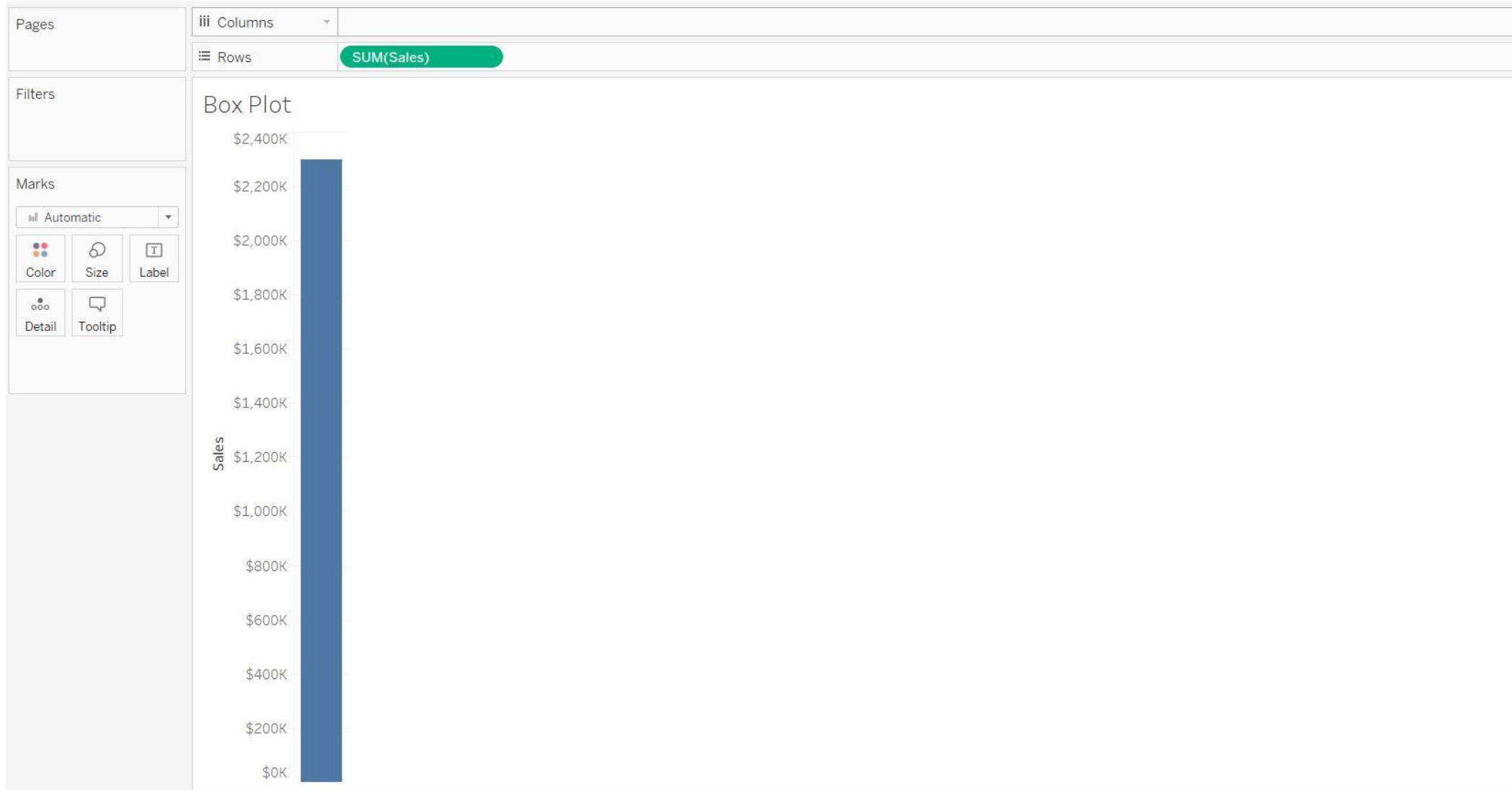# STEPS FOR CREATING A BOX PLOT
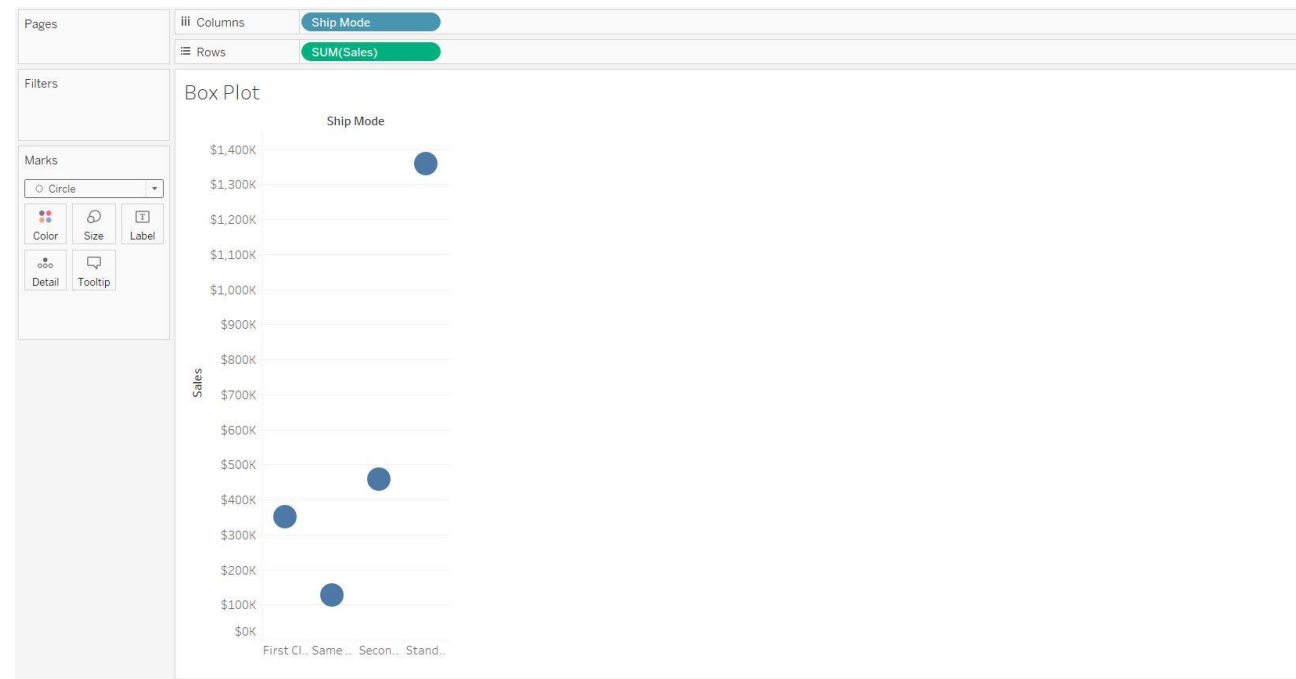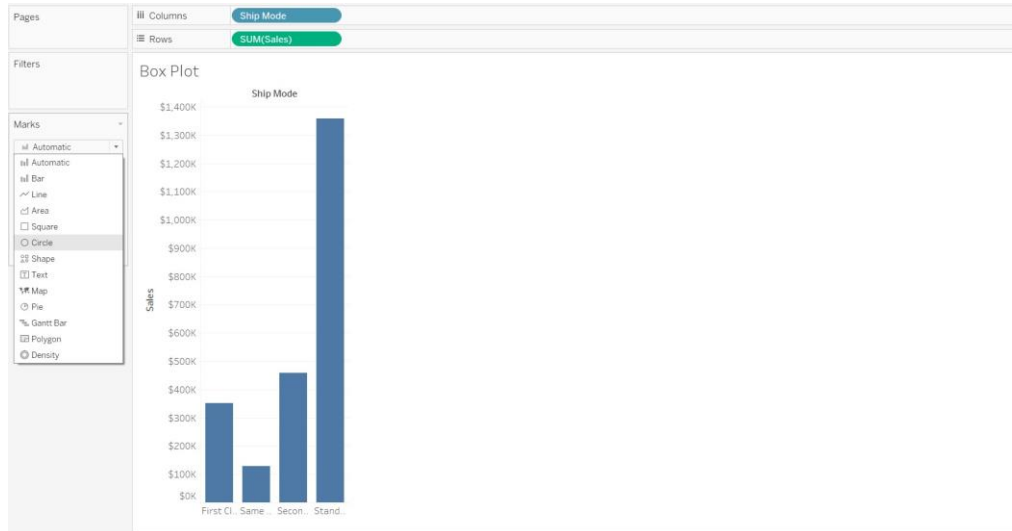
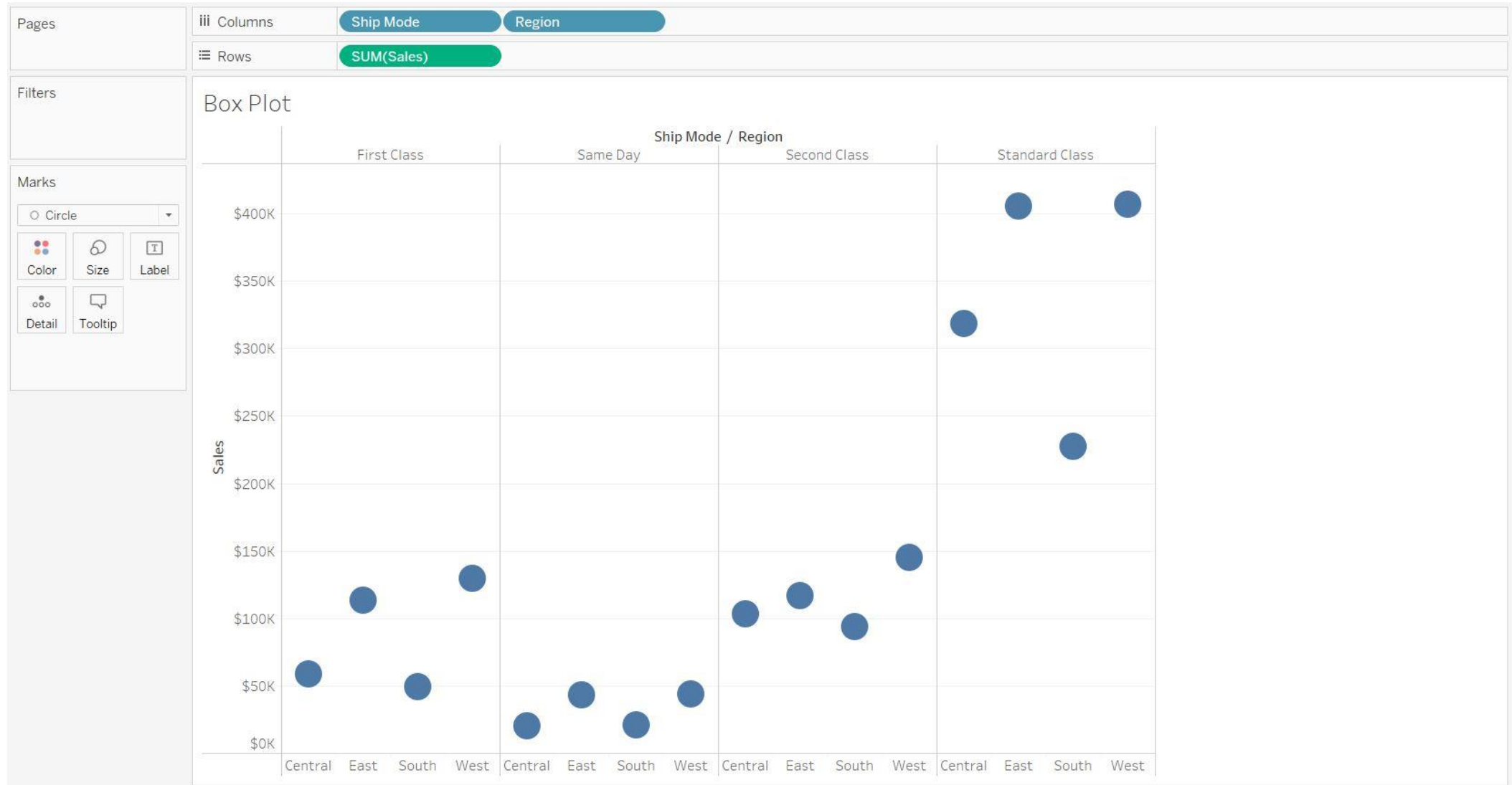**STEP 1:** Drag and drop the Measure e.g.: **Sales** to the **Rows** Shelf

