PIE AND DONUT CHARTS

Pie and Donut charts are used to show proportions of a whole.
They are used to easily visualize the Part-to-Whole relationships.

Donut charts are like Pie Charts but with a hole in the center.
Both Pie and Donut Charts fall under the Composition Visual Segment.

The basic building blocks for a pie chart are as follows:

Mark Type: Pie
Color: Dimension
Angle: Measure

PIE AND DONUT CHARTS

Advantages of Pie Charts:
- Provide an easy manner to visualize the part-to-whole relationship in relative terms
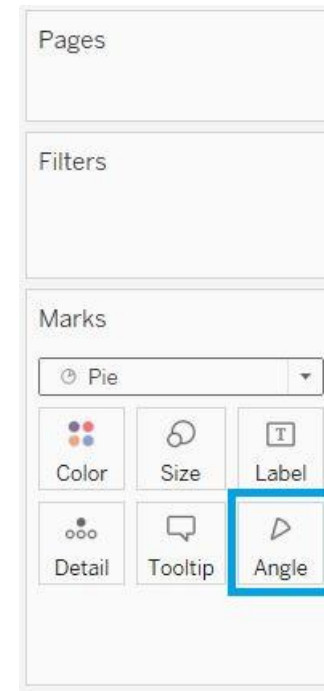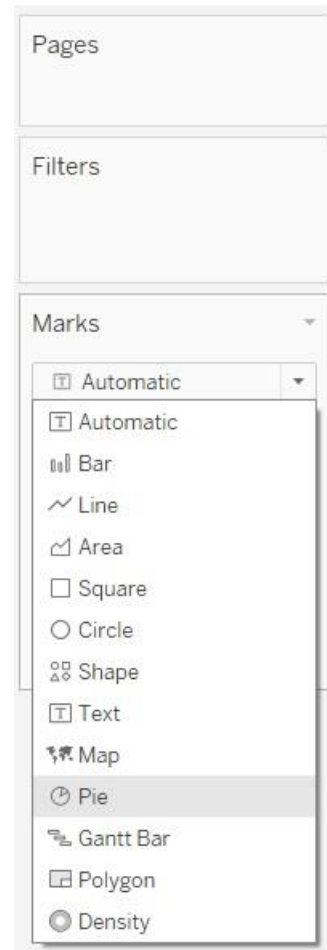- Familiar Shape
- Most used chart type

Disadvantages of Pie Charts:
- Will not be useful if the number of segments/slices exceed 3 as it becomes confusing and cluttered
- Difficult to read, because it's easier to distinguish difference in length (Bar Charts), than in angle
- Not very good when we need to compare the exact portions e.g: percentages etc.
- It's very easily misused and misinterpreted
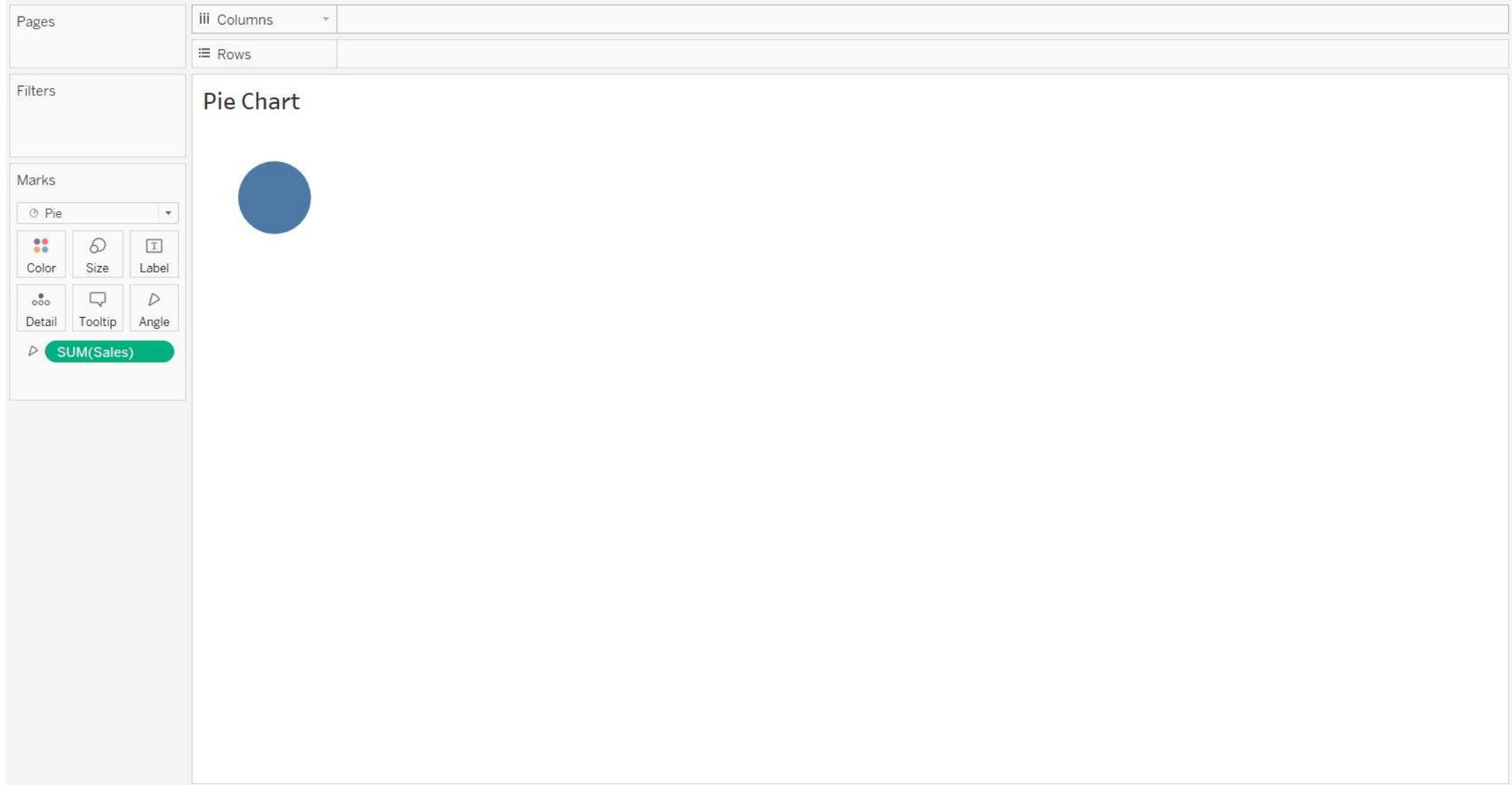
STEPS TO CREATE A PIE CHART

Step 1: Select the **Pie** from the **Marks** card drop-down

Once this is done a new option **Angle** will be observed in the **Marks** card
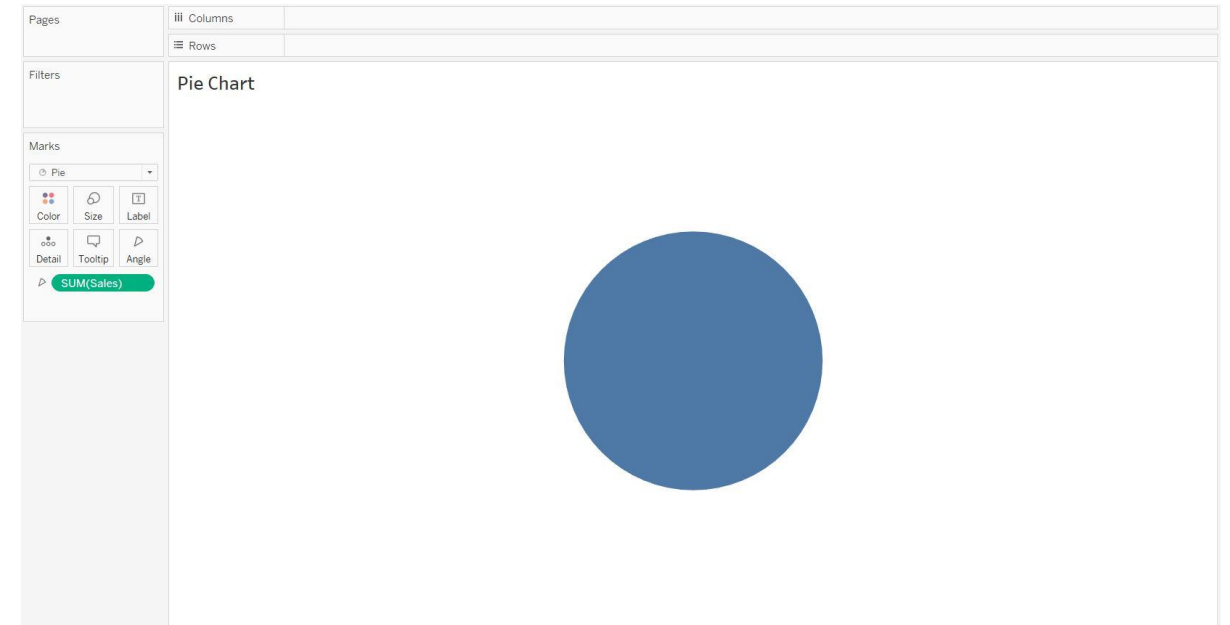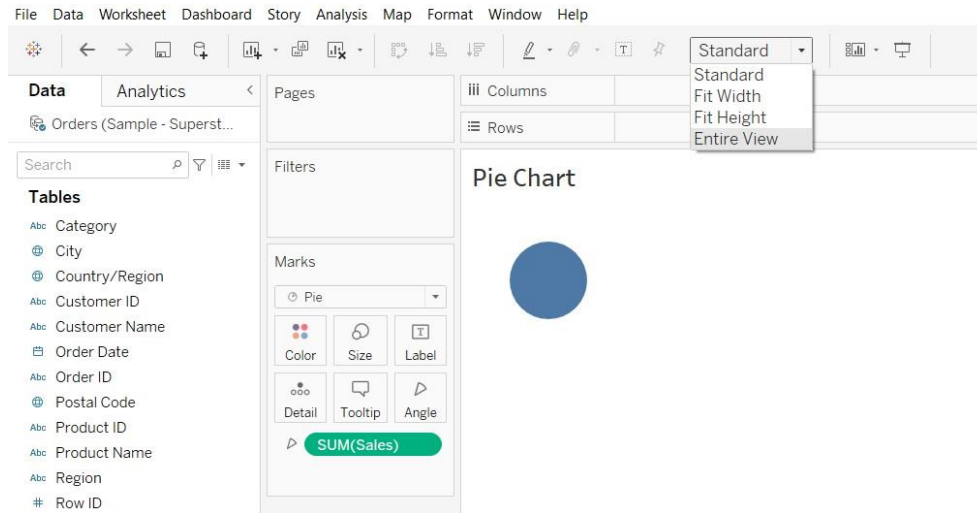
STEPS TO CREATE A PIE CHART

