Lesson 07 Demo 02
Gantt Chart

Objective: To present a comprehensive visualization illustrating the shipping durations for the Top N orders across diverse Month/ Year combination

Tools required: Tableau Desktop

Prerequisites: None

Note: Use the **Sample – Superstore-2017-2020** from the Tableau Desktop

Steps to be followed:

1. Import the dataset
2. Create a Top N parameter
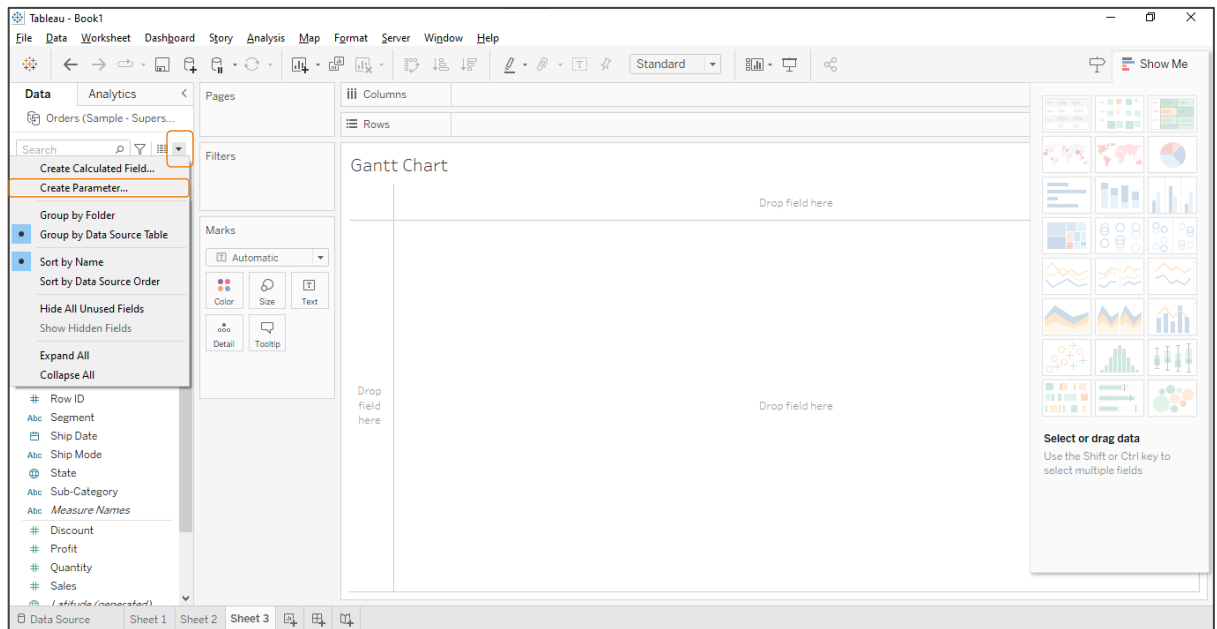3. Link the Order Id filter with Top N parameter
4. Create a visualization

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.
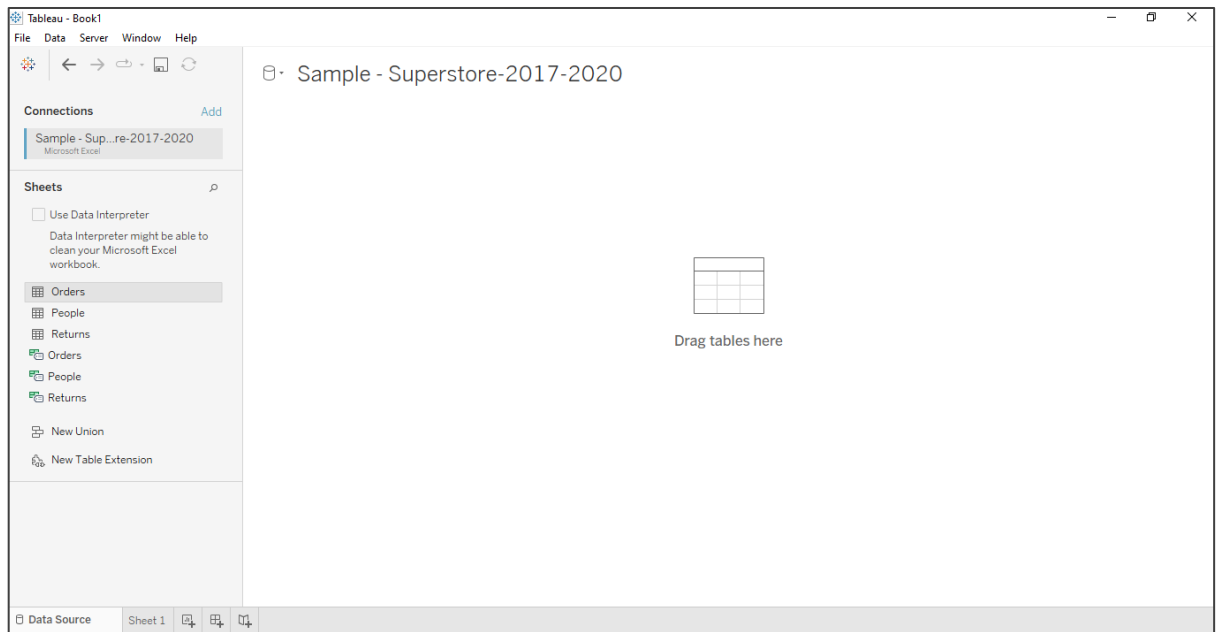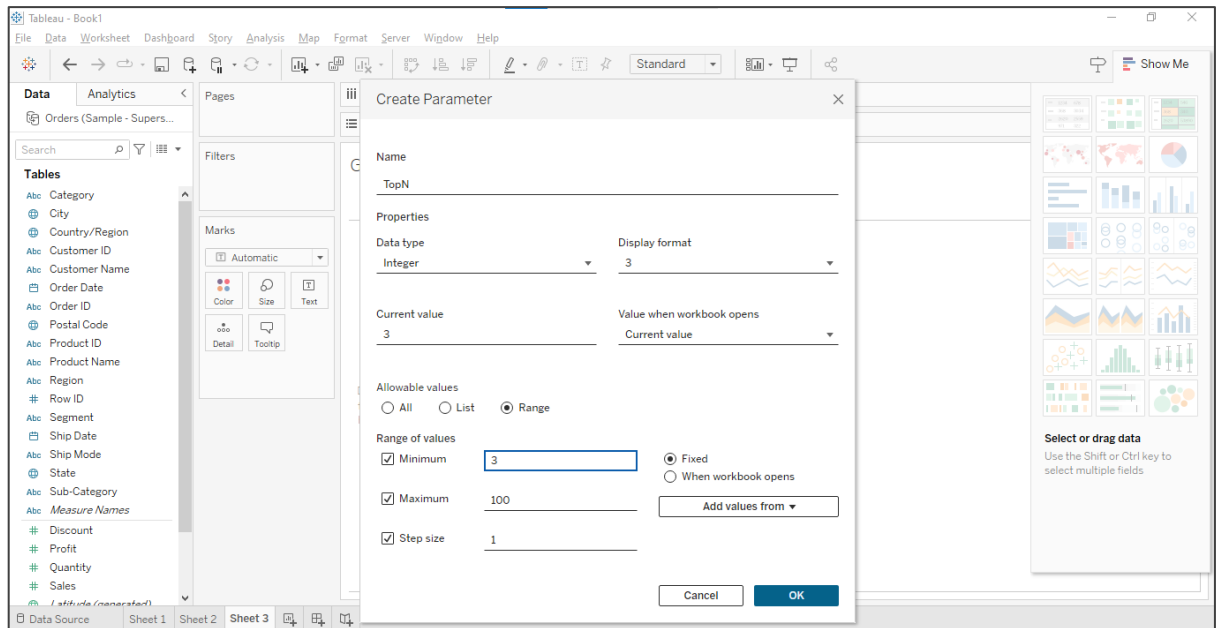
Step 2: Create a Top N parameter
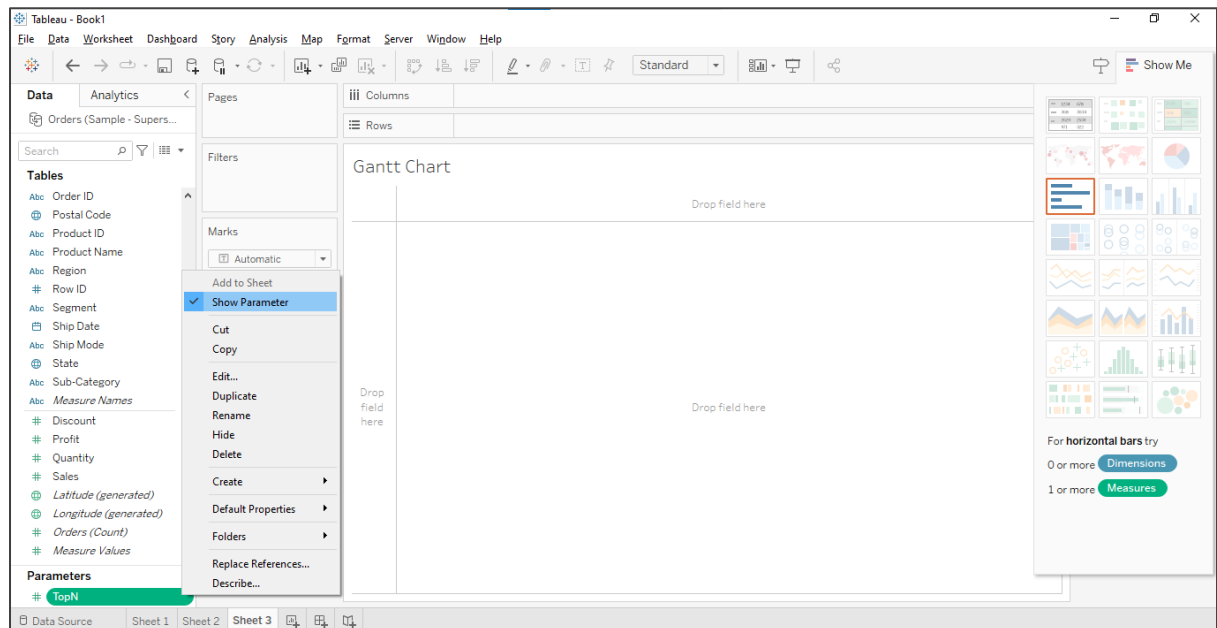
2.1 Select **Create Parameter** from the **Data** pane