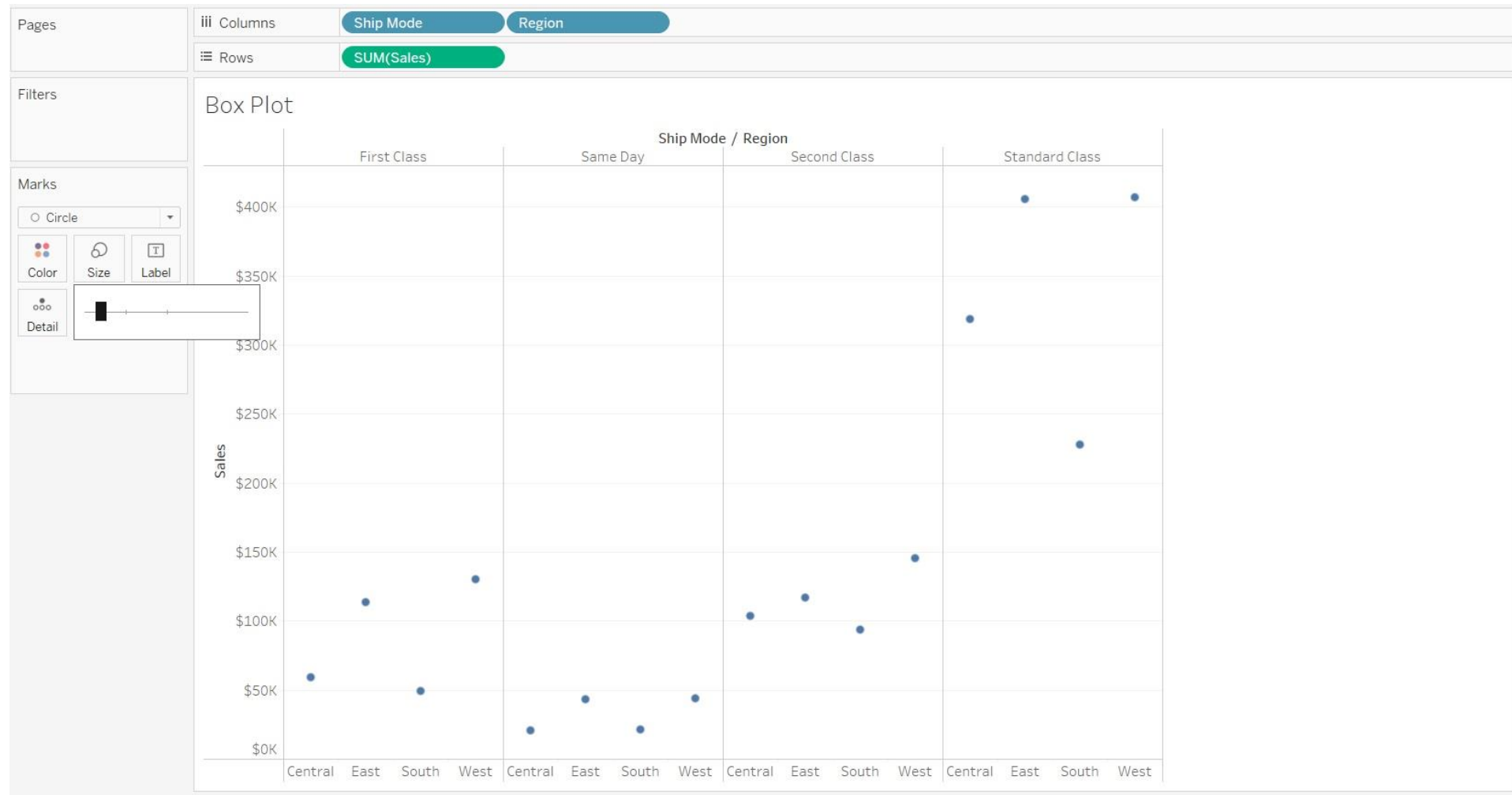# STEP 2: Drag and drop the Dimension e.g.: **Ship Mode** to the **Columns** Shelf

# STEP 3: Change the **Mark** type to **Circle** from the drop-down

**STEP 4:** If required we can further divide the view by dropping another Dimension e.g.: **Region** to