Step 2: Drag the measure e.g: **Sales** to **Angle** on the **Marks** card
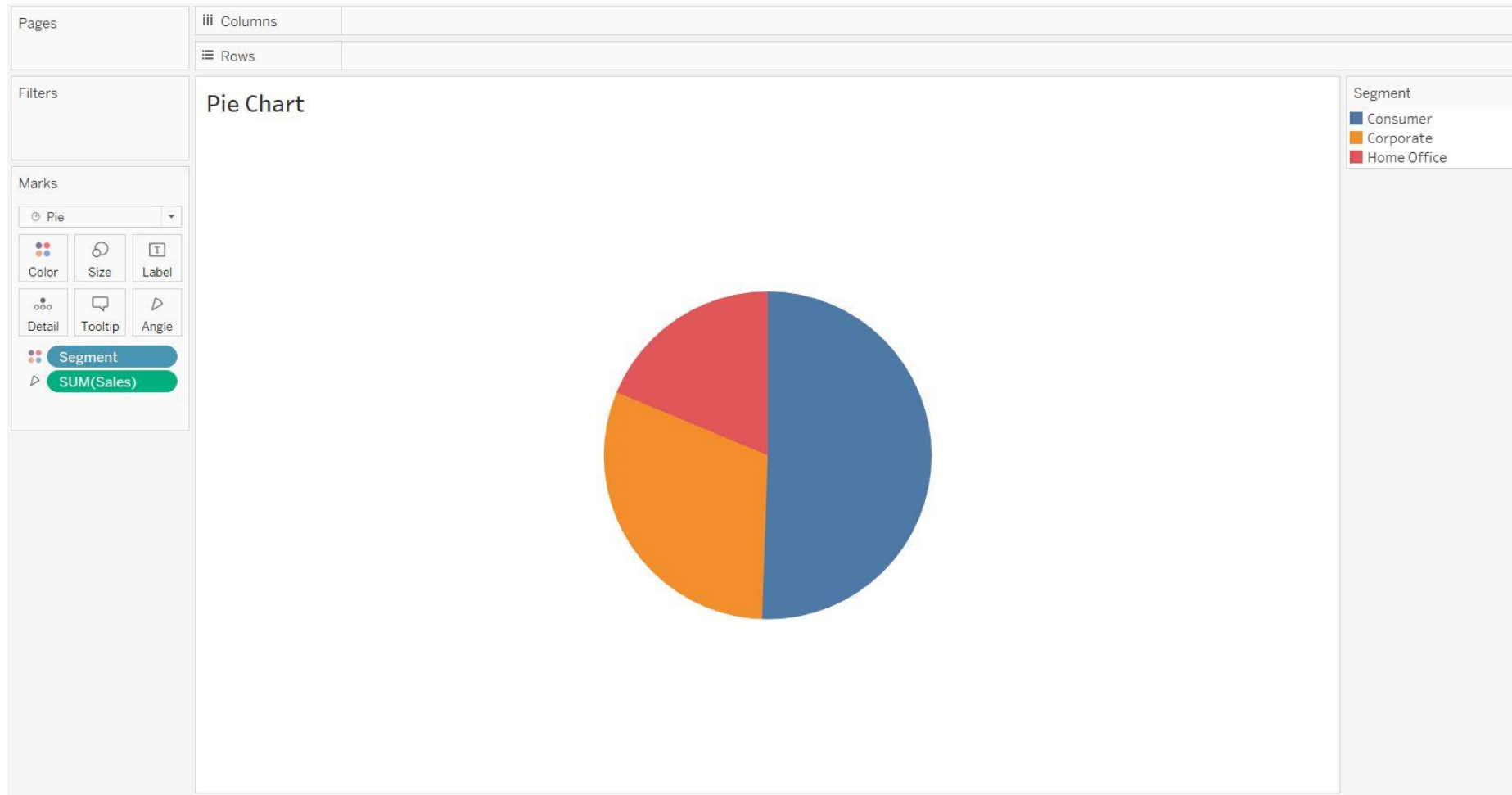
STEPS TO CREATE A PIE CHART

Step 3: Select **Entire View**
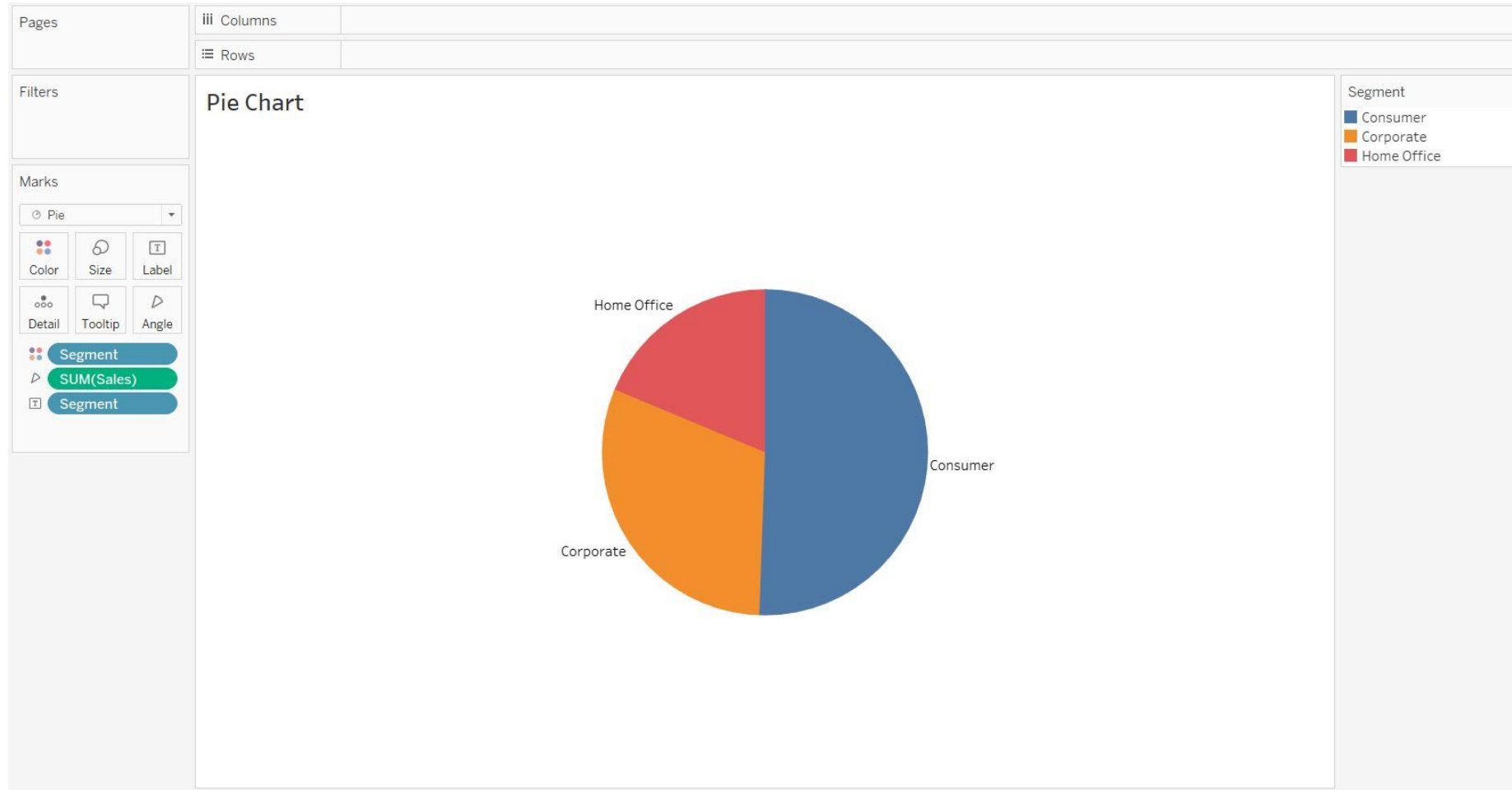This is the 100% Pie Chart of Sales measure

STEPS TO CREATE A PIE CHART

Step 4: Next, we need to determine what breaks up or slices this Pie
Drag the dimension e.g: **Segment** to **Color** on the **Marks** card
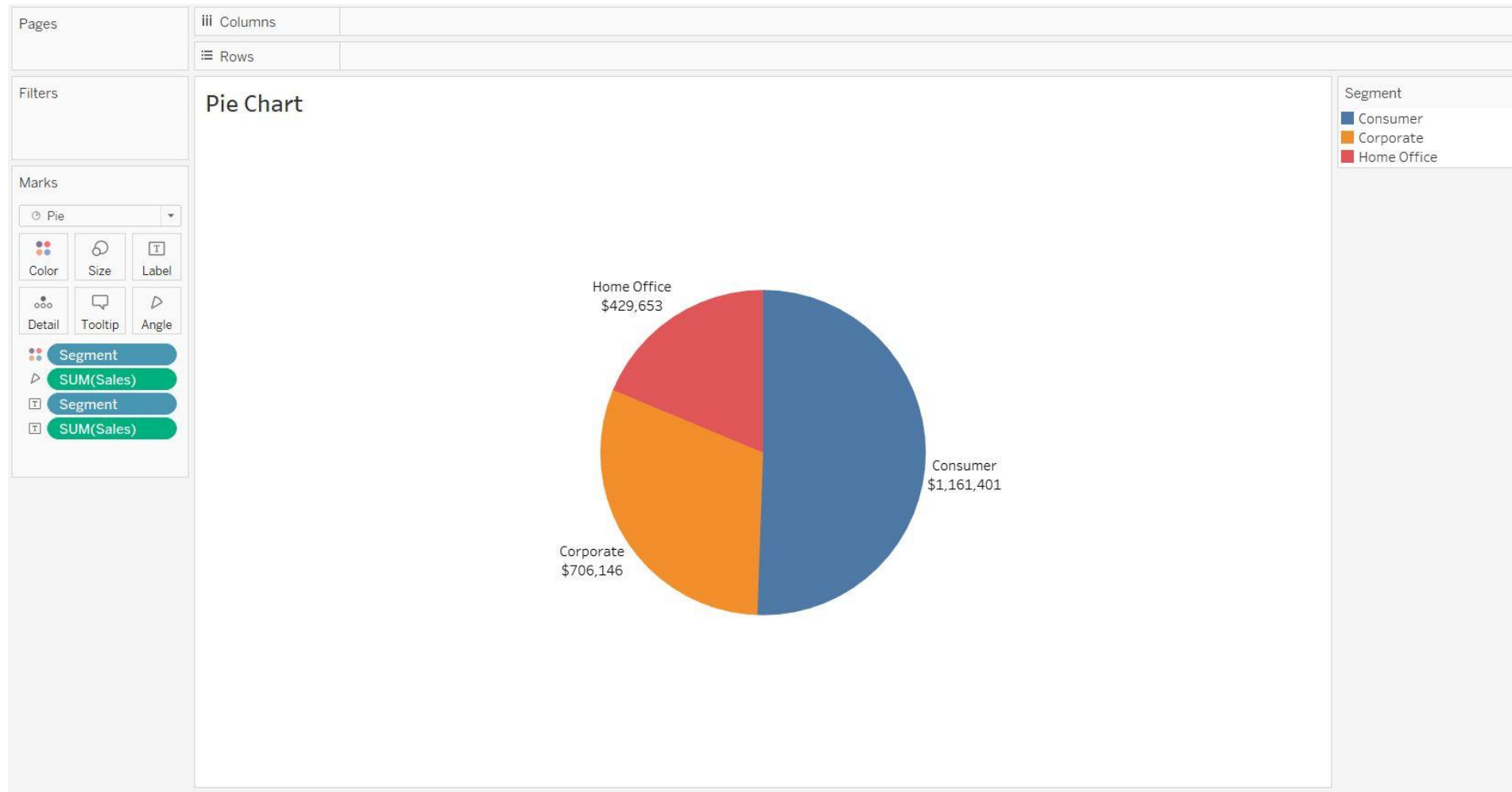The color legend will now appear on the right side of view area