2.2 Name the parameter as **Top N**, select **Data type** as **Integer,** and select **Allowable values** as **Range**; set **Minimum** as **3**, **Maximum** as **100**, and **Step size** as **1**, and then click on **OK**
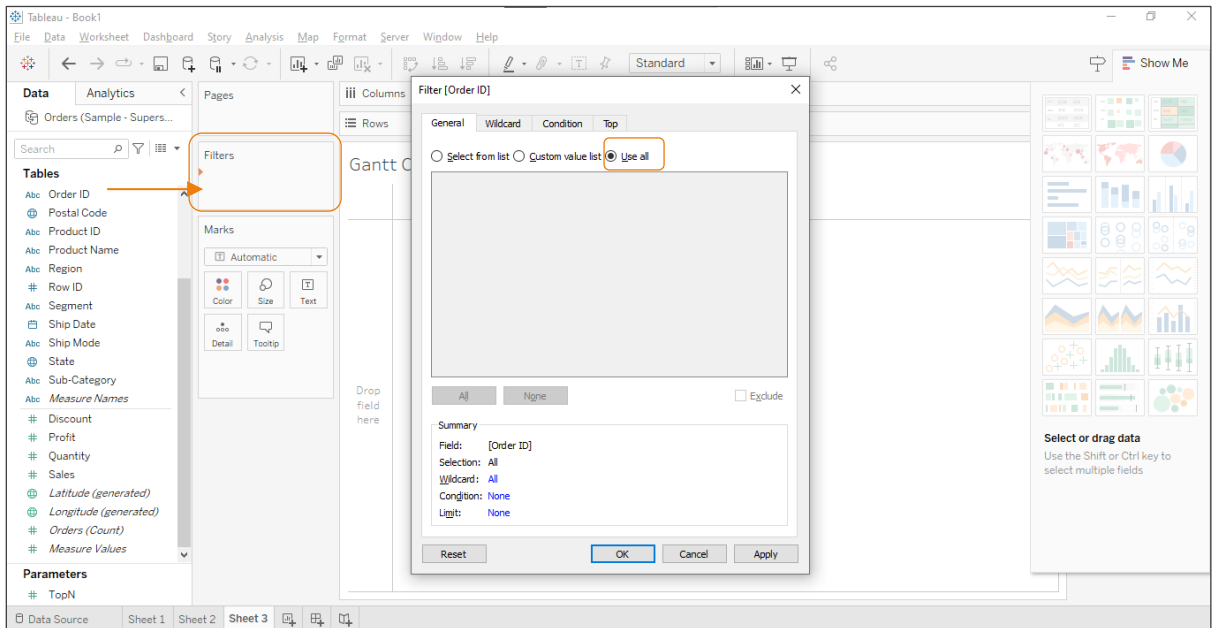
Observation: A new parameter named **Top N** is created.

2.3   Right-click on **Top N** and select **Show Parameter**
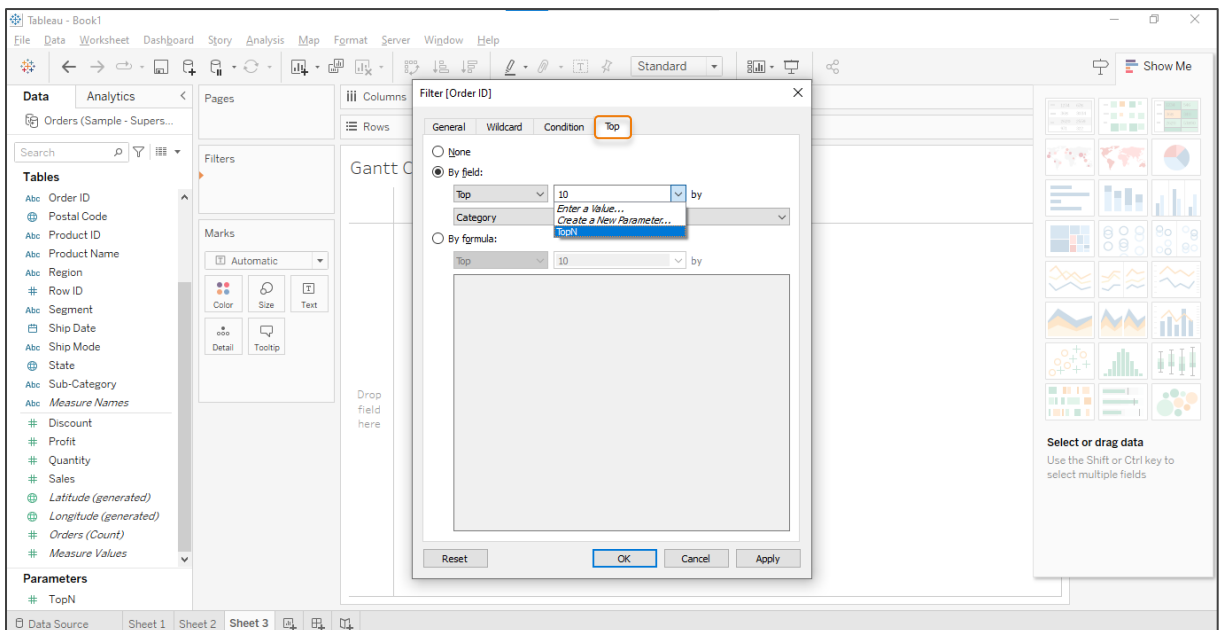
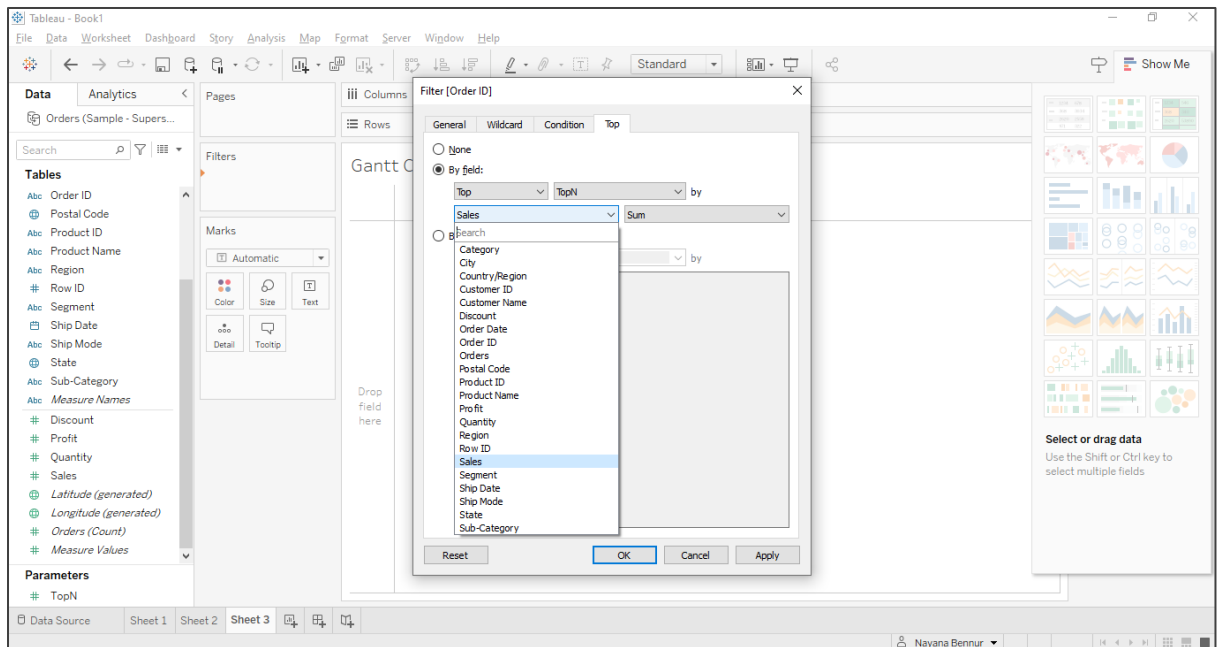