the **Columns** shelf
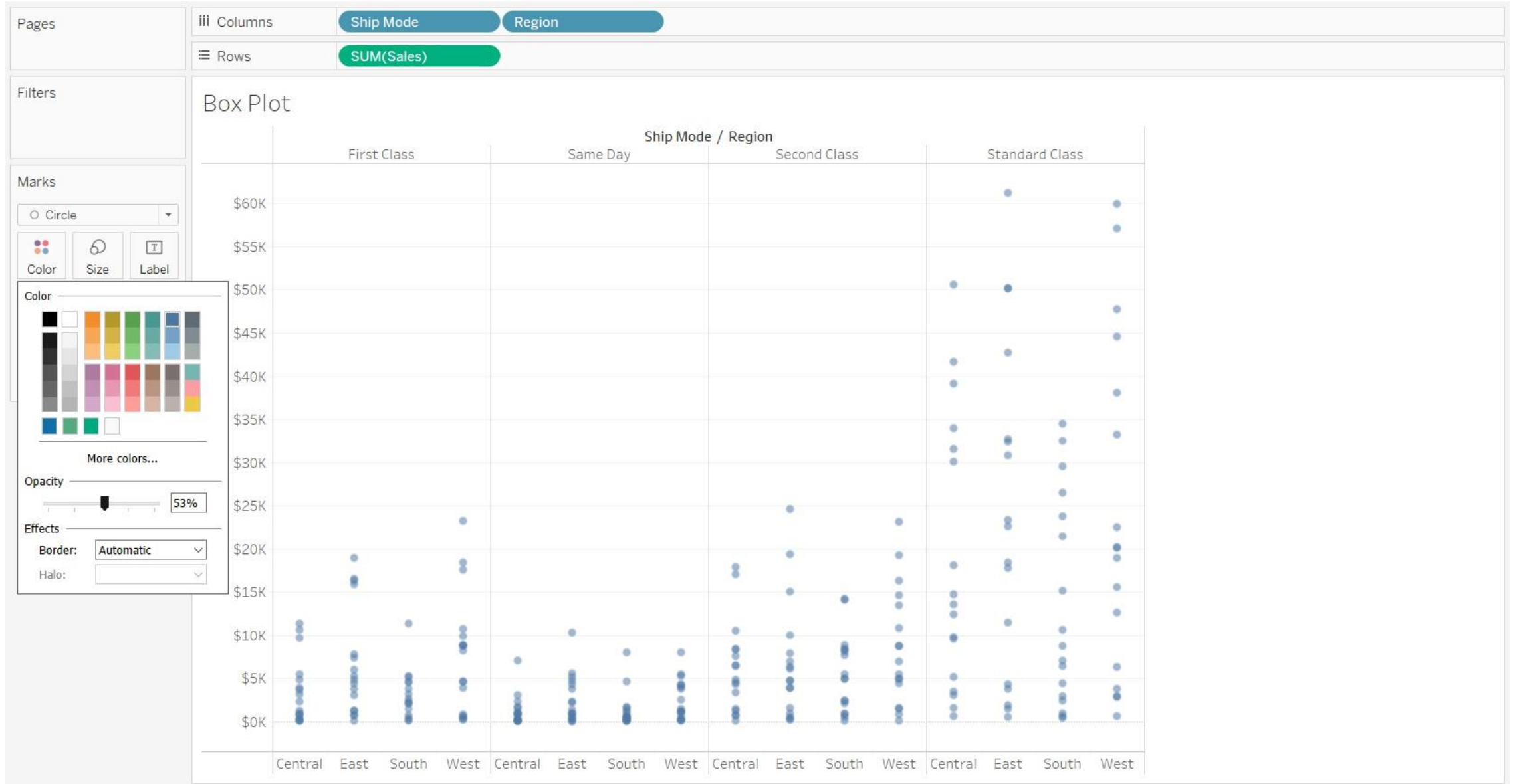
**STEP 5:** Reduce the size of circles by using the Size Slider on Marks card
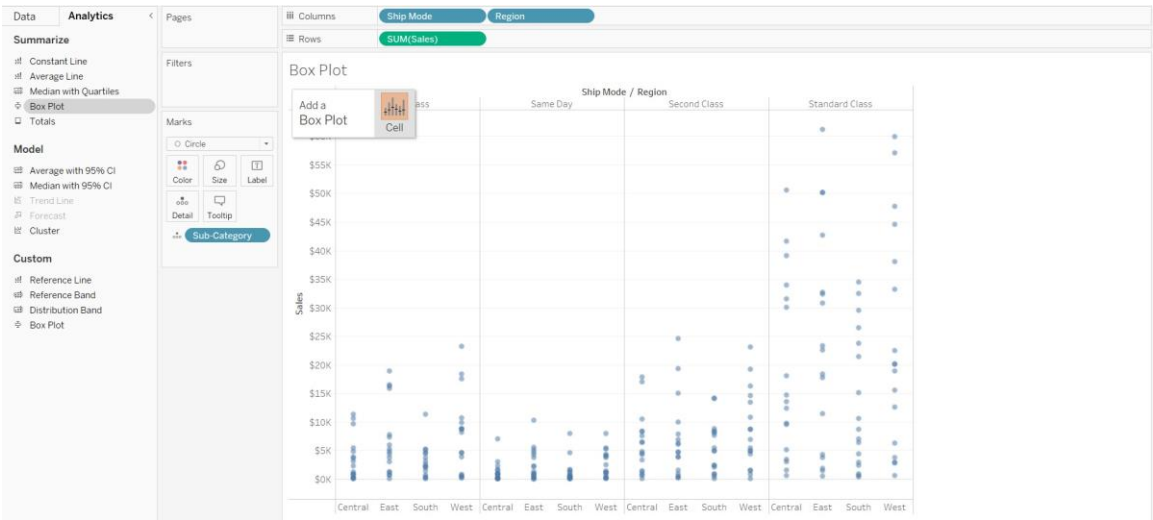
**STEP 6:** Drag and drop the 2nd Dimension e.g.: **Sub-Category** to the **Detail** on **Marks** card
