Module 6: Level Of Detail (LOD) Expressions Tableau

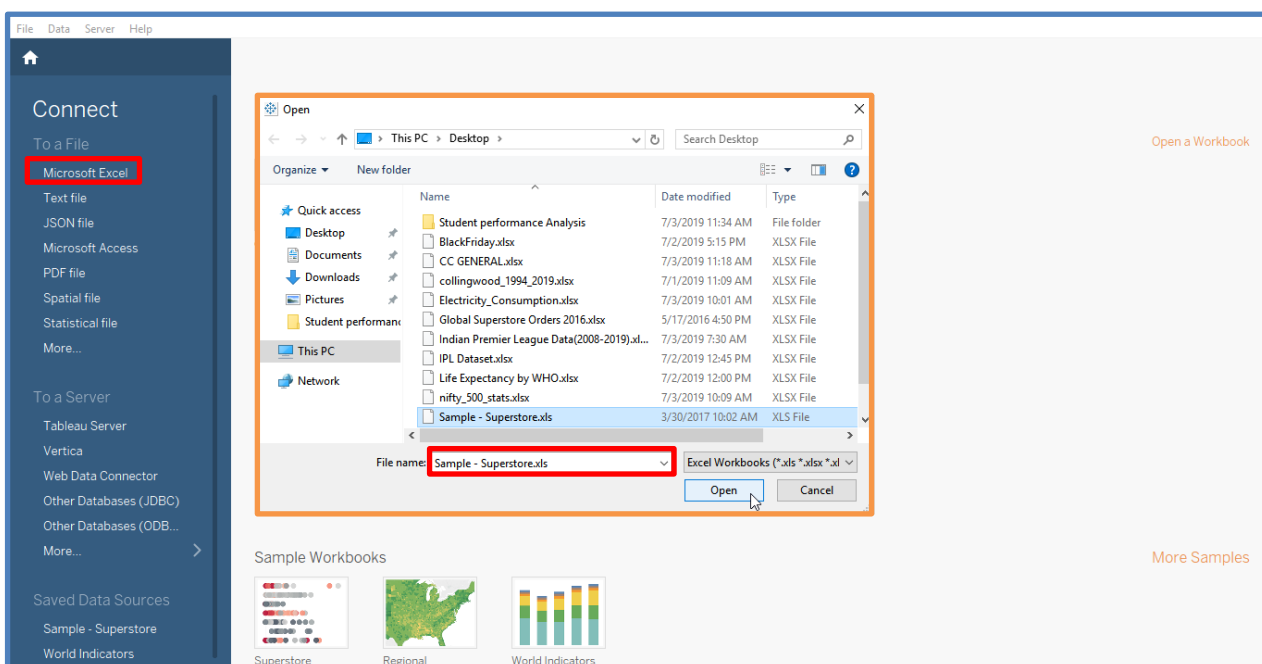## Use Case- III

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Use Case III: Comparative Sales

Using "Sample Superstore Dataset", create a report which compares the sales of all the regions against a selected region.
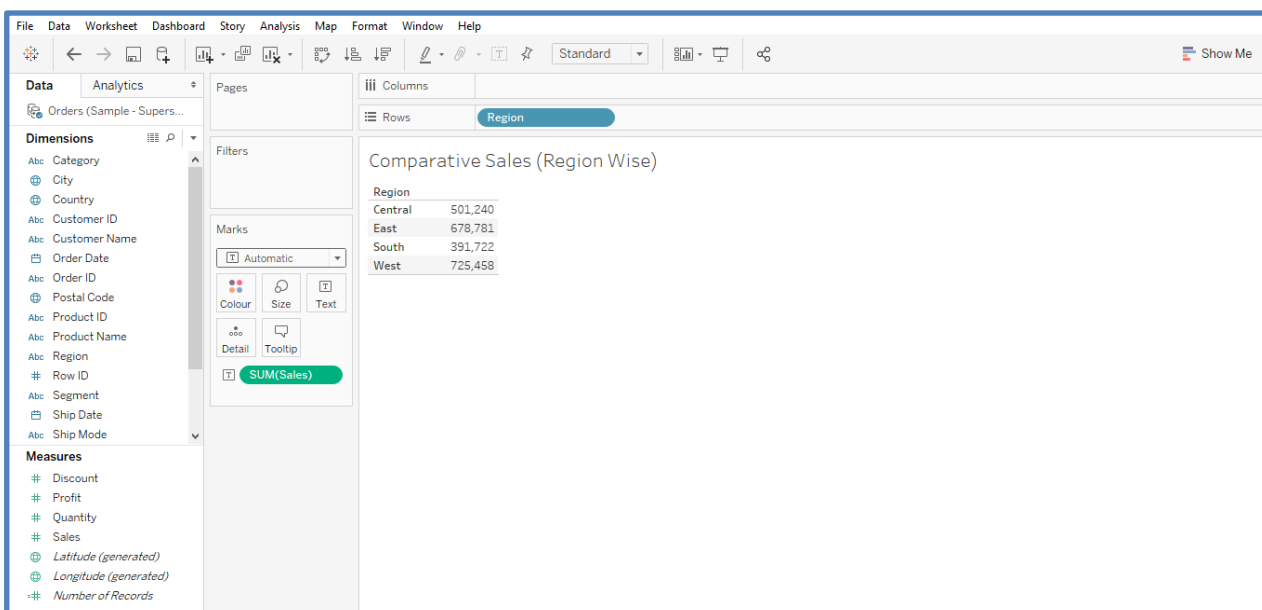
Refer the dataset: Sample Superstore.xls

Use Case III – Solution

Step 1: Click on Connect → Microsoft Excel → Sample Superstore Dataset → Sheet1

Step 2: Rename Sheet1 to Comapartive Sales. Drag Sales and Region to Column and Row respetively.