Step 3: Link the Order ID filter with Top N Parameter

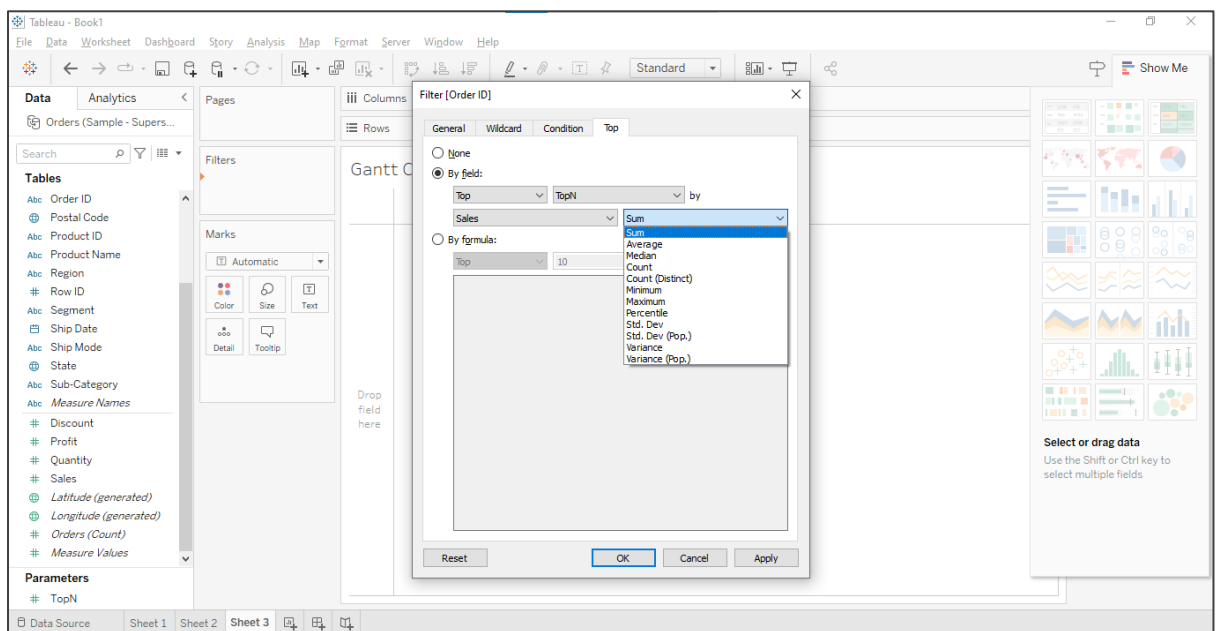3.1   Drag **Order ID** to **Filters**, click on **General,** and select **Use All**

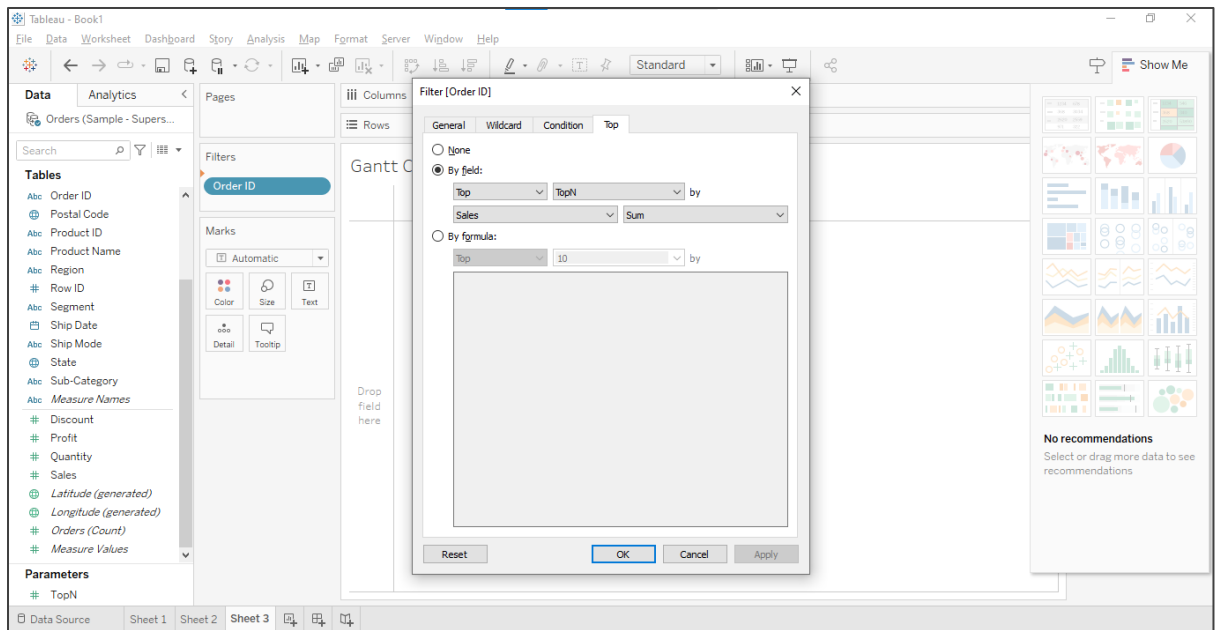3.2   Go to the **Top** section, select **By field,** and connect parameter to **Top N**