STEPS TO CREATE A PIE CHART

Step 5: It is typically required to have labels for easy identification of slices
Drag the **Segment** to the **Label** on the **Marks** card
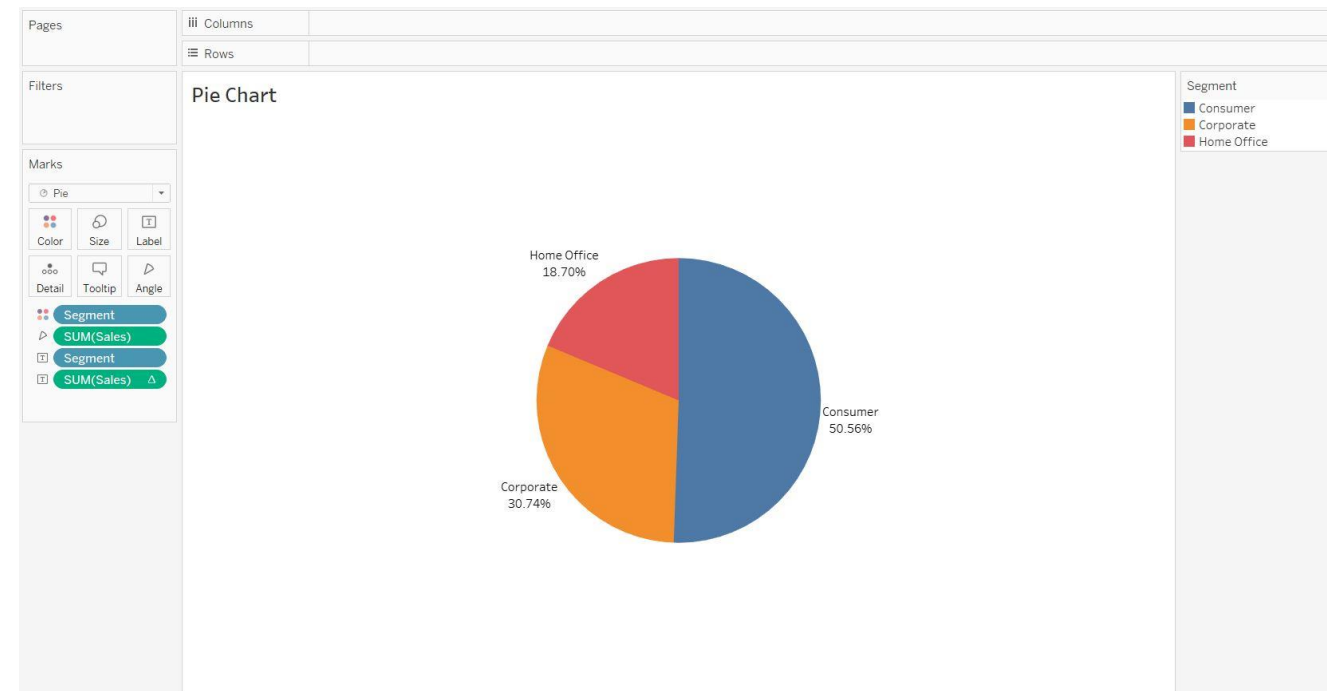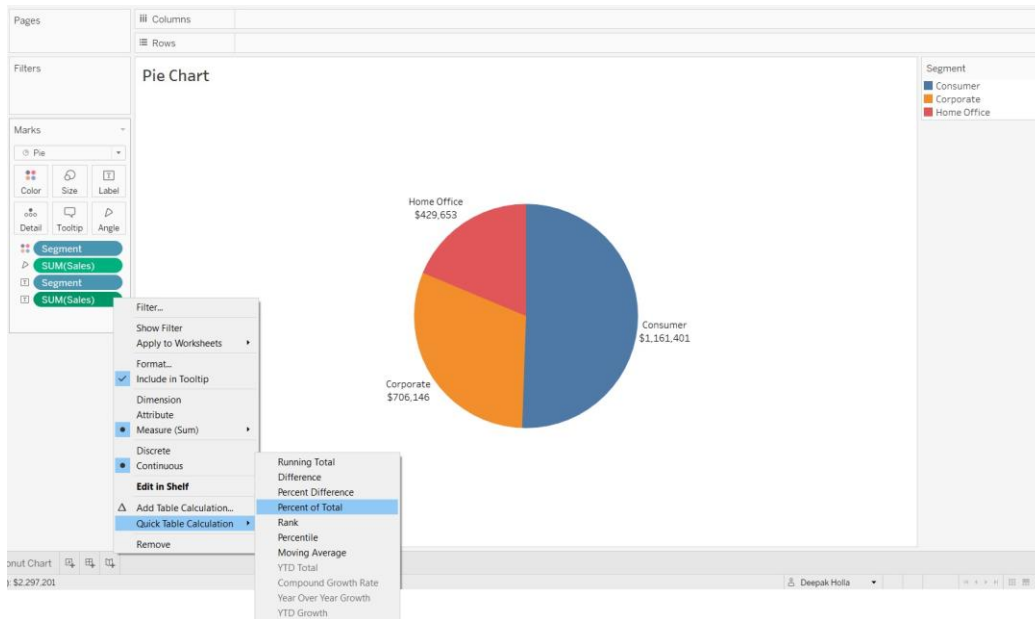
STEPS TO CREATE A PIE CHART

Step 6: Drag the **Sales** to the **Label** on the **Marks** card
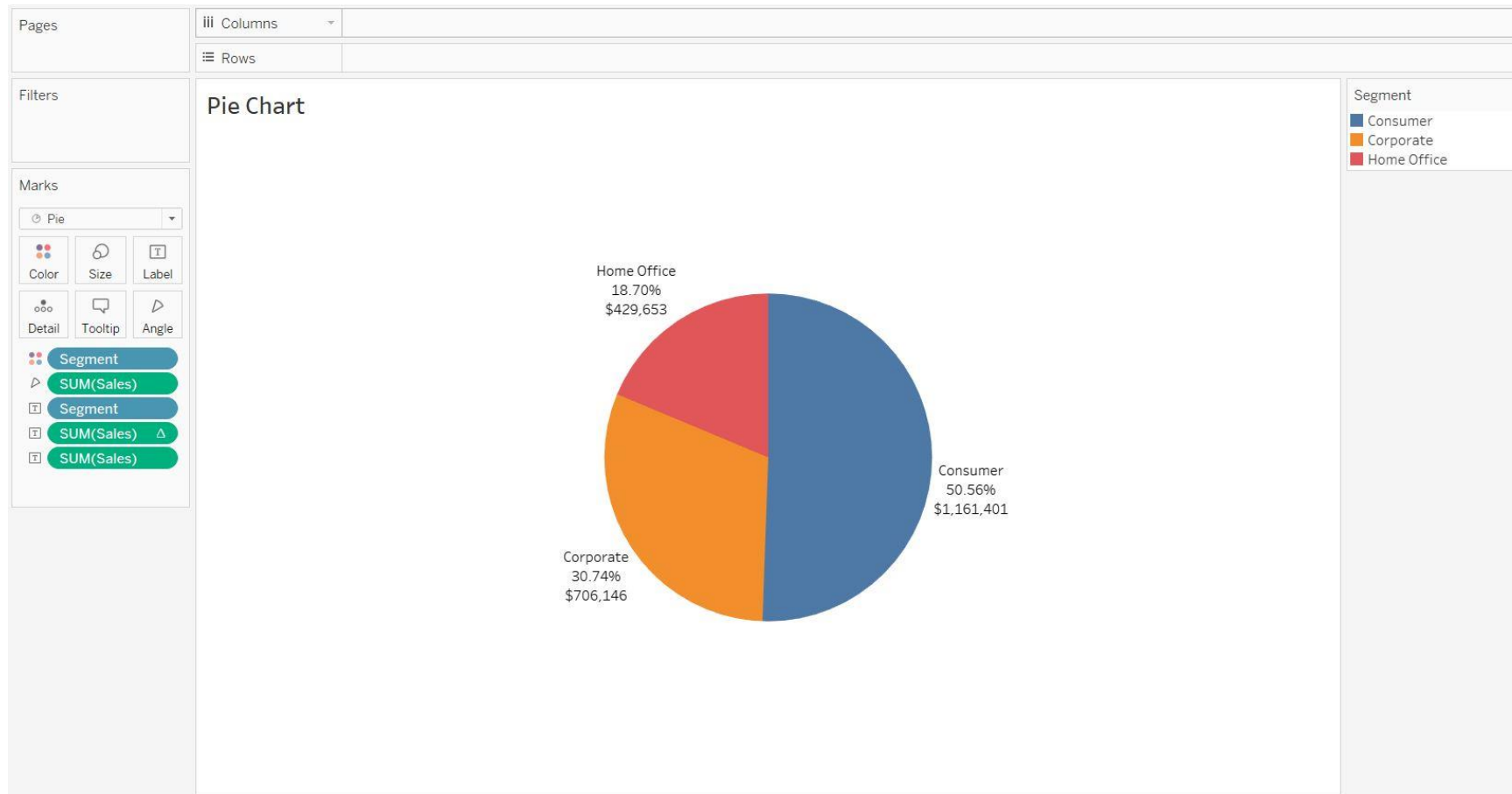
STEPS TO CREATE A PIE CHART

Step 7: Since we normally consider whole circle as 100% it is preferred to have the measure labels for the slices in terms of percentages
Right-click on **Sales** Label, **Quick Table Calculation** > **Percent of Total**
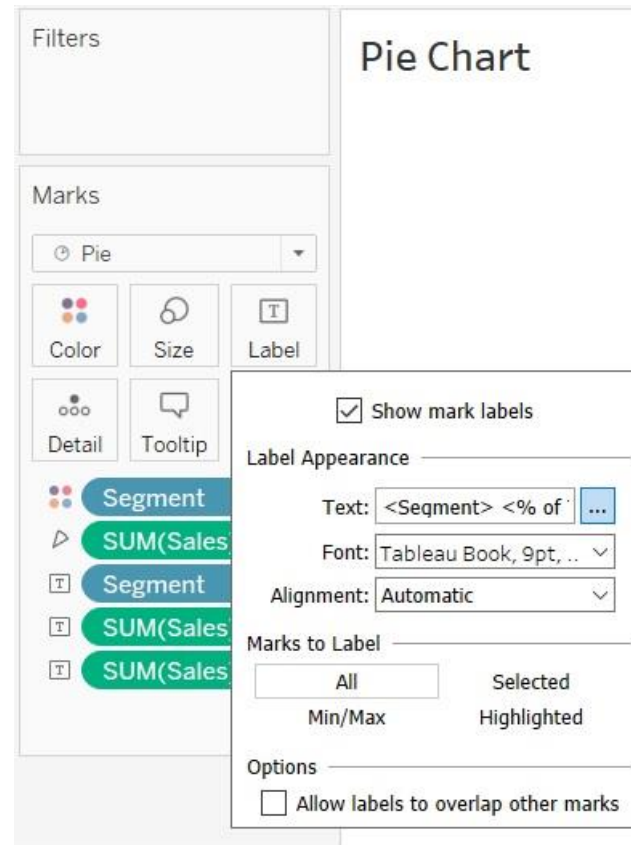
STEPS TO CREATE A PIE CHART

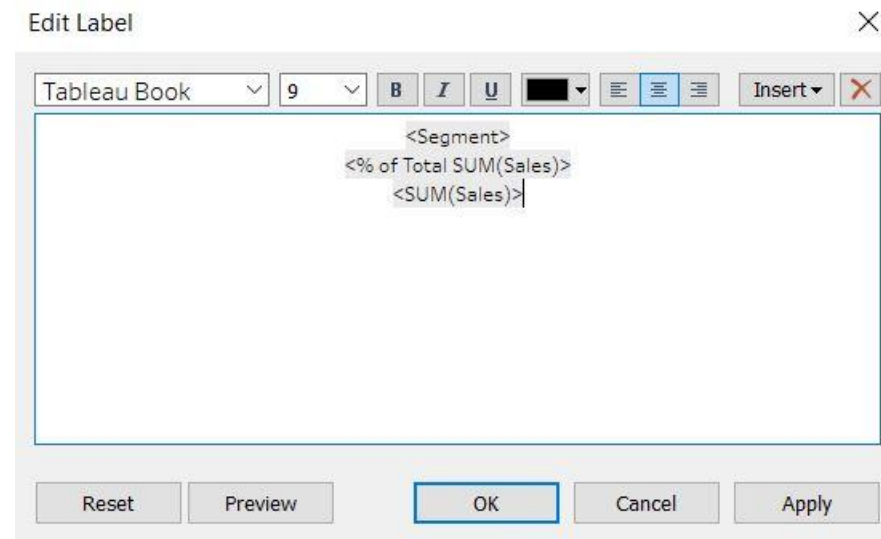**Step 8:** If required the **Sales** (original format) can be dragged to the **Label** on the **Marks** card