So, this will provide the sub-category details for each ship mode and region
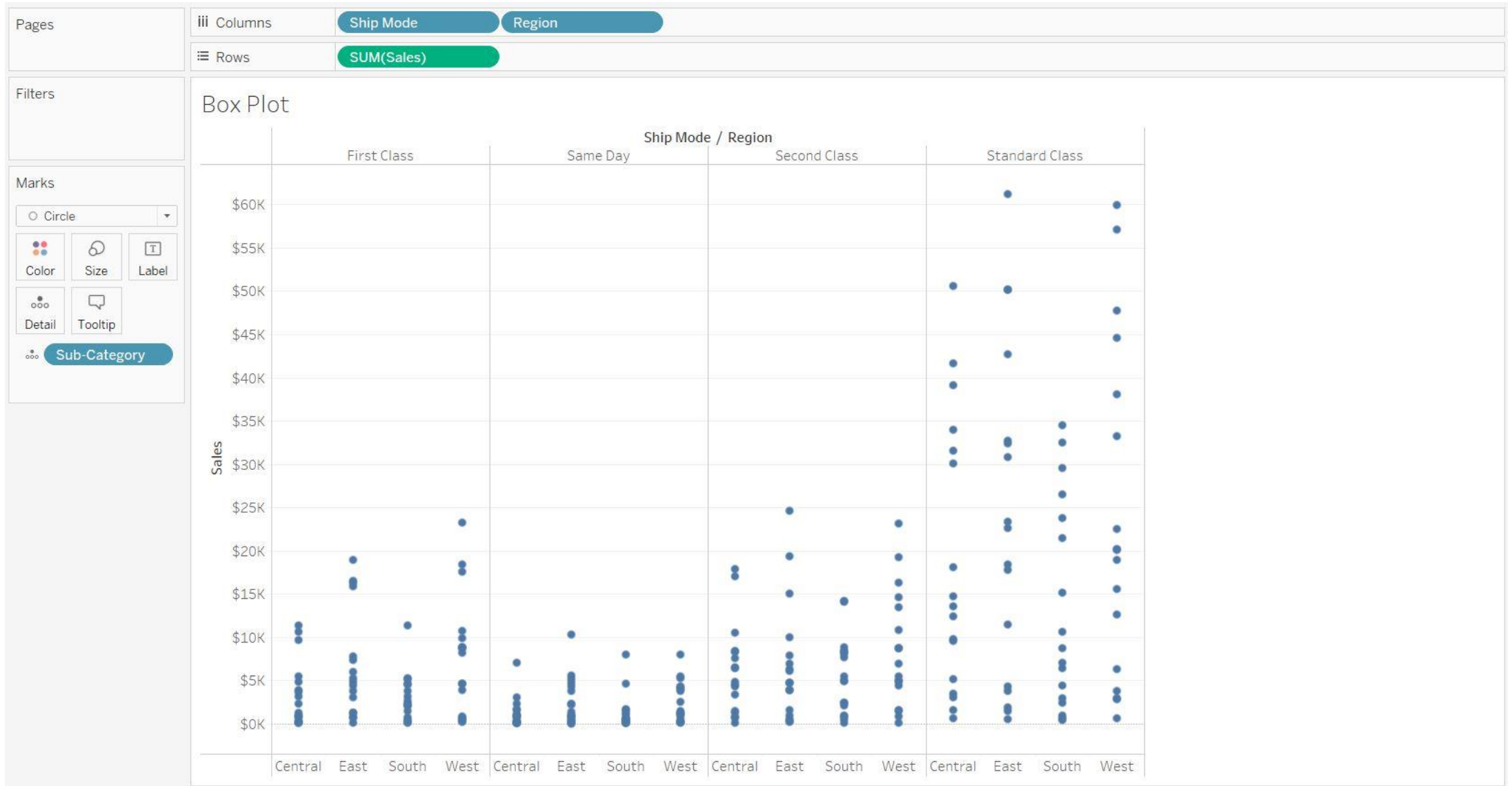
# STEP 7: Reduce the **opacity** to observe the concentration of data points

# STEP 8: From the **Analytics** Pane drag and drop the **Box Plot** to Cell option within