3.3   Select **Sales** on the category
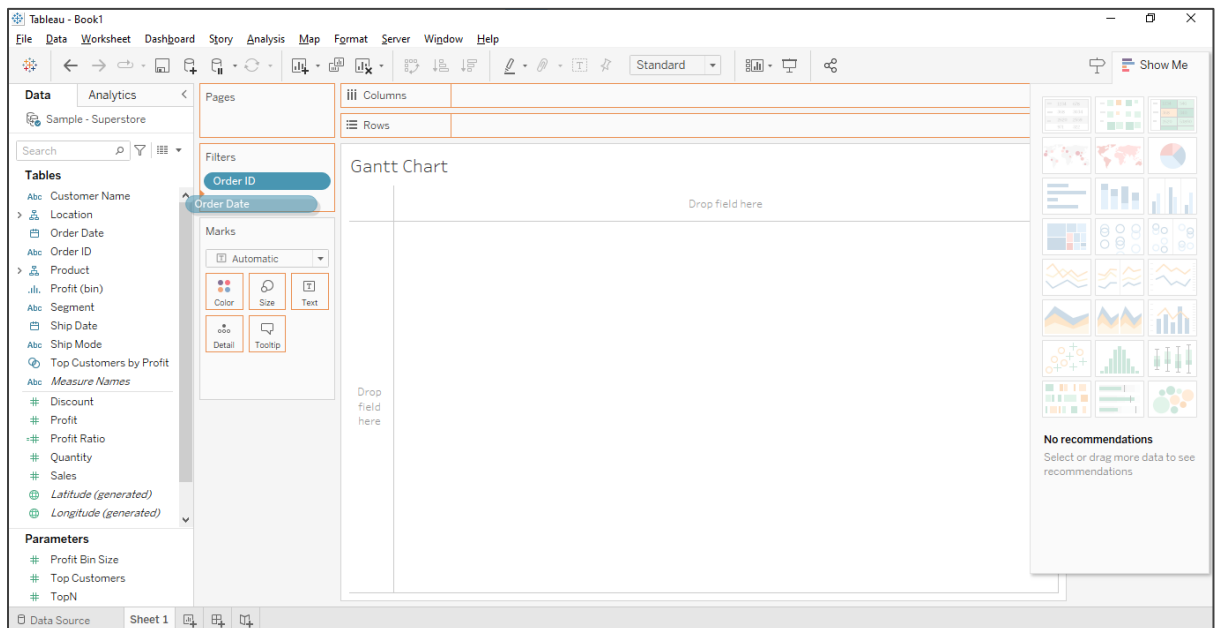
3.4   Select **Sum** on the aggregation
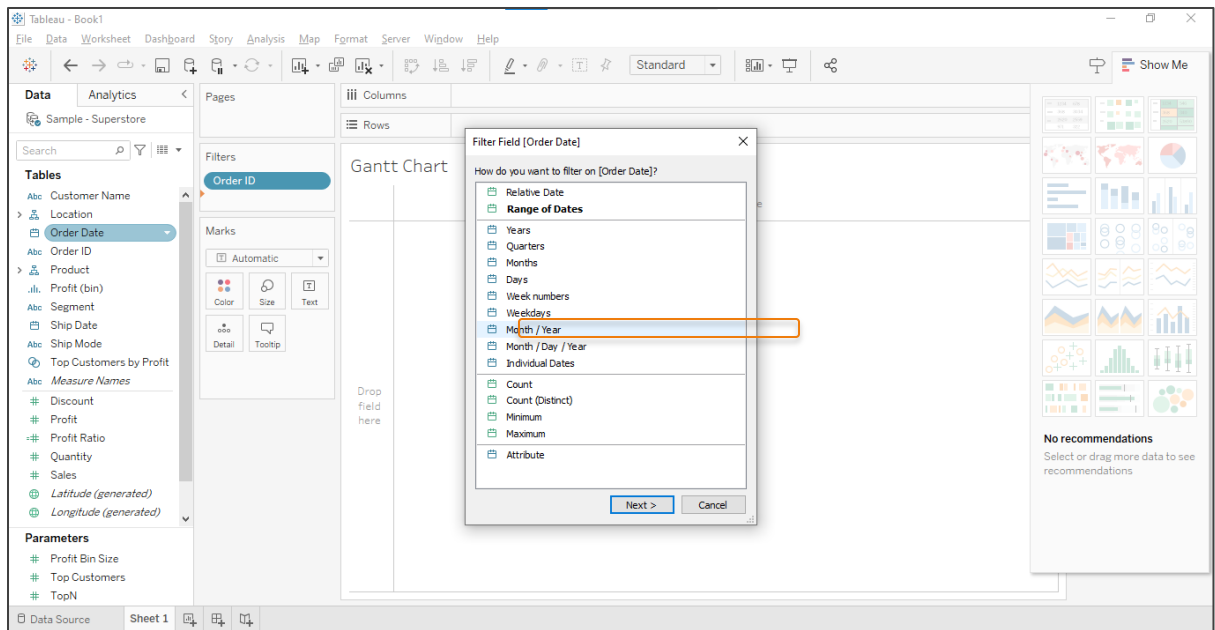

3.5   Click on **Apply** and **OK**

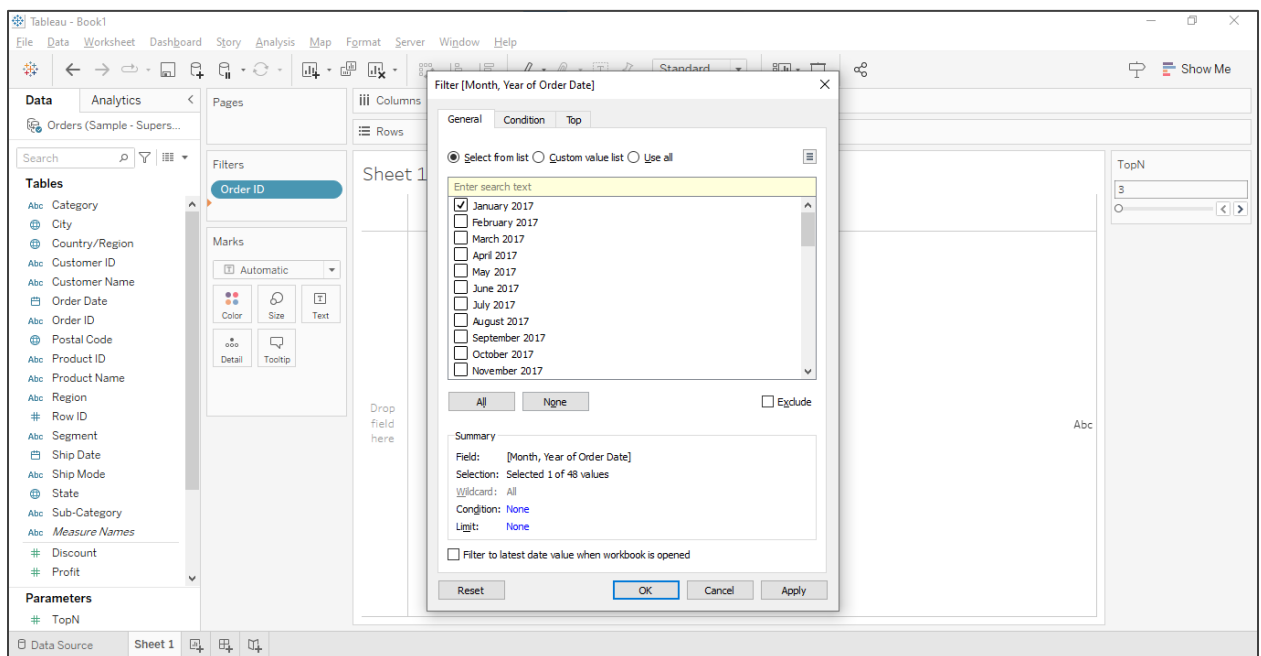## 3.6 Create **Order Date** filter and move to context filter
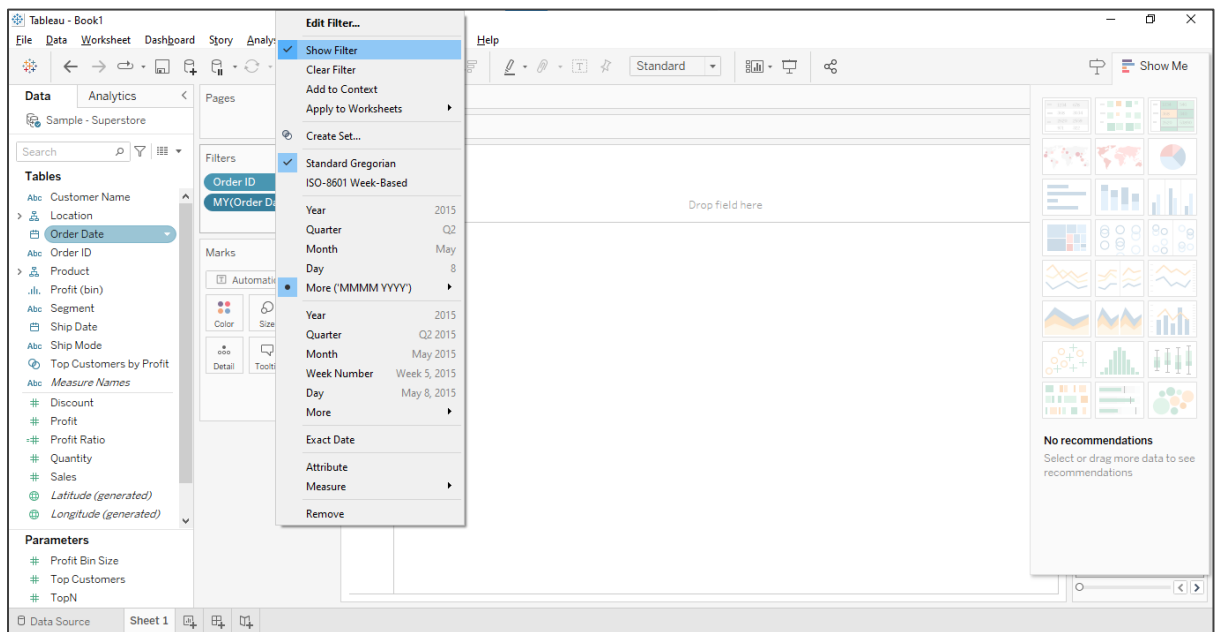
3.6.1 Drag **Order Date** to **Filter**