STEPS TO CREATE A PIE CHART

Step 9: If required the Label can be edited by clicking the 3 ellipses next to Text of Label on the Marks card
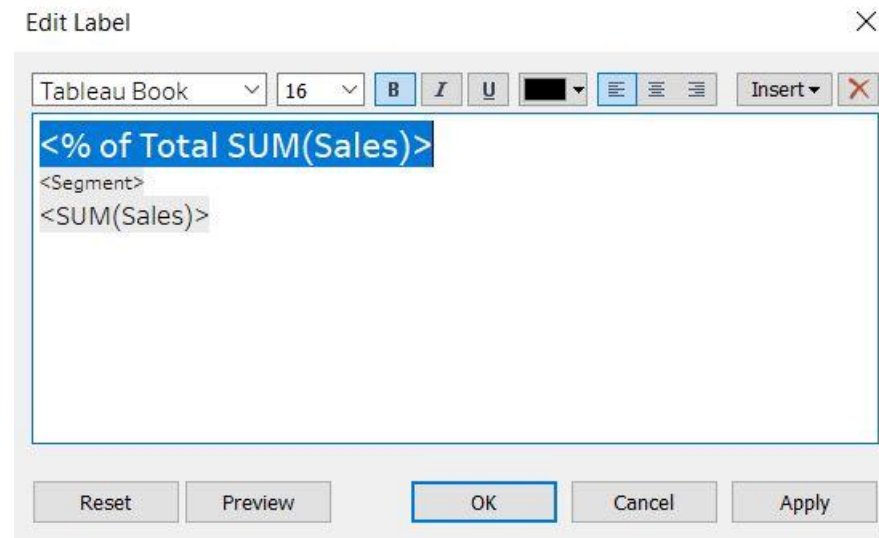
STEPS TO CREATE A PIE CHART
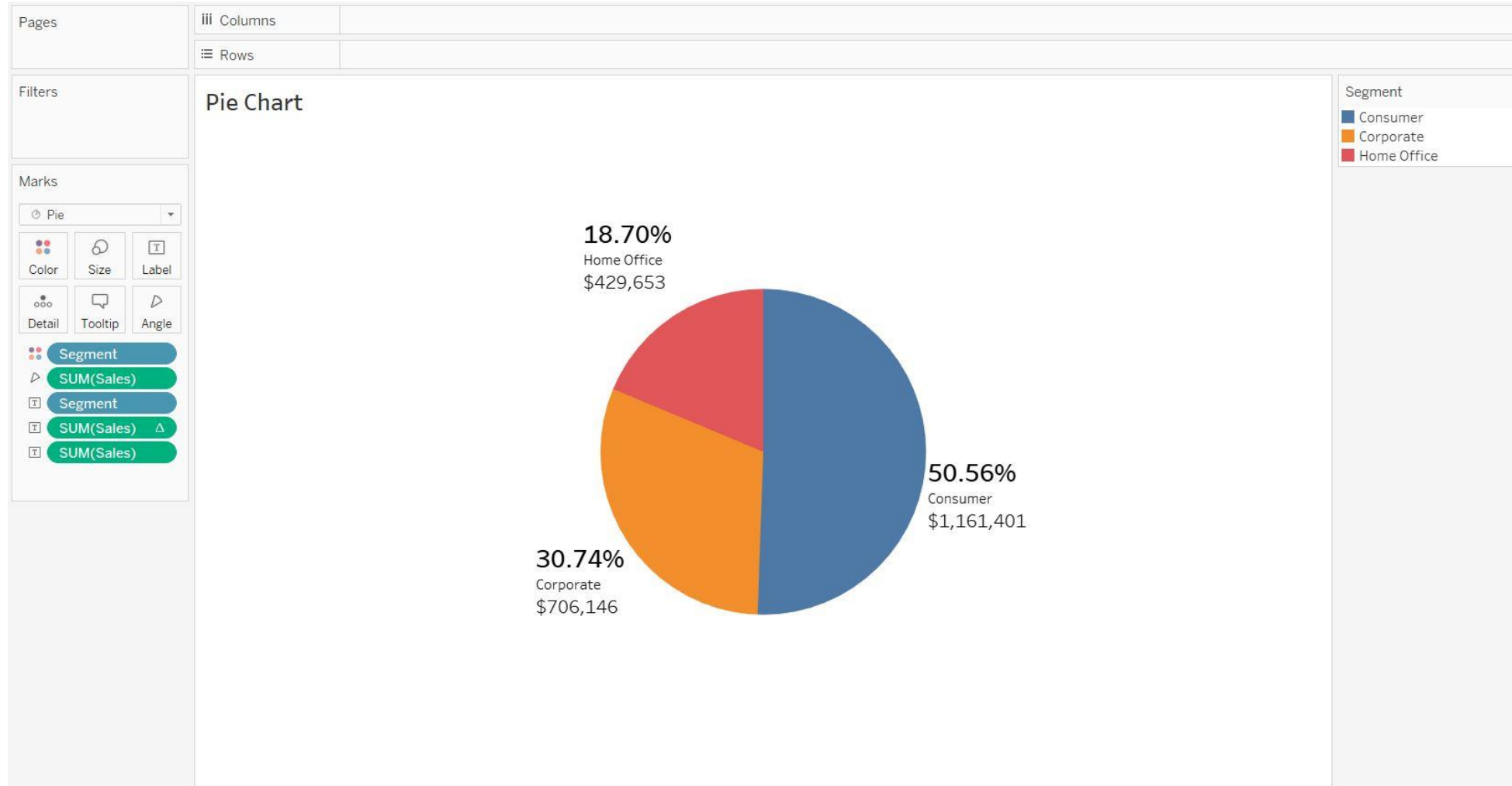
Step 10: Edit Label dialog box will appear

STEPS TO CREATE A PIE CHART

Step 11: Carry out the necessary changes to the text label as per requirement
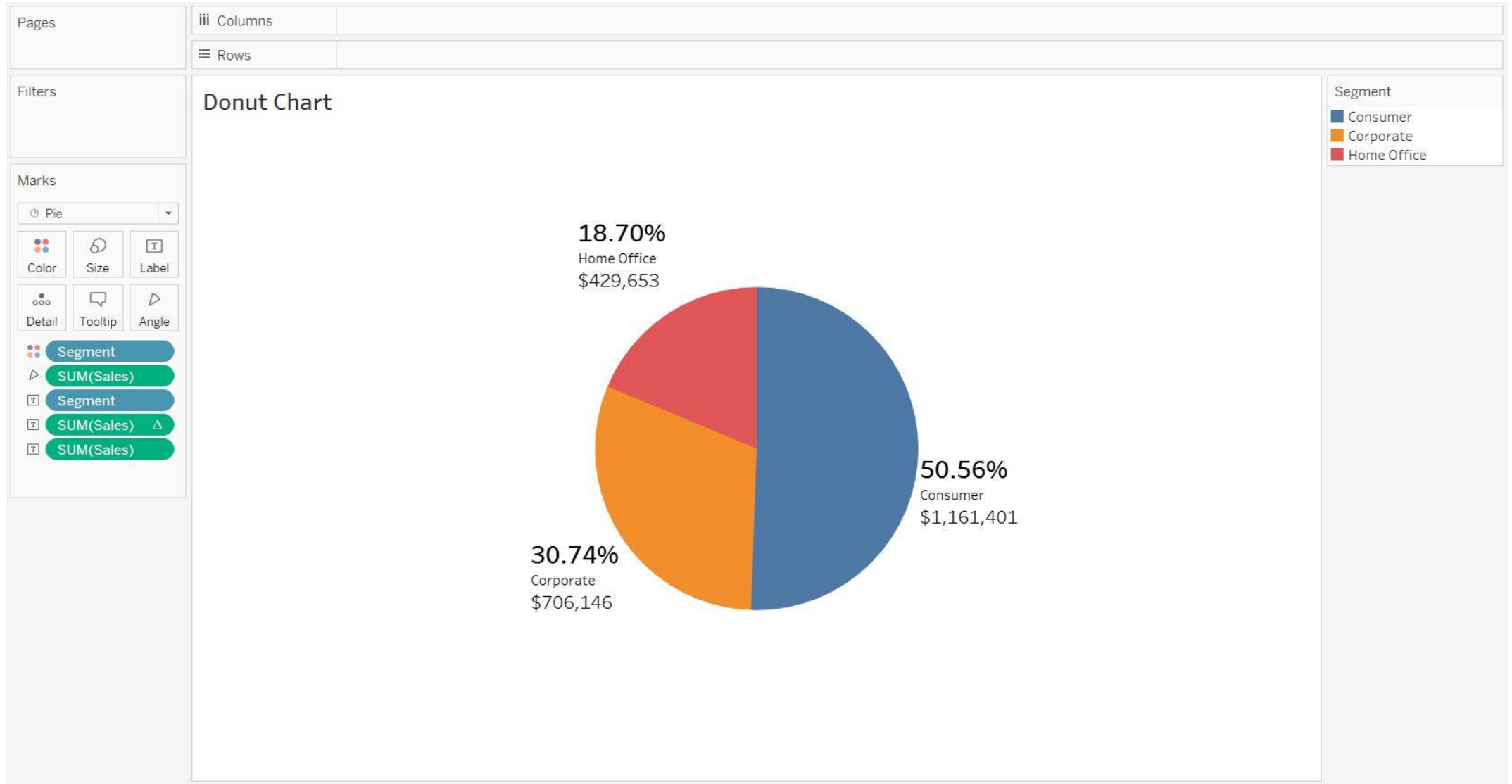
STEPS TO CREATE A PIE CHART

Step 12: The final Pie Chart Viz

STEPS TO CREATE A DONUT CHART

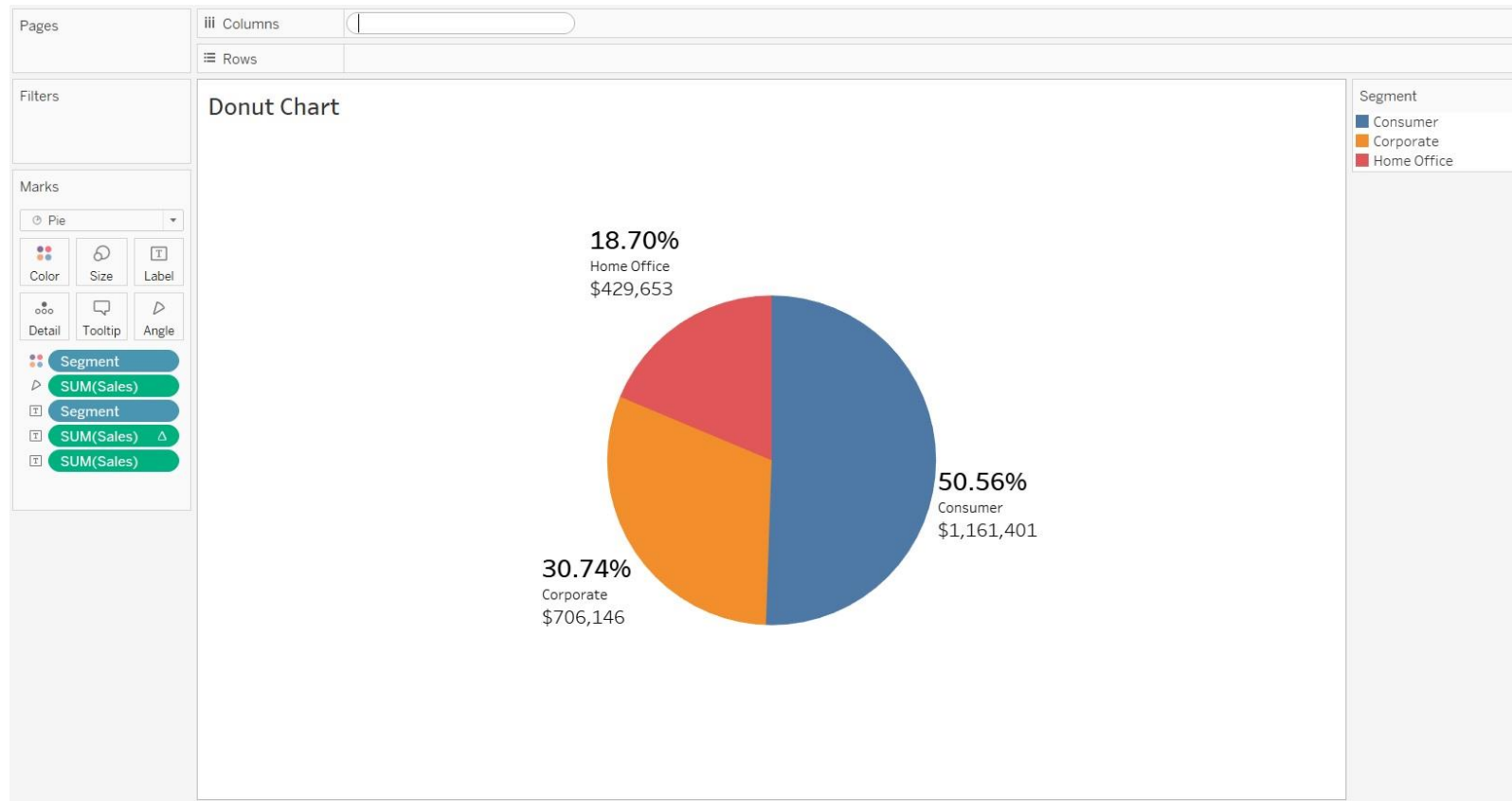**Step 1:** Let us start with the same Pie Chart that was created in the previous example