the view

# STEP 9: Right-click on any box and select "**Edit**"

**STEP 10:** "**Edit Reference Line, Band, or Box**" dialog box will appear

**STEP 11:** In the **Fill** drop-down list, select an interesting color scheme

**STEP 12:** If required we can change the **Whiskers extend to** option from the drop-down list to "**Maximum extent of the data**"
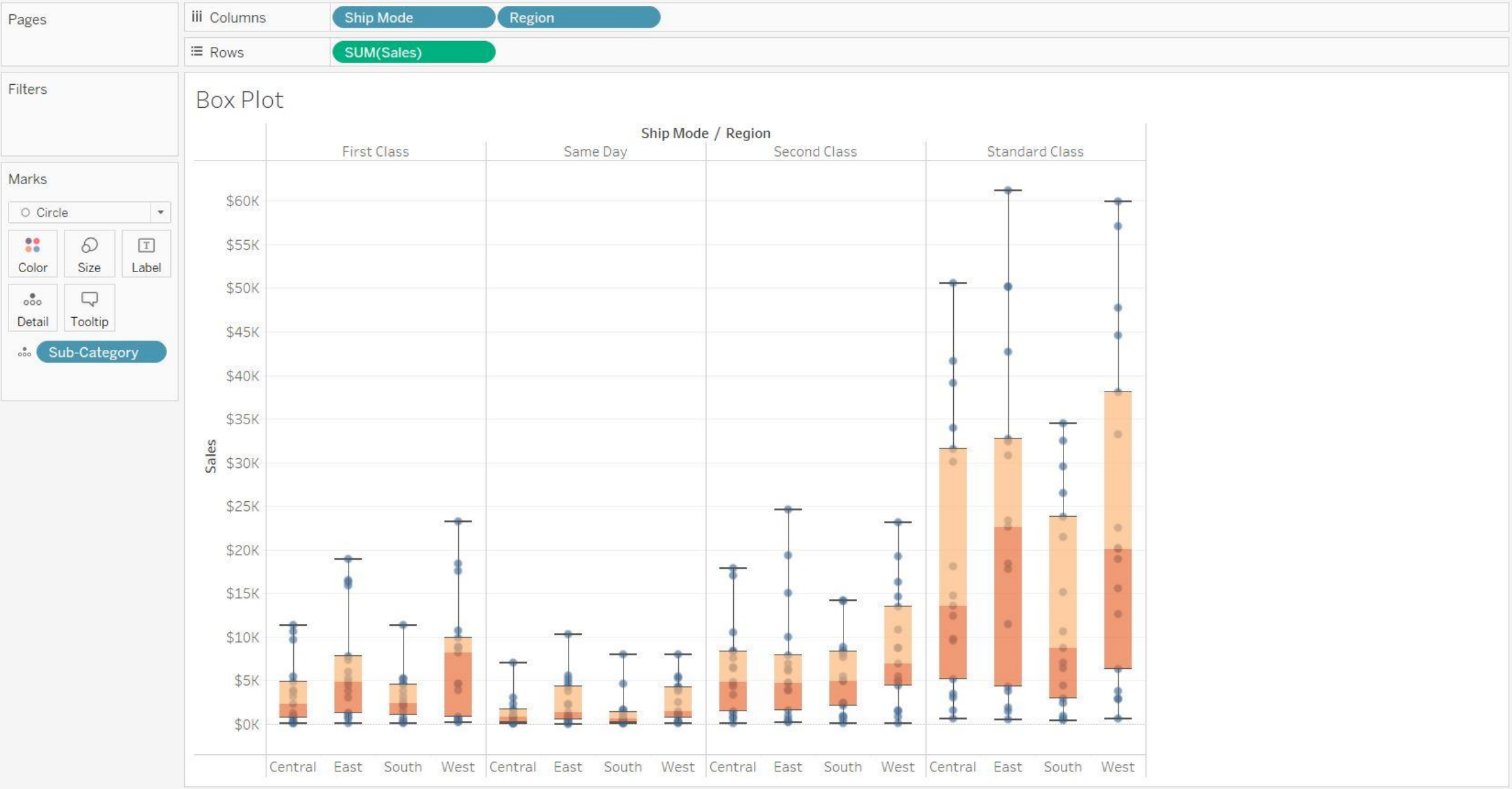
# STEP 13: Now we see that there are no outliers for any of the box plots

**STEP 14:** Revert to the default option for **Whiskers extend to** i.e., "**Data within 1.5 