3.6.2 **Filter Field** appears. Select **Month/Year** and click on **Next**
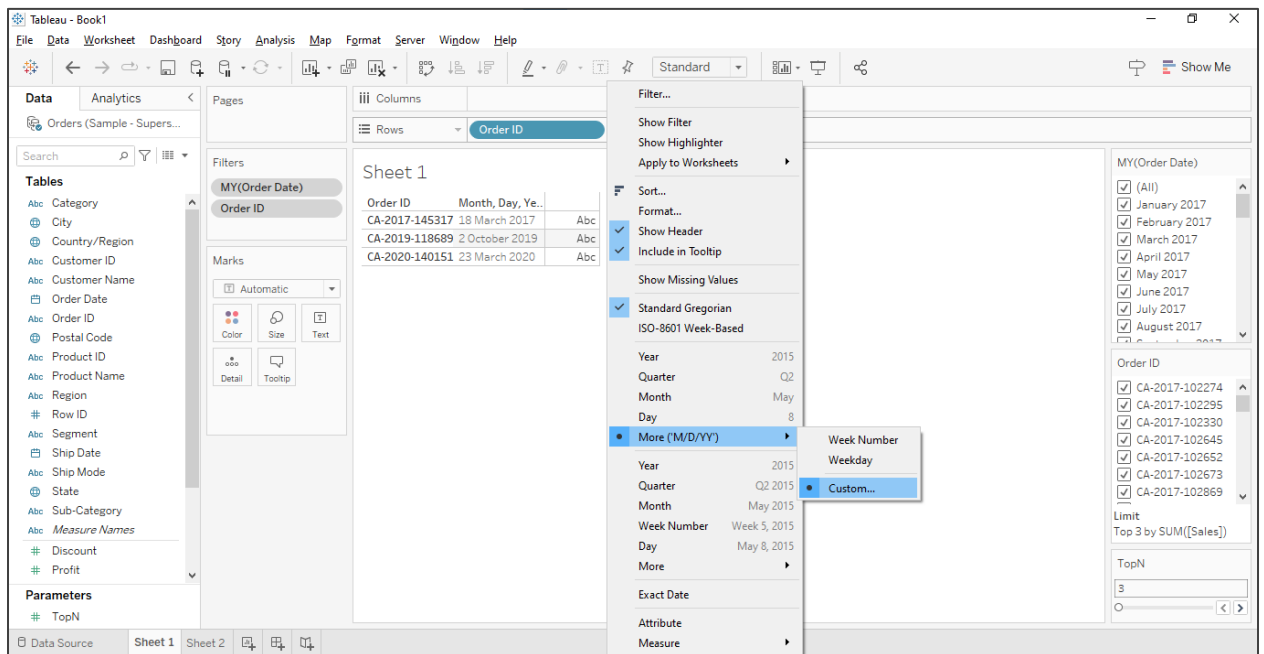
3.6.3 Check on any Month/Year, for example: January 2017, and click on **Apply** and **OK**

3.7 Right-click on the **Order Date** in the filter and select **Show Filter**
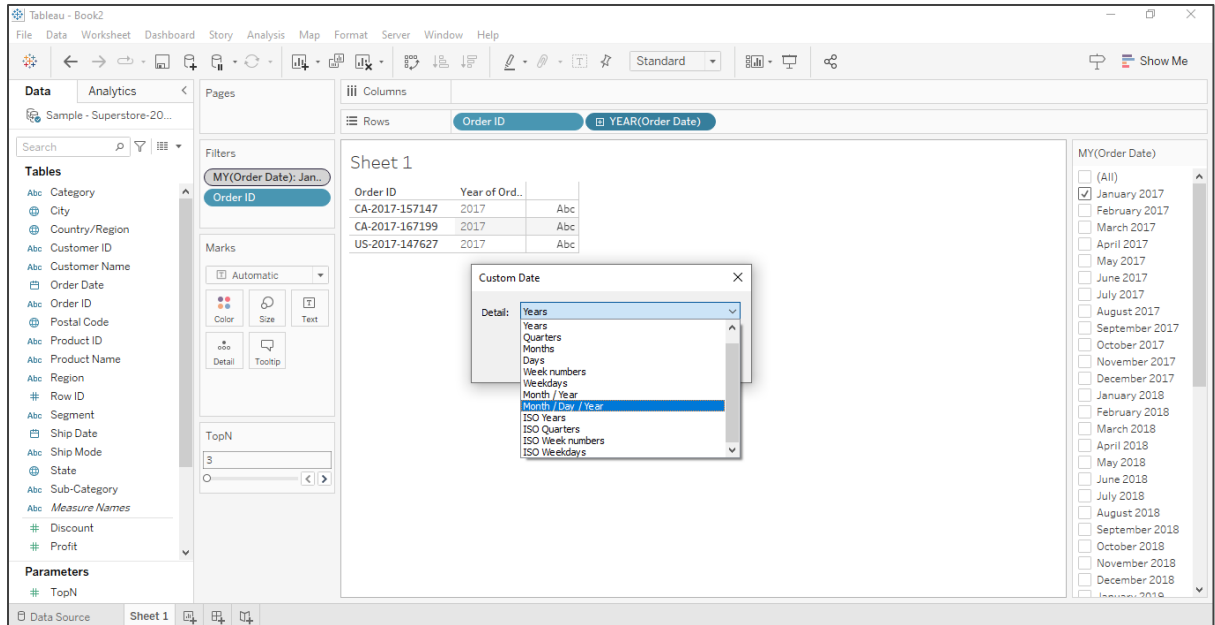
3.8   Drag **Order ID** and **Order Date** onto **Rows**, right-click on the **Order Date ,**and click on **More('M/D/YY')** and **Custom**
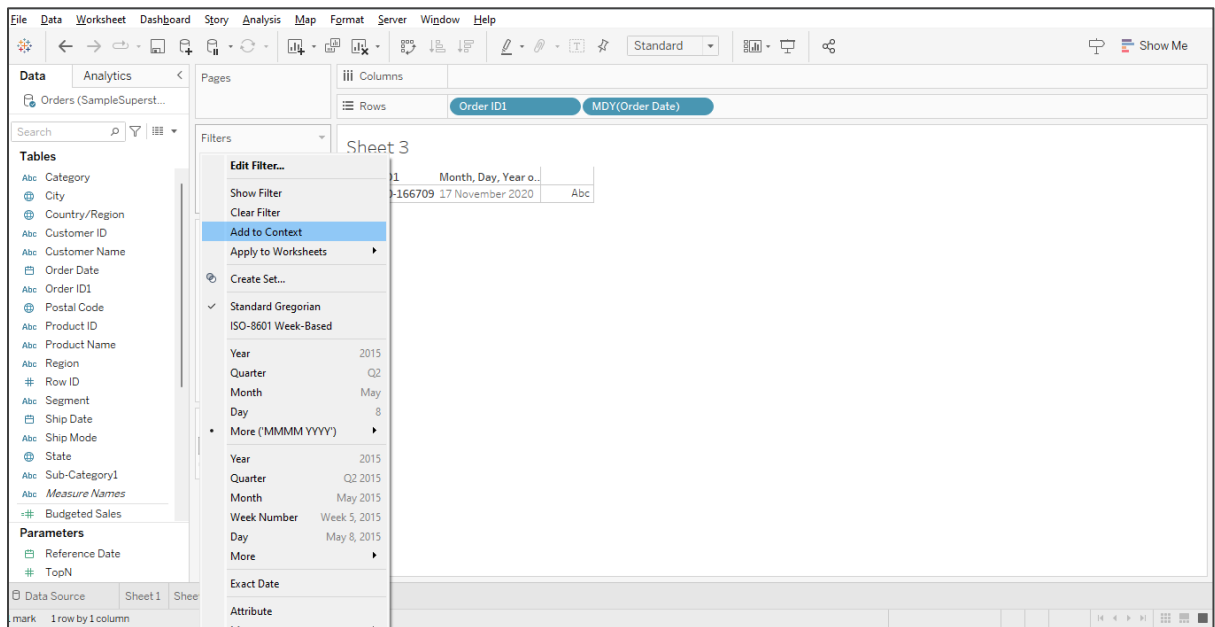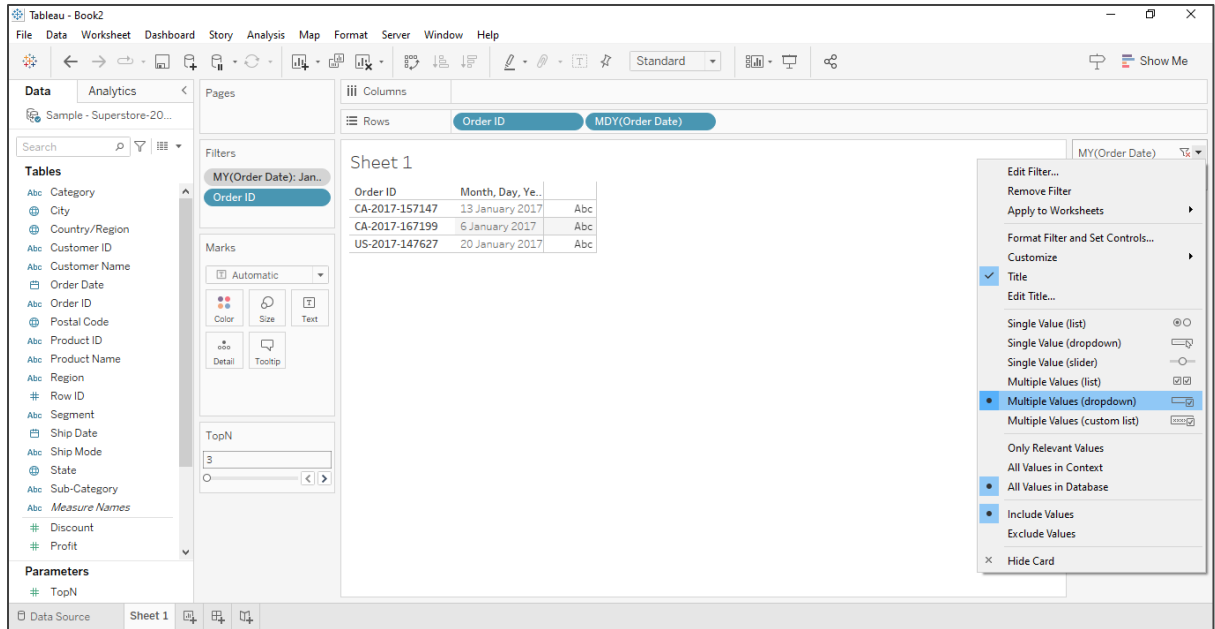