STEPS TO CREATE A DONUT CHART

Step 2: We need to create a Dual Axis Chart. Unfortunately, by default for a Pie Chart there is not axis present
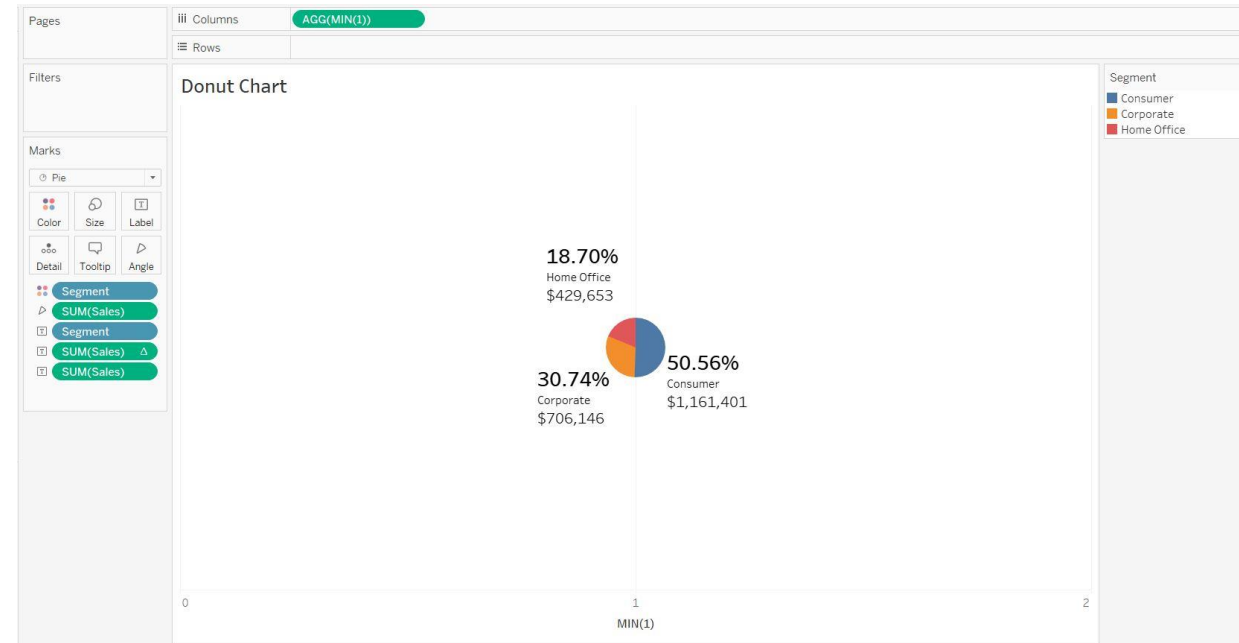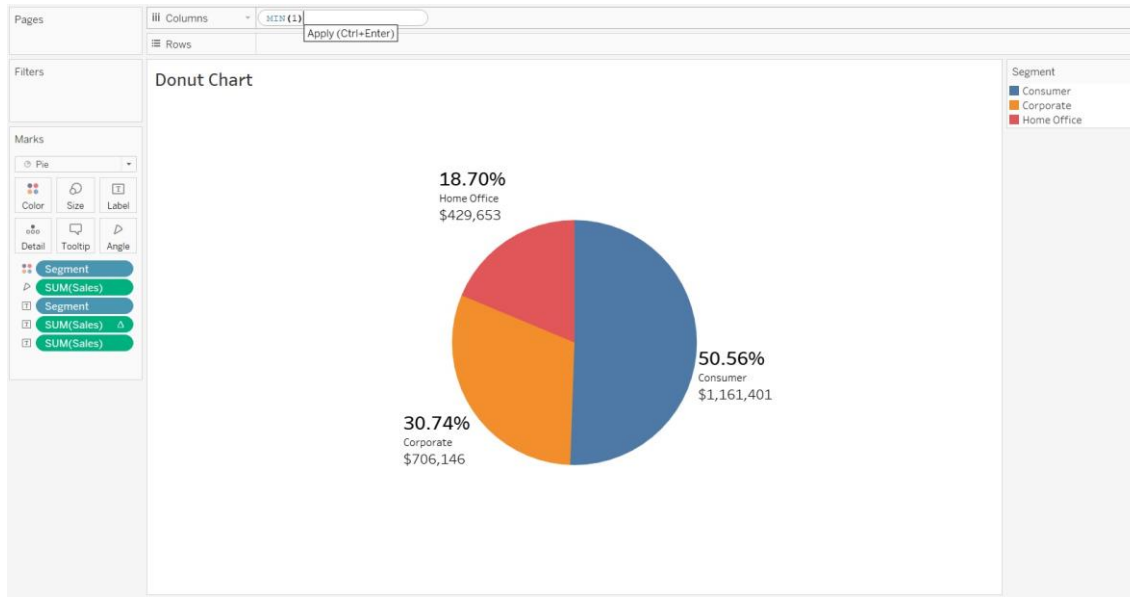Hence, we need to create an axis
Double-click on an **empty area** in **Columns** shelf
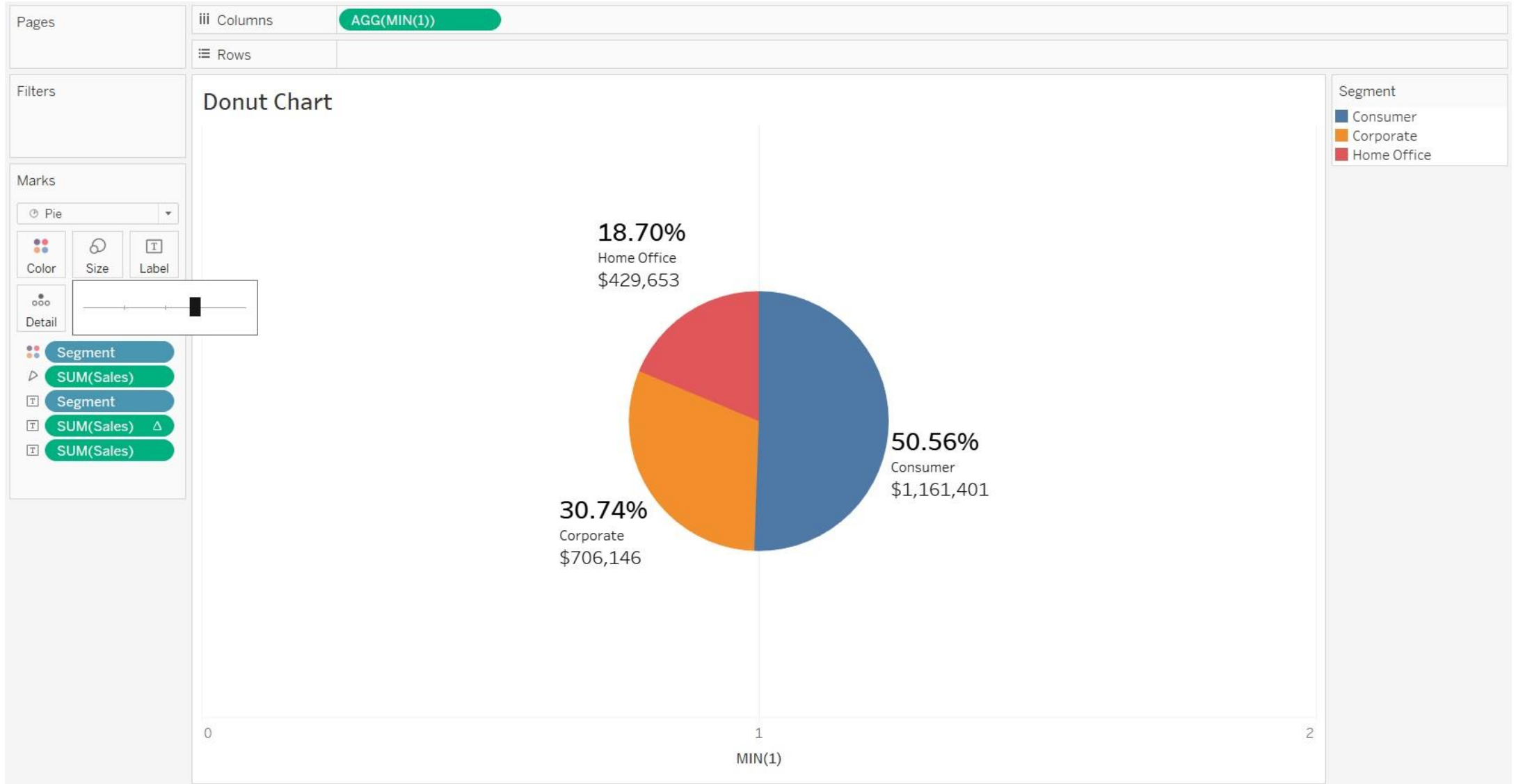
STEPS TO CREATE A DONUT CHART

Step 3: Enter **MIN(1)**

Since this is a continuous field, it will create an axis below the Pie Chart
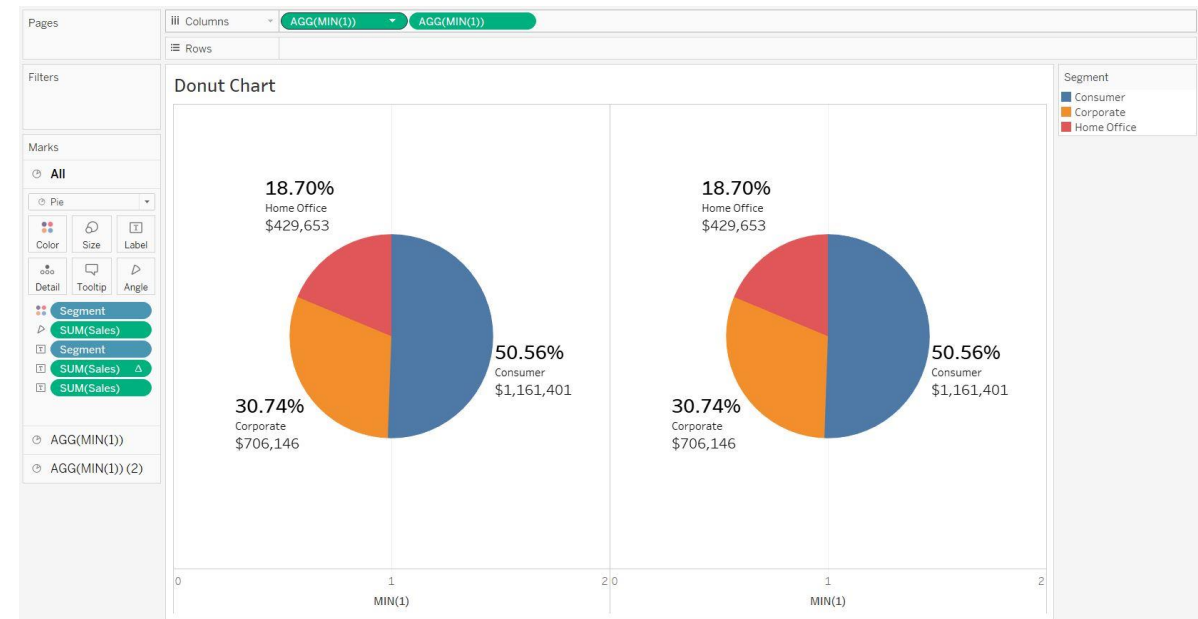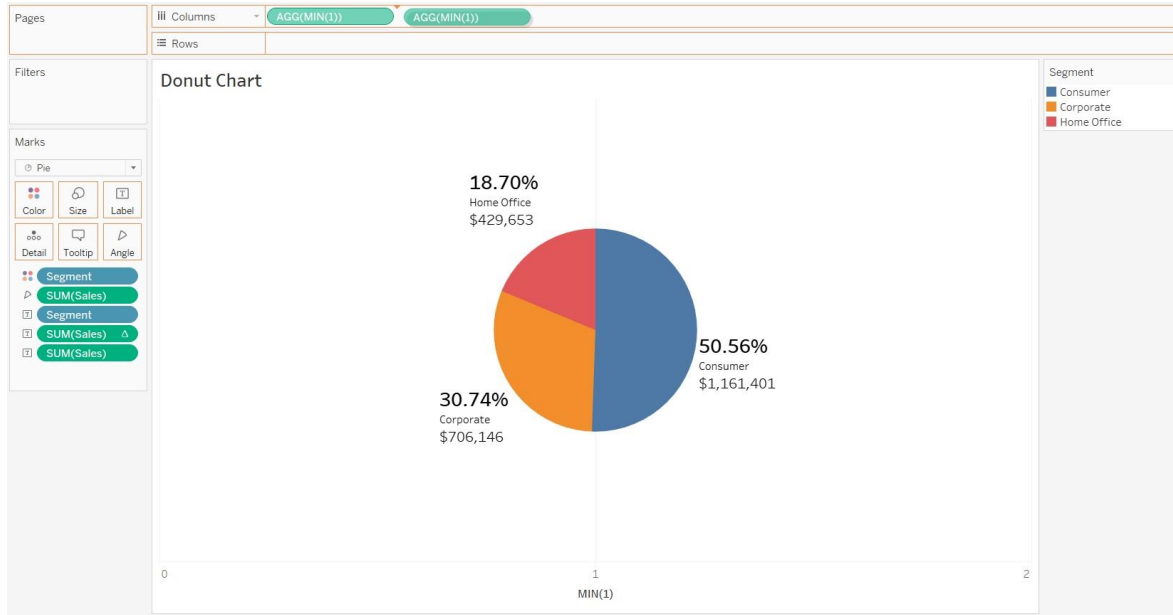
STEPS TO CREATE A DONUT CHART

