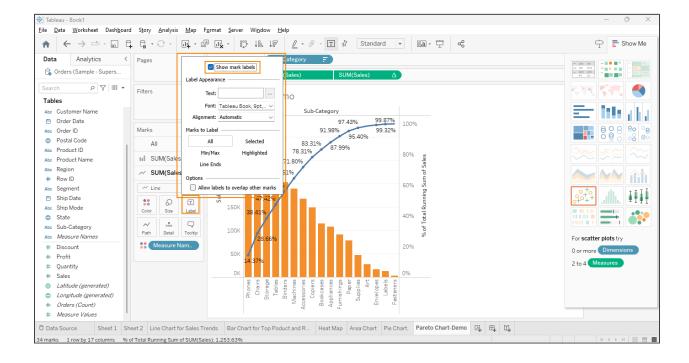


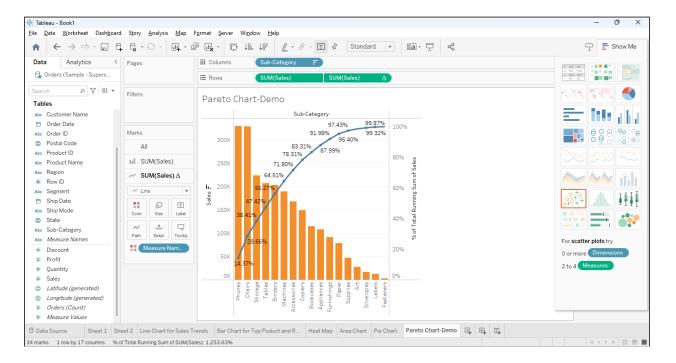
Note: Vertical axis present at right side shows the % of Running Total of Sales.



# **Step 8: Show Mark labels**

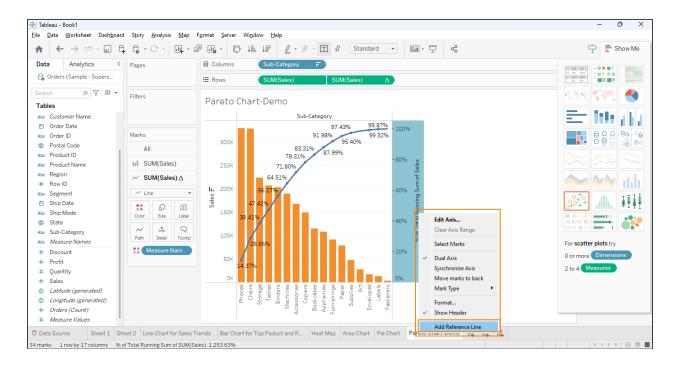
8.1 On the Marks card, go to the **SUM(Sales)**, which you added later, click on **Label**, and check the box **Show mark labels** 



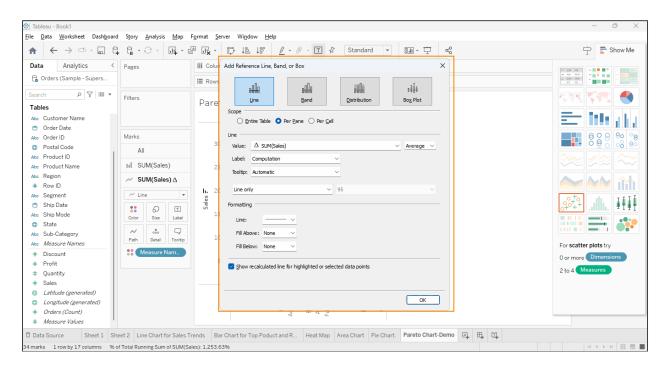


#### Step 9: Adding an 80% Reference Line to the Pareto chart

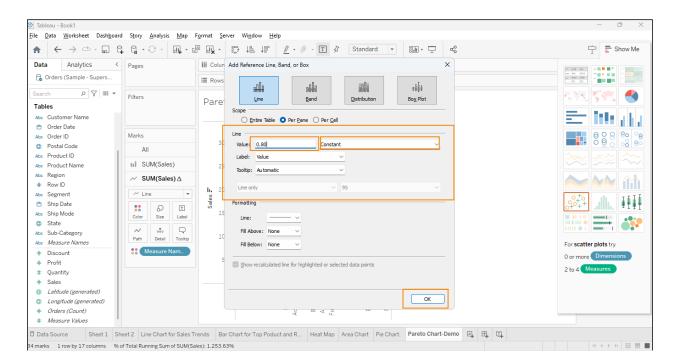
9.1 Right-click on the right vertical axis named **% of Total Running Sum of Sales**. Click on the **Add Reference Line** option present at the bottom.



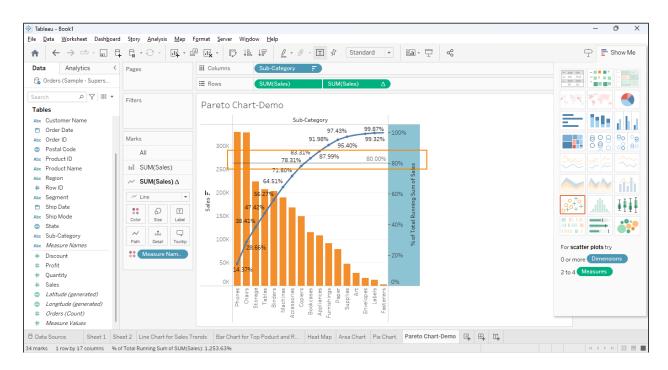
The pop-up window appears as shown below:



9.2 In the **Add Reference Window**, go to the **Line** section. Select **Value** from the dropdown as **Constant** and add **0.8** to the **Value** field. Click on **OK**.



The final Pareto chart will appear as shown below:



**Observation:** The sub-categories from Phones to Copiers contribute to 80% of the sales.

By following these steps, you have successfully created a Pareto Chart to show the top sub-categories that contribute to 80% of the sales.