3.9   Select **Month/Day/Year**

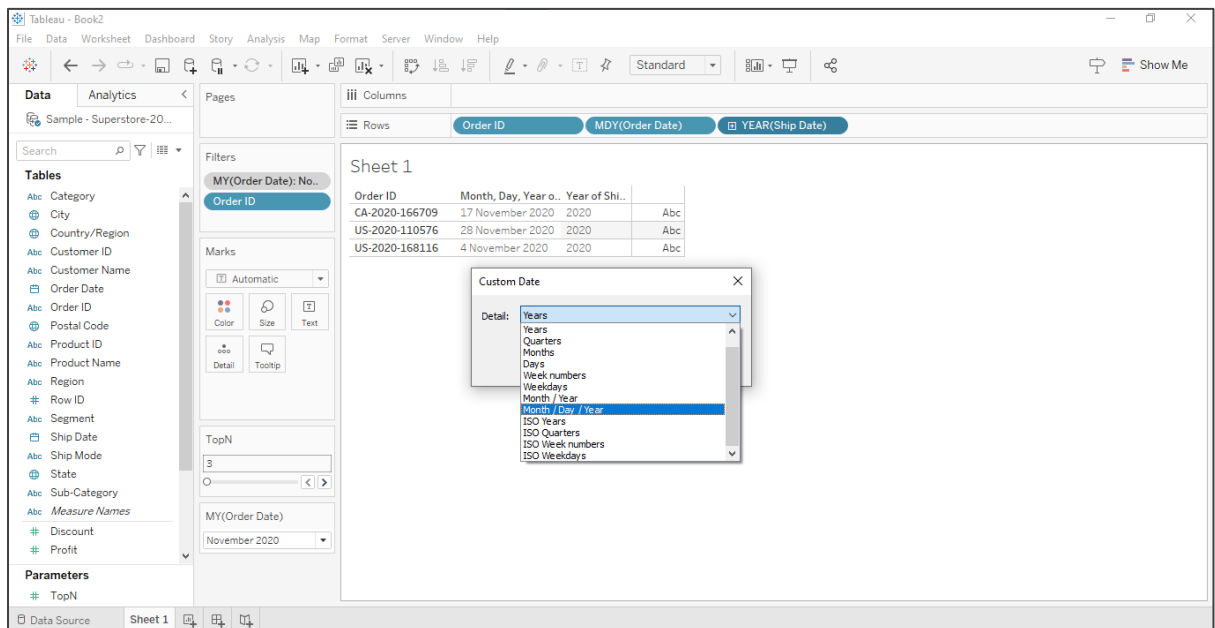**3.10** Right-click on the **Order Date** on **Filters** and click on the **Add to Context**