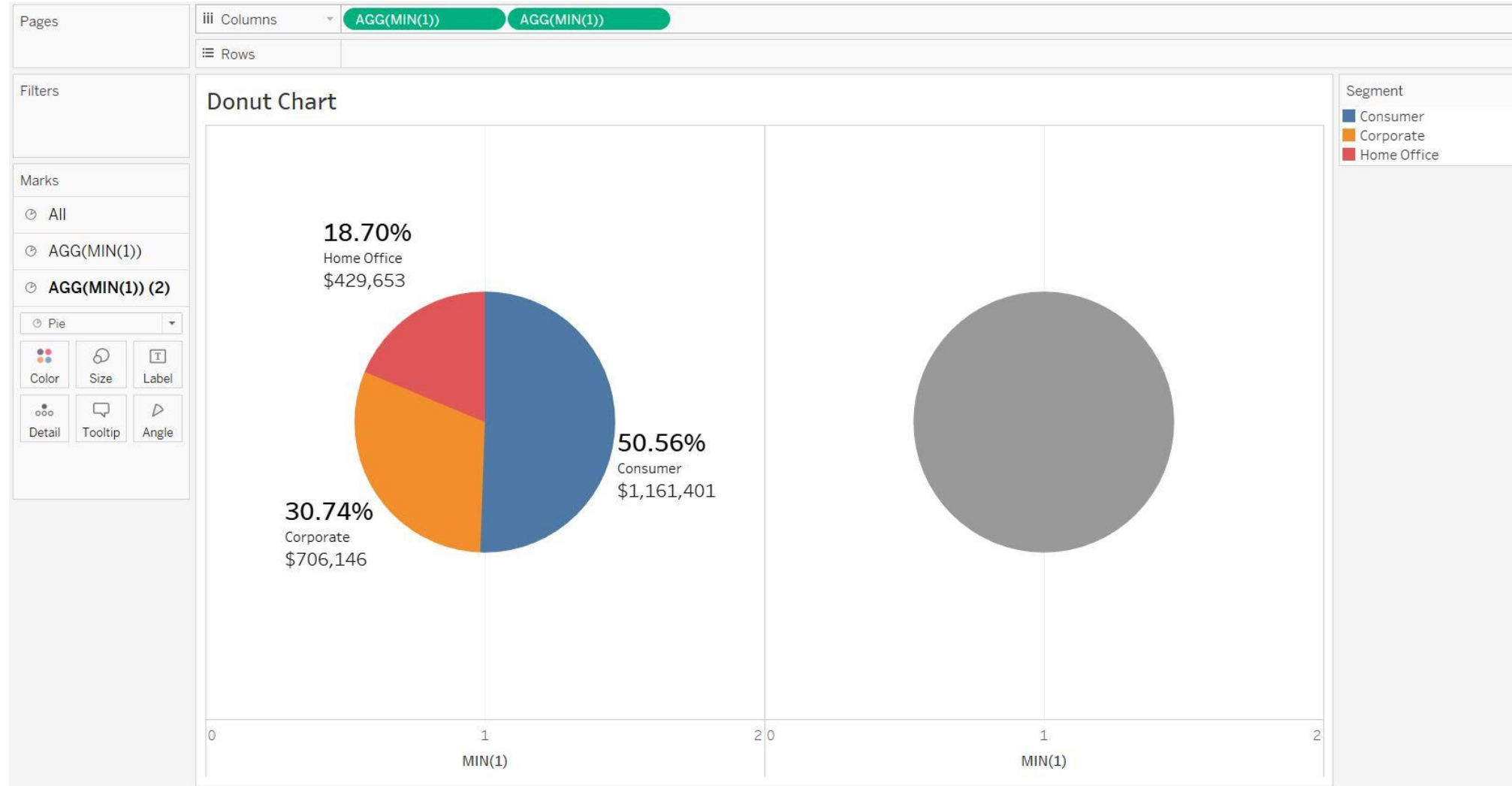**Step 4:** Increase the size by clicking on slider

STEPS TO CREATE A DONUT CHART

Step 5: Duplicate the axis. Press Ctrl and drag the MIN(1) to the right side in Columns shelf
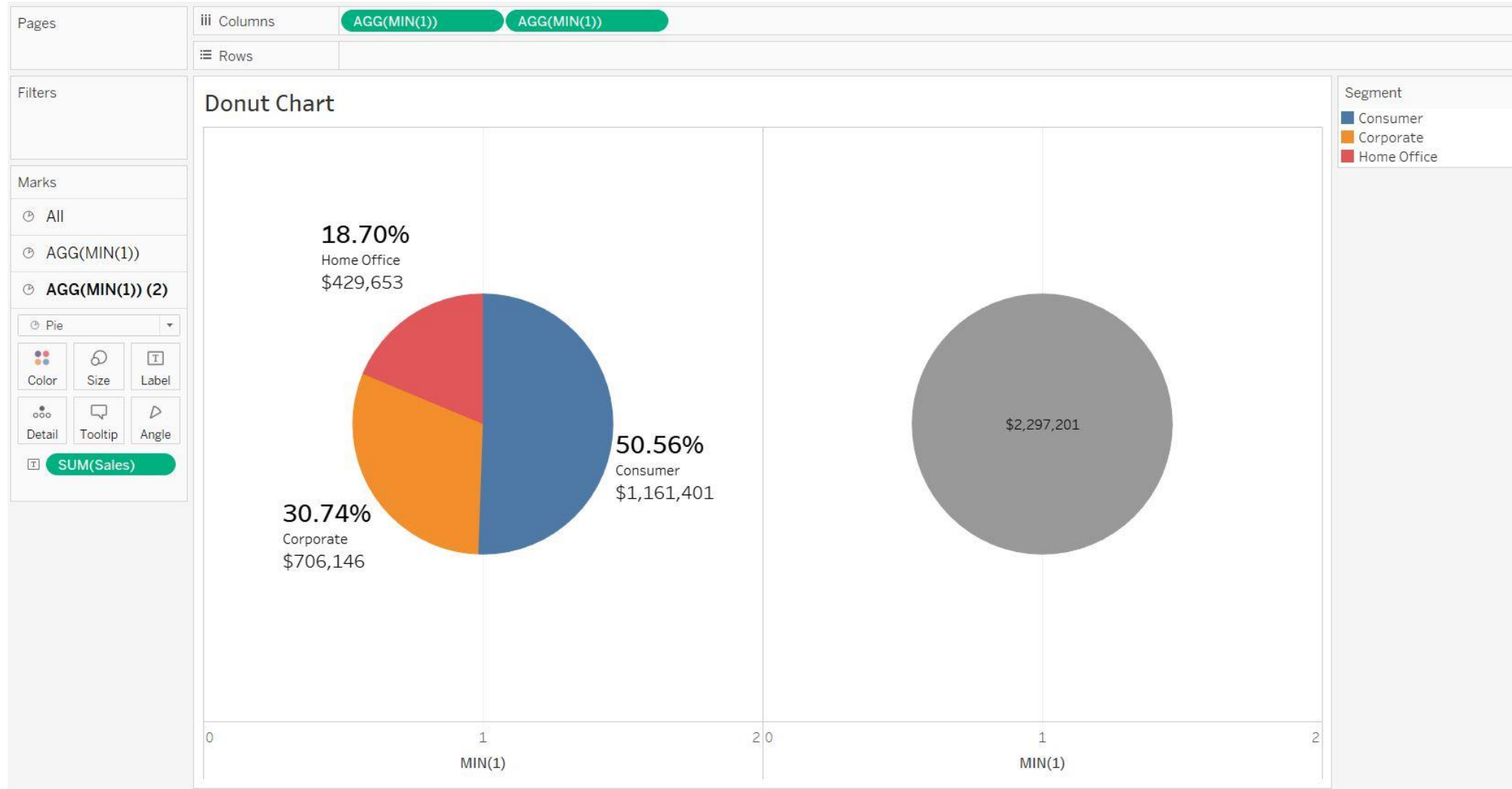
STEPS TO CREATE A DONUT CHART

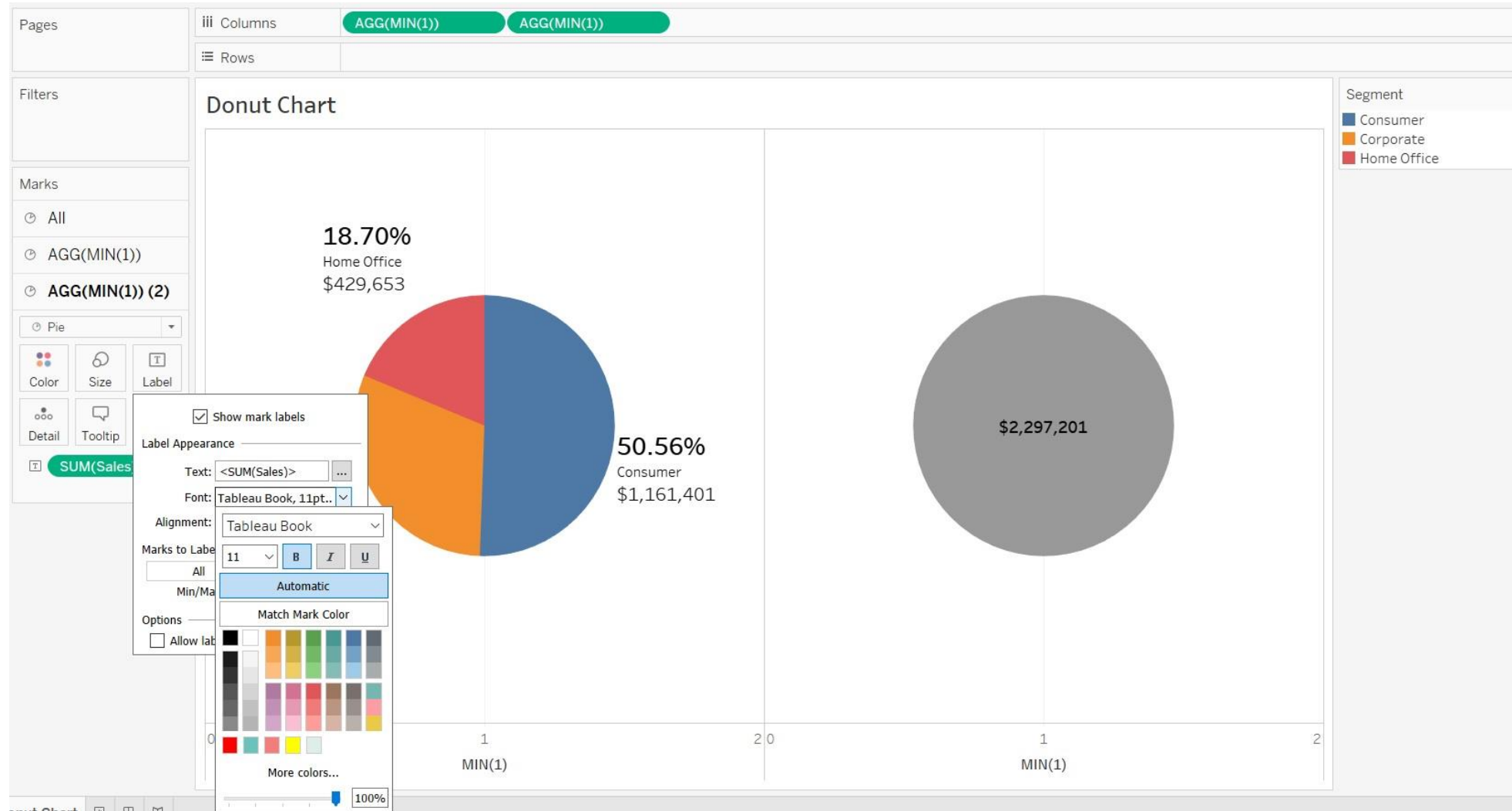**Step 6:** Remove the marks w.r.t slices from the 2nd marks card