times the IQR**"
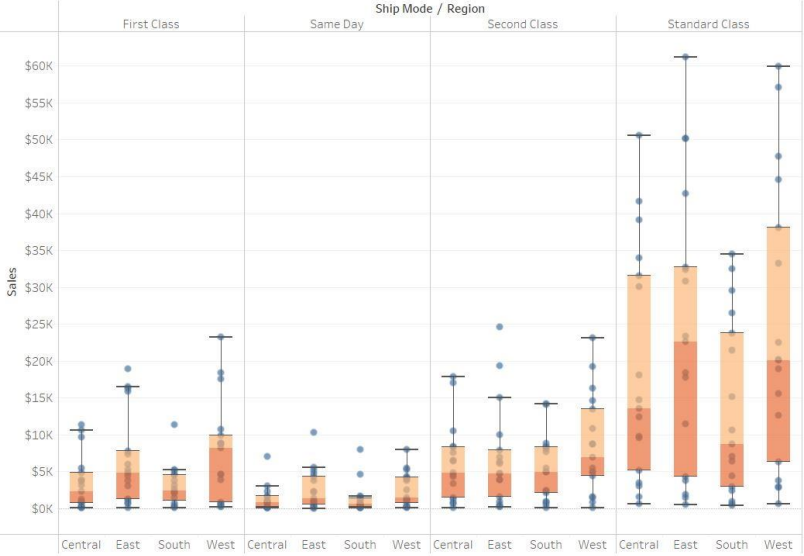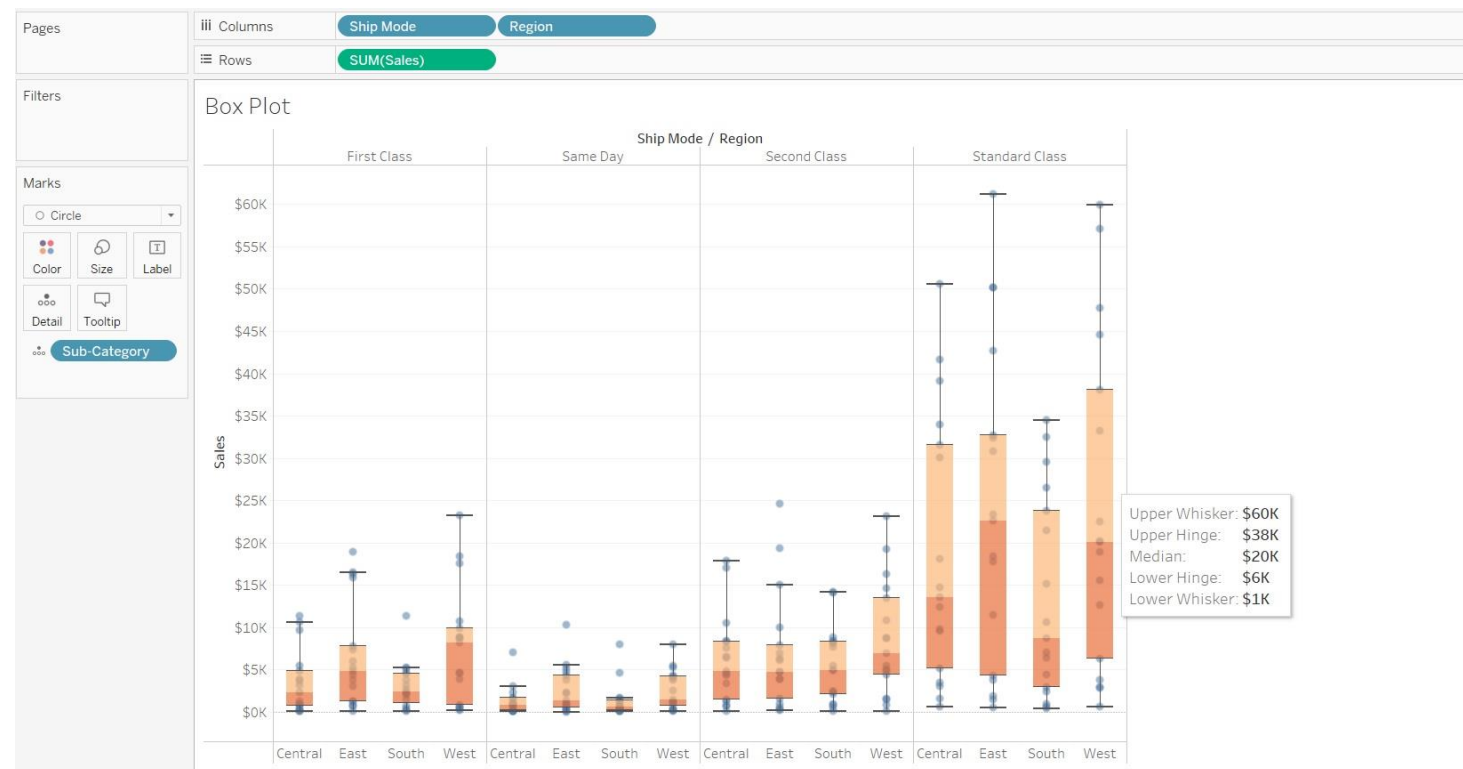
**STEP 15:** Now the Box Plot view is complete
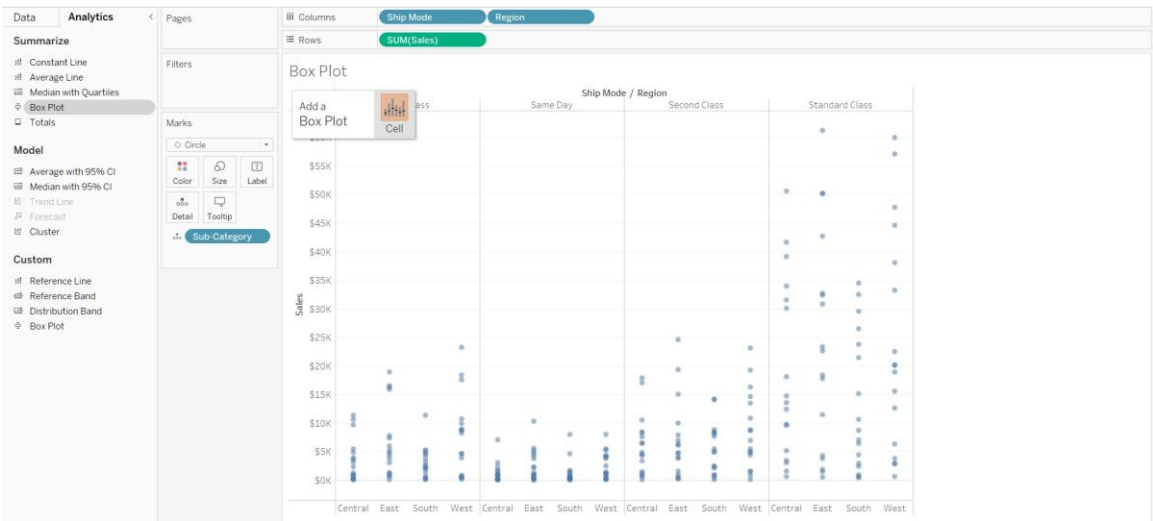
If we hover over any box additional details will be displayed e.g.: Upper Whisker, Upper Hinge etc.