3.11 On the **Date Filter**, select **Multiple Value (dropdown)**
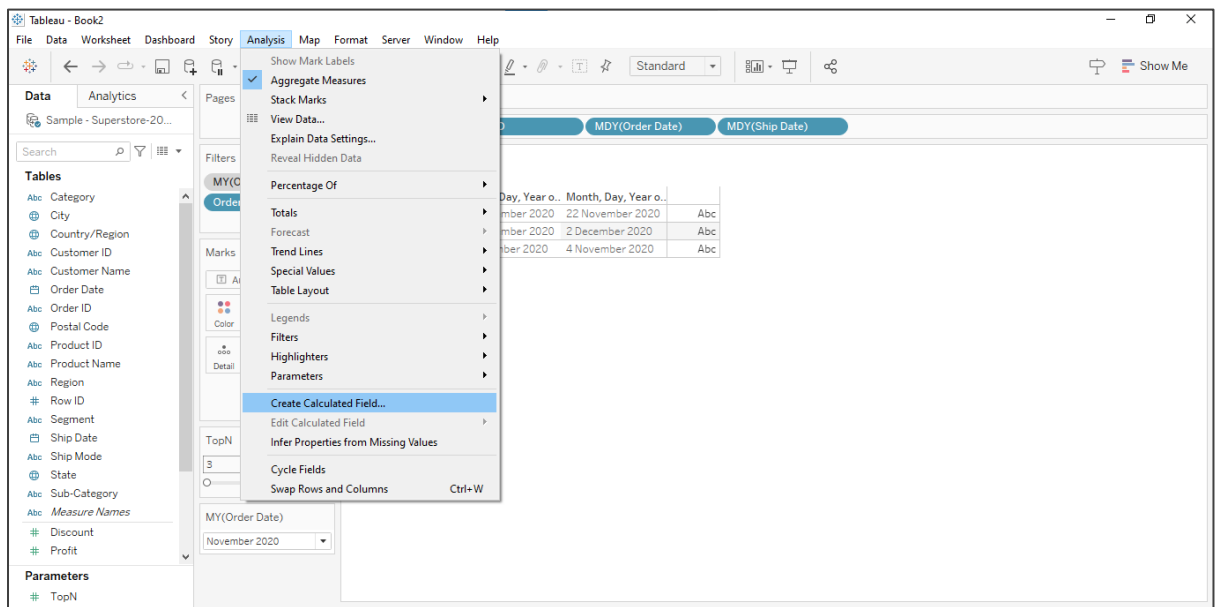
Step 4: Create Visualization
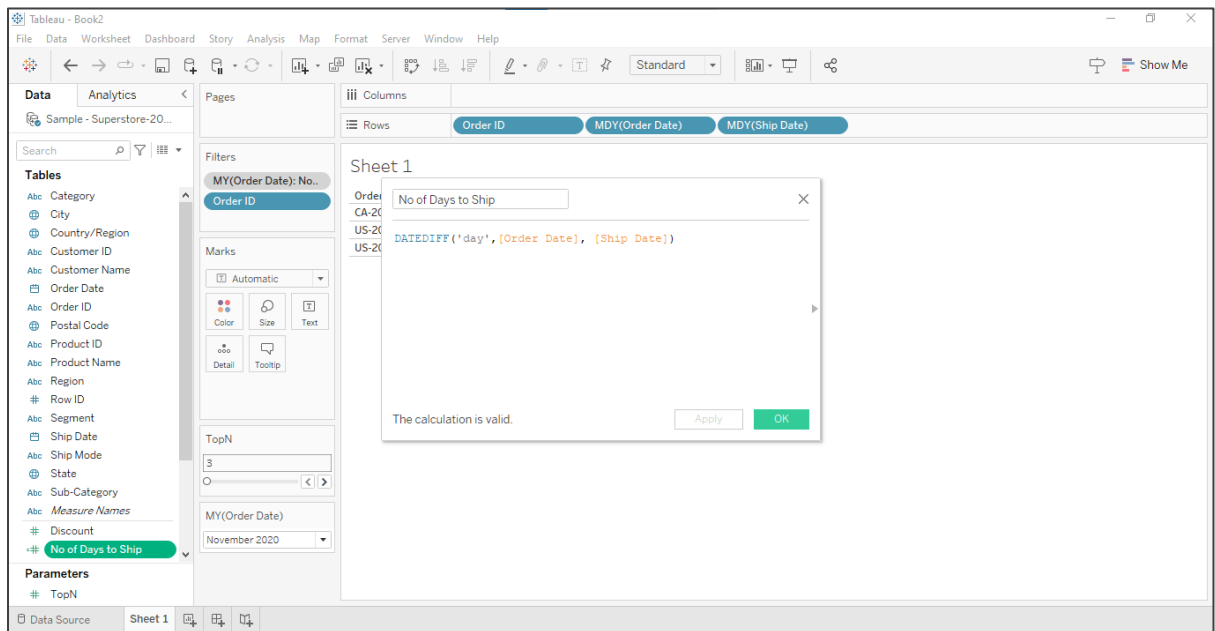
4.1   Drag **Ship Date** to **Rows** and select **Month / Day / Year**