STEPS TO CREATE A DONUT CHART

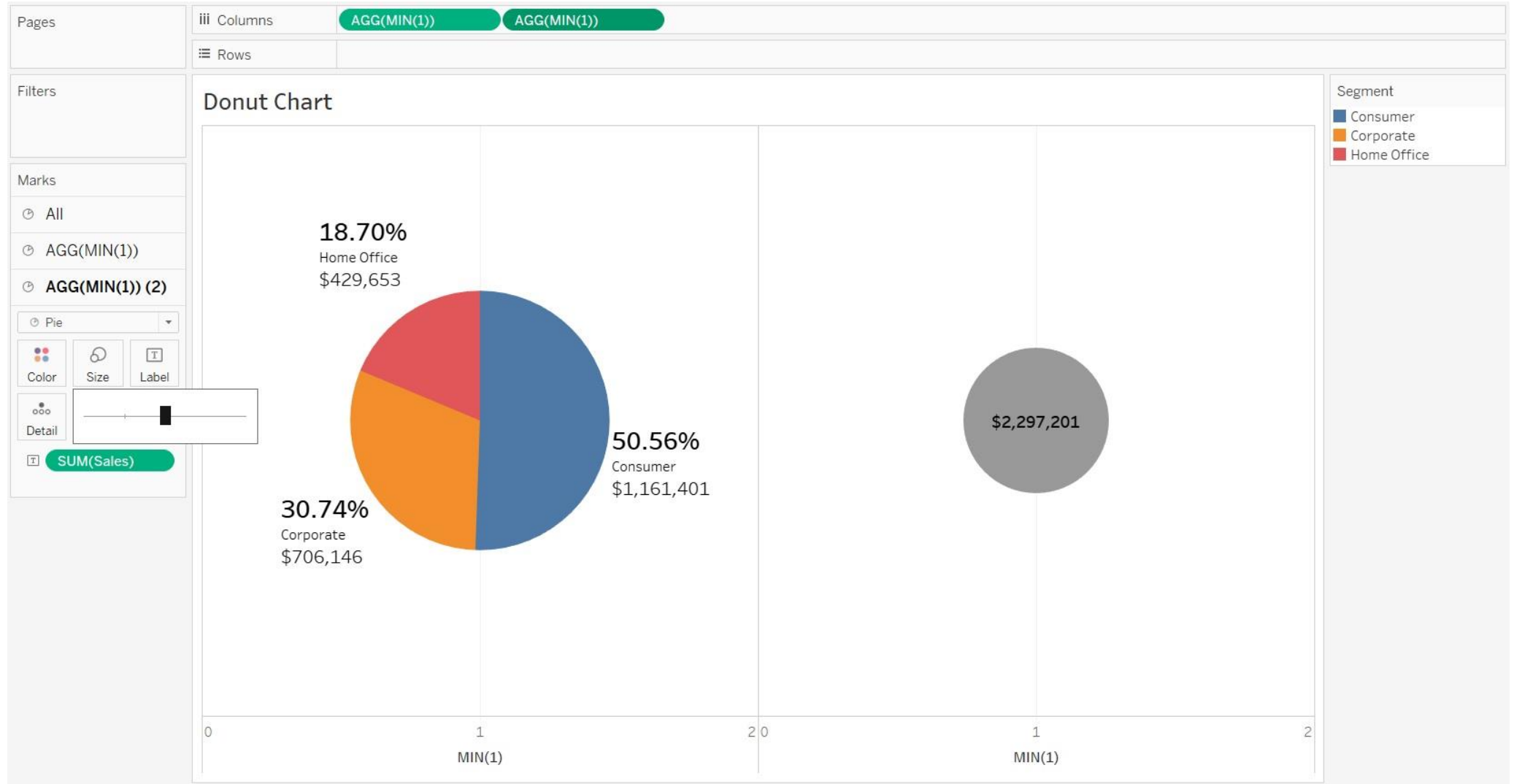**Step 7:** Drag the **Sales** to **Label** on the **Marks** card

STEPS TO CREATE A DONUT CHART
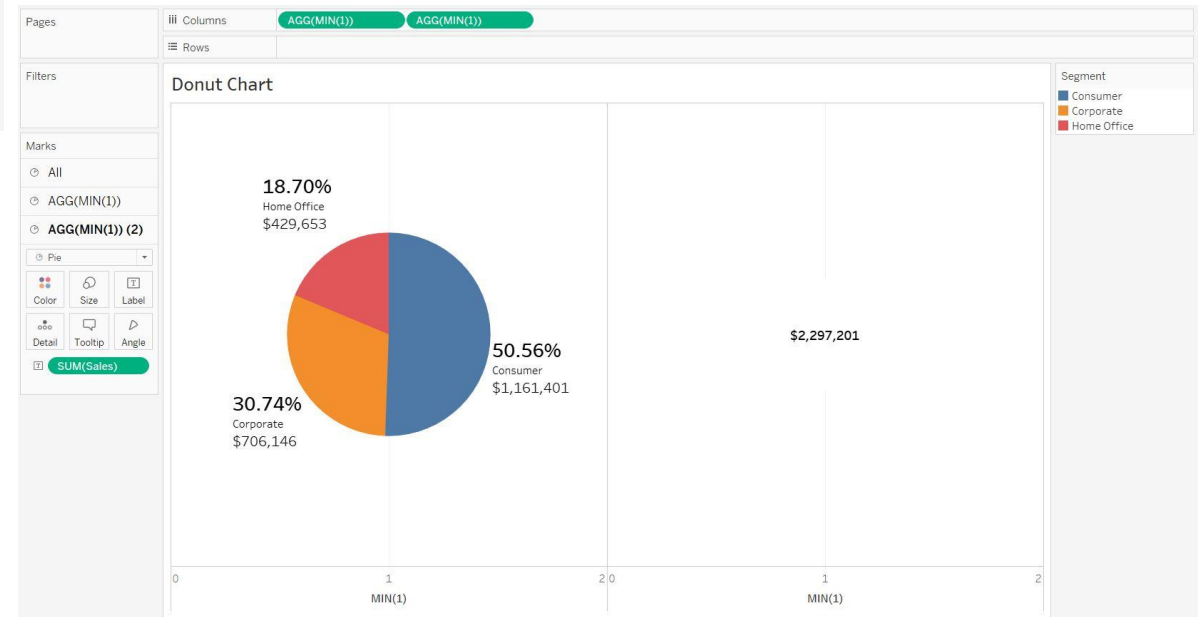
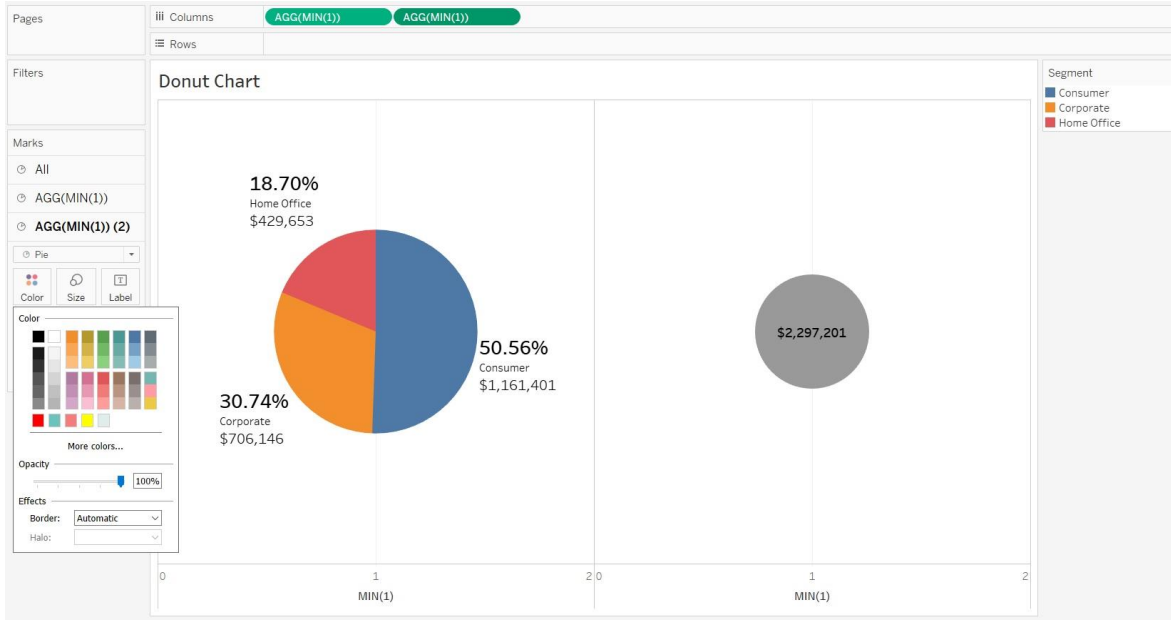**Step 8:** Edit the text of Label

STEPS TO CREATE A DONUT CHART

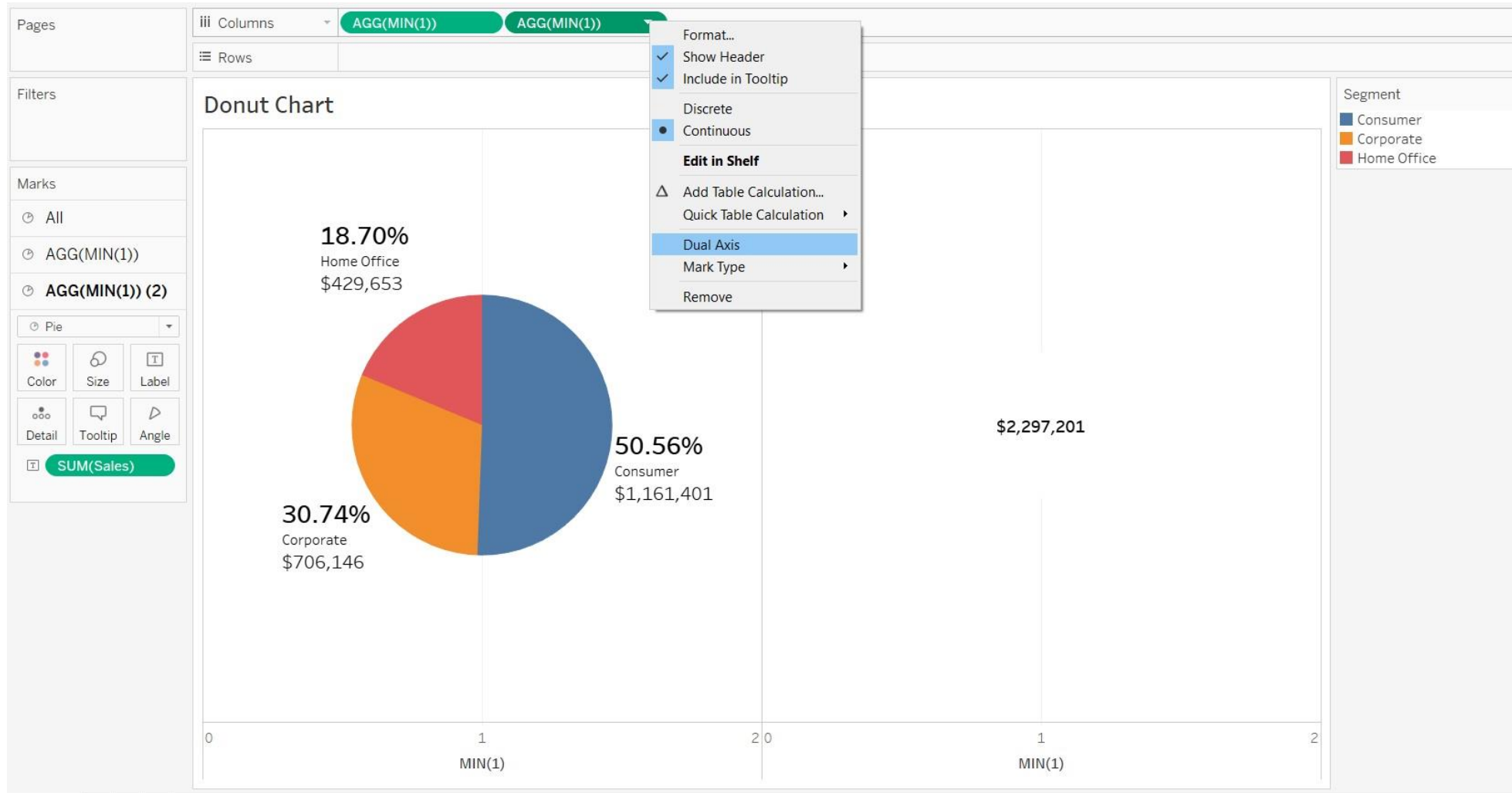**Step 9:** Reduce the size of 2nd Circle