For this example, we observe that the interquartile range (from the 25th percentile to the 75th percentile) for sales was greatest in Standard Class Ship Mode for the West Region
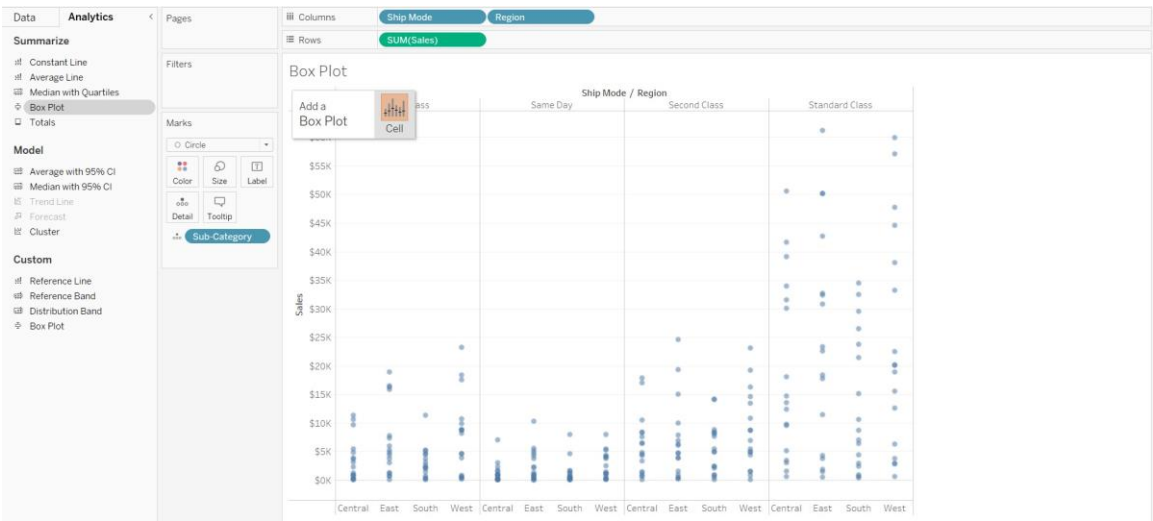
We also observe that there are outliers in East Region for the First Class, Same Day and Second Class Ship Mode

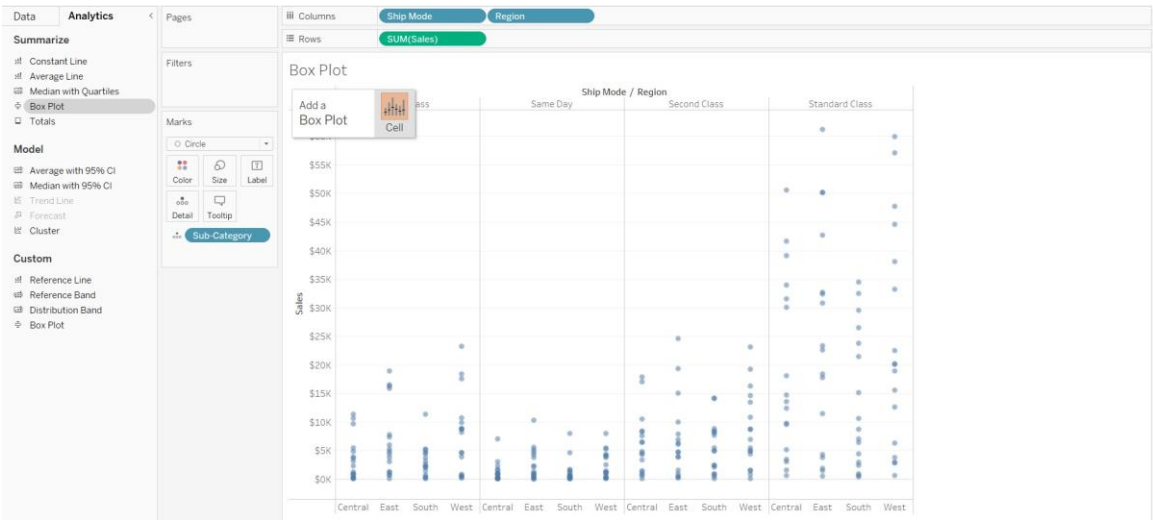# STEP 8: From the Analytics Pane drag and drop the Box Plot to Cell option within the view

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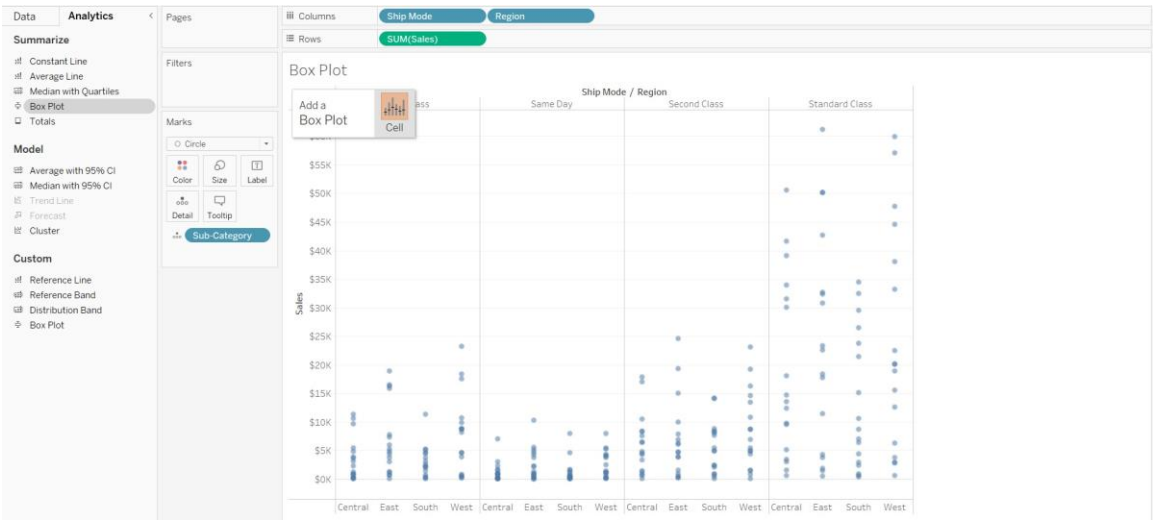
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