4.2   Go to **Analysis** and click on **Create Calculated Field** to create calculation for days taken to ship the order

4.3 Name the field as **No of Days to Ship**
Use the given function:
DATEDIFF('day',[Order Date], [Ship Date])

Note: You will not use Start_of_Week, as the default start of the week is Sunday. It is used for situations where the start of the week is other than Sunday, for example, in Middle Eastern regions. This calculation appears as a calculated measure.
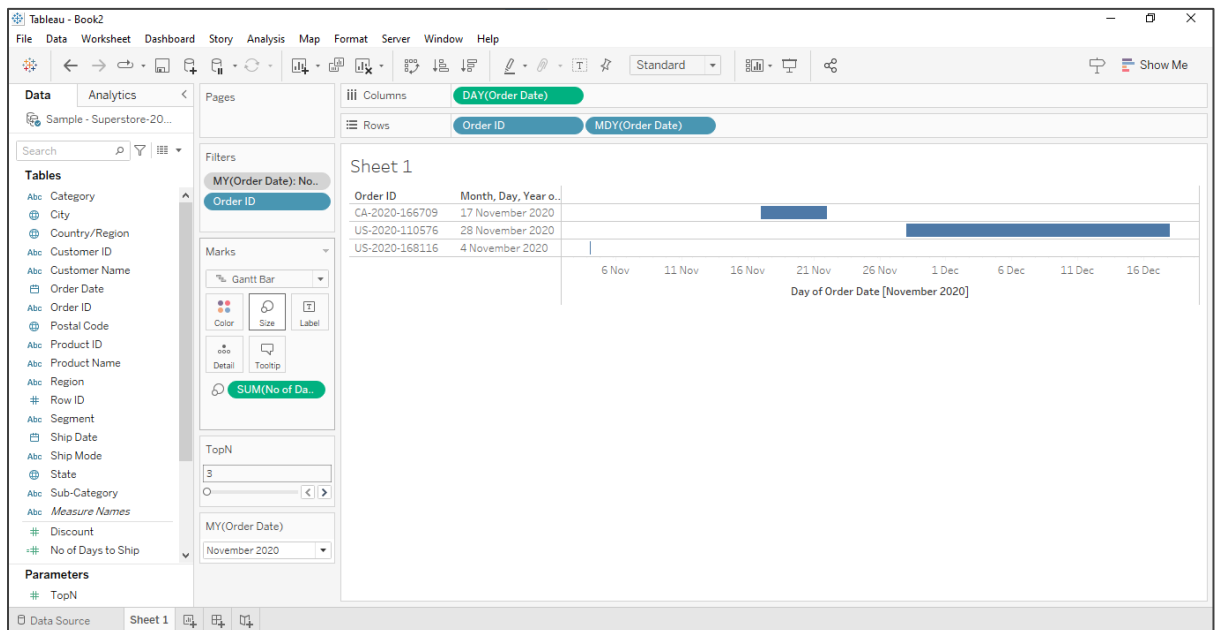
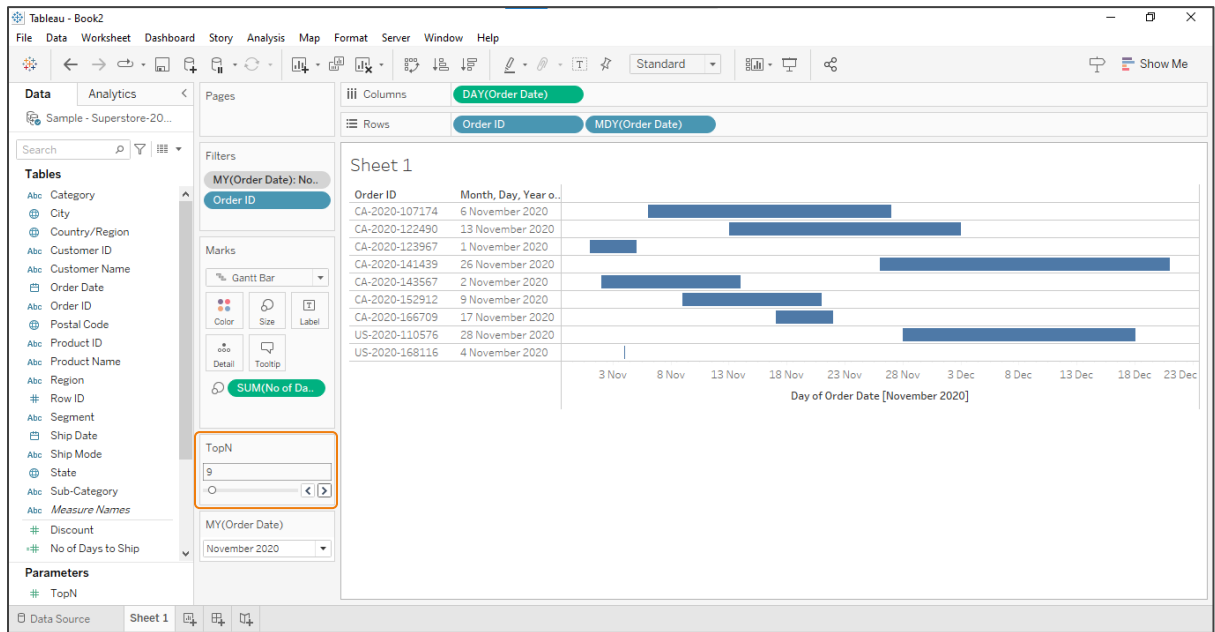4.4 Drag **Order Date** to **Columns** and change it to date value (continuous) day (as you need the chart in days)
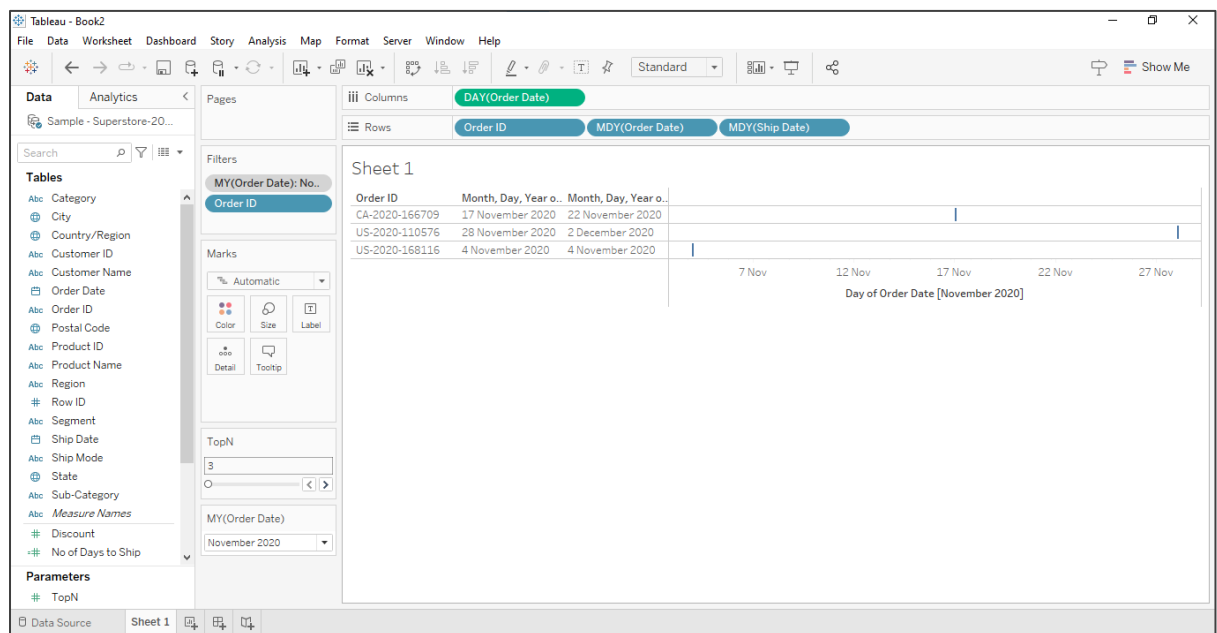
4.5 Change the **Marks** type to **Gantt**.
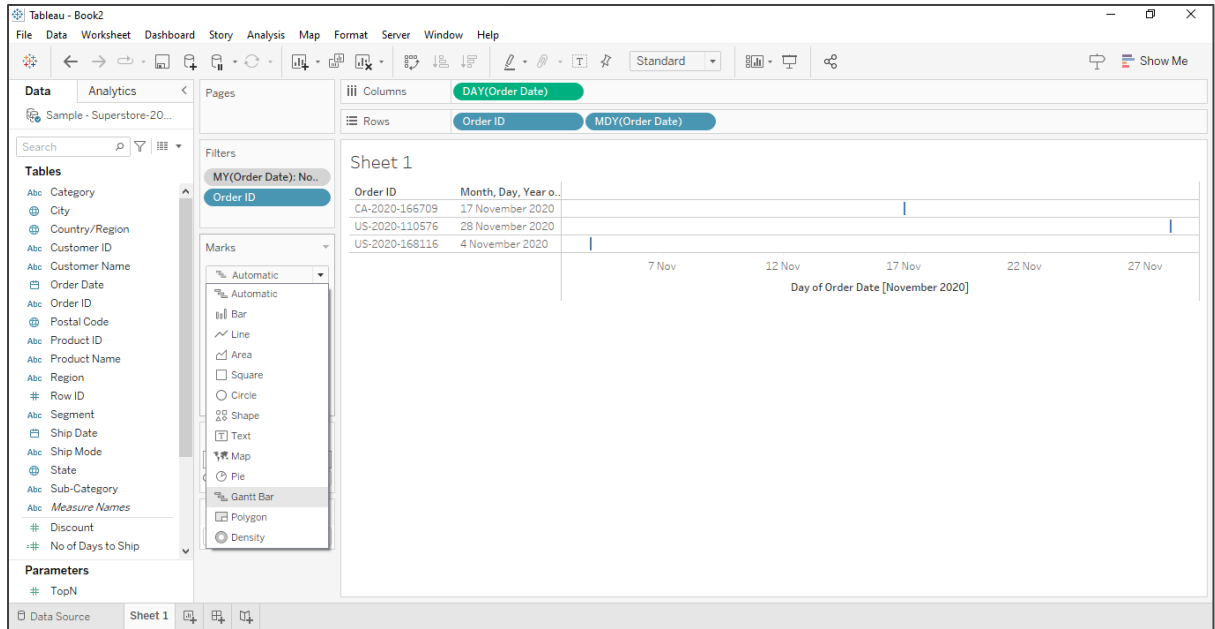
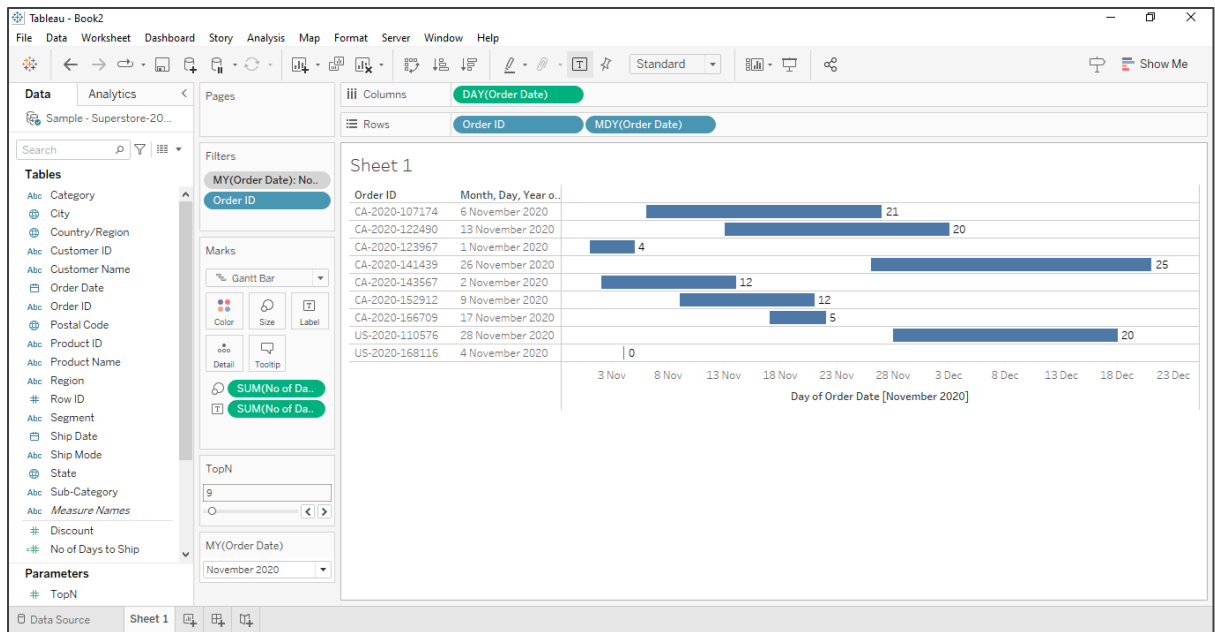4.6   Drag the **No. of Days to Ship** measure to **Size** marks

Note: For a better view, change **Top N** value to **9**

4.7 Move the **No. of Days to Ship** field to **Label** on the Menu. This will add the label to Gantt bars.

Note: Uncheck "Aggregate Measures" from the Analysis menu. The reason is that the Gantt chart, without unchecking the Aggregate Measure option, shows the aggregate days for each order. If there are multiple products in the order, they will be aggregated. Thus, if you do not want them to be aggregated, then we need to uncheck "Aggregate Measures" from the Analysis menu.

By following these steps, you were able to visualize the shipping duration of orders using a Gantt chart in Tableau.