STEPS TO CREATE A DONUT CHART

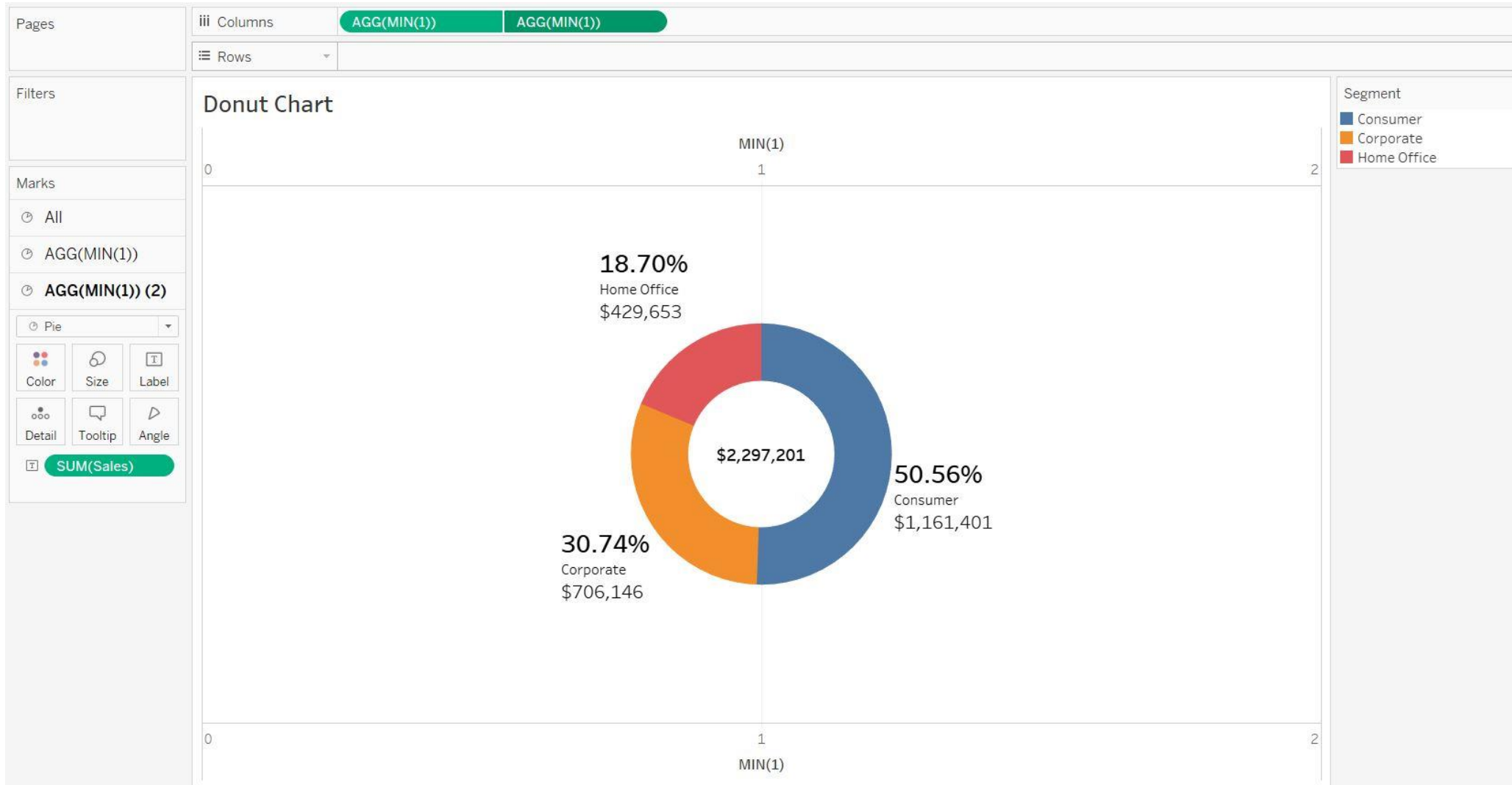**Step 10:** Change the Color on the Marks card to White

STEPS TO CREATE A DONUT CHART

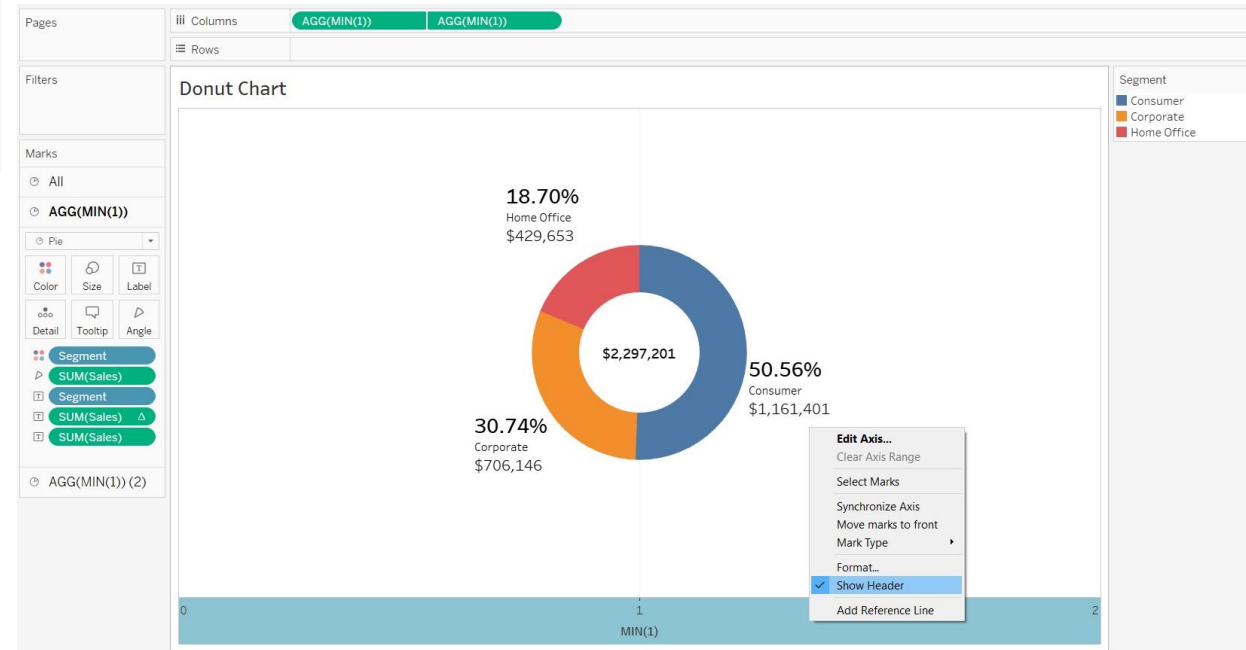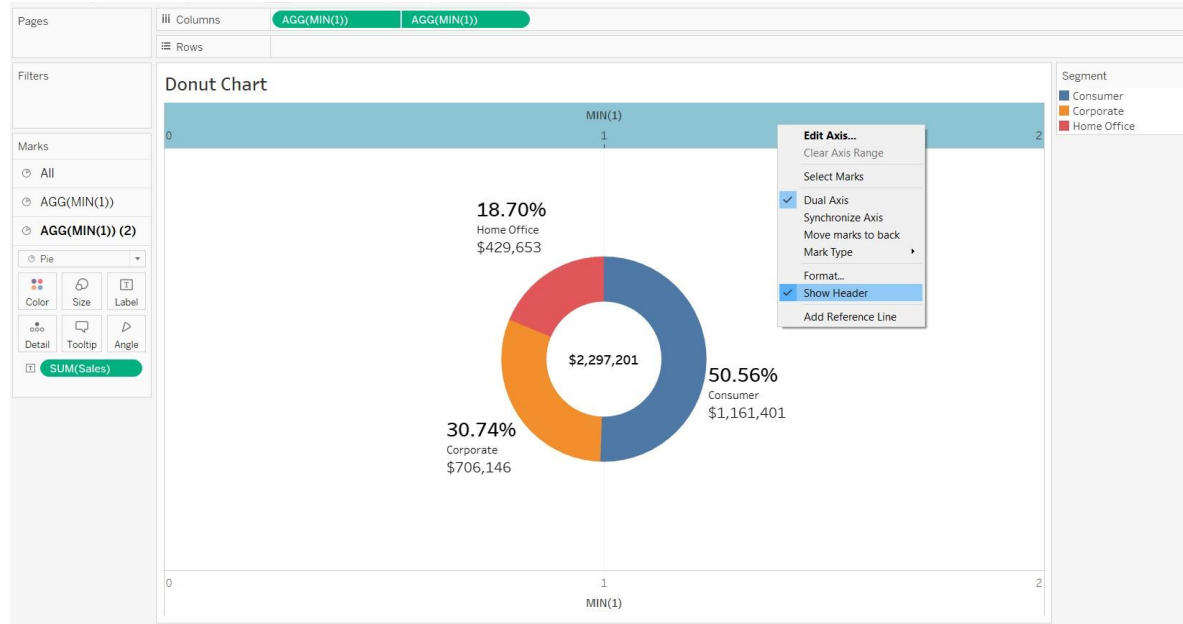## Step 11: Right-click the 2nd axis field AGG(MIN(1)) and select Dual Axis

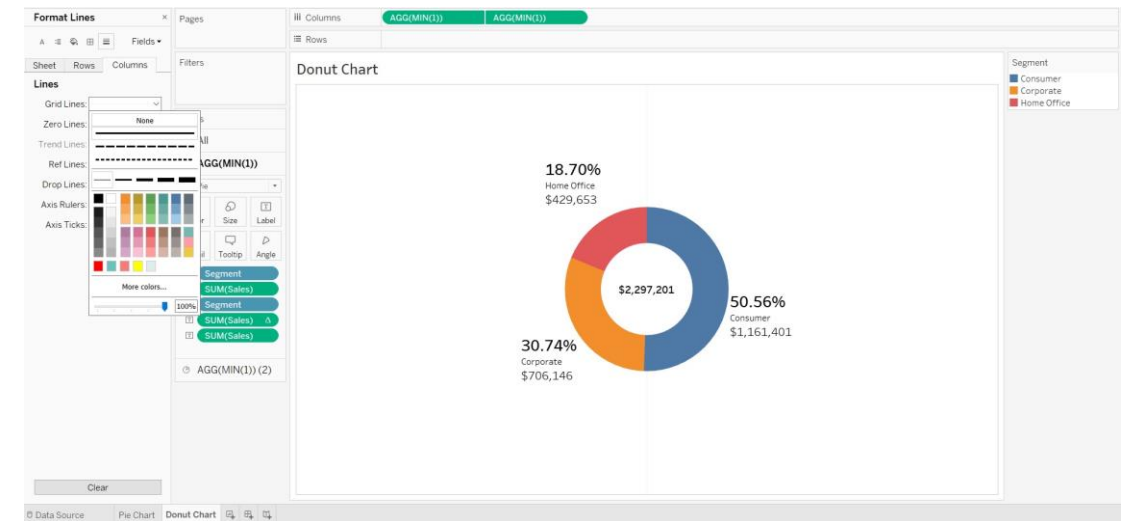# STEPS TO CREATE A DONUT CHART
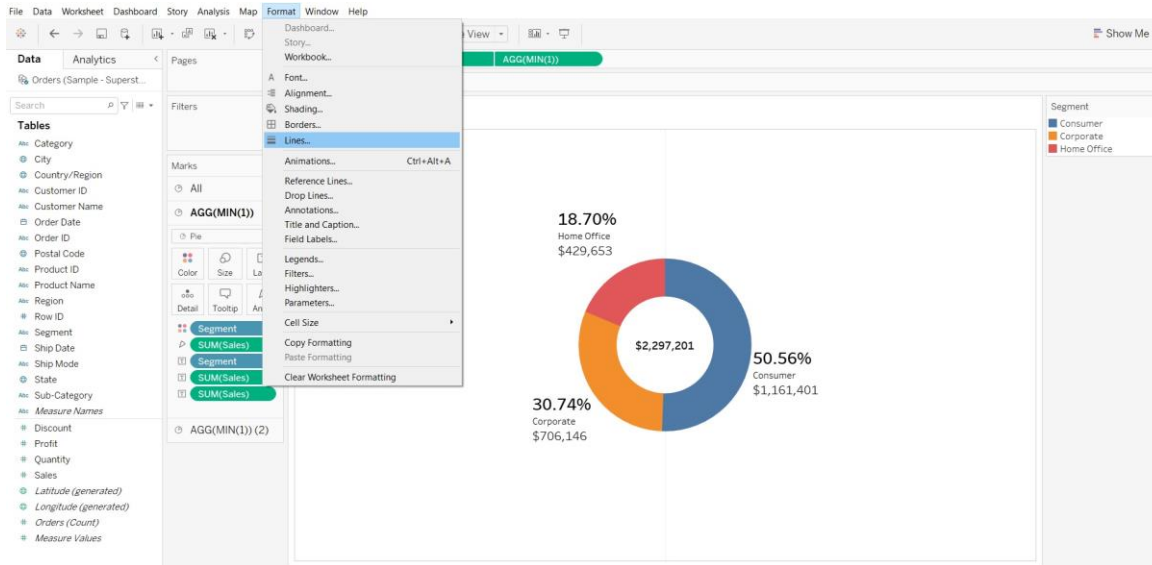
Step 12: Now we get the Donut Chart

STEPS TO CREATE A DONUT CHART

Step 13: Remove the Headers of the Axis fields

STEPS TO CREATE A DONUT CHART

Step 14: Remove the Grid Lines for Columns
Format > Lines > Grid Line > None

STEPS TO CREATE A DONUT CHART

Step 15: The final Donut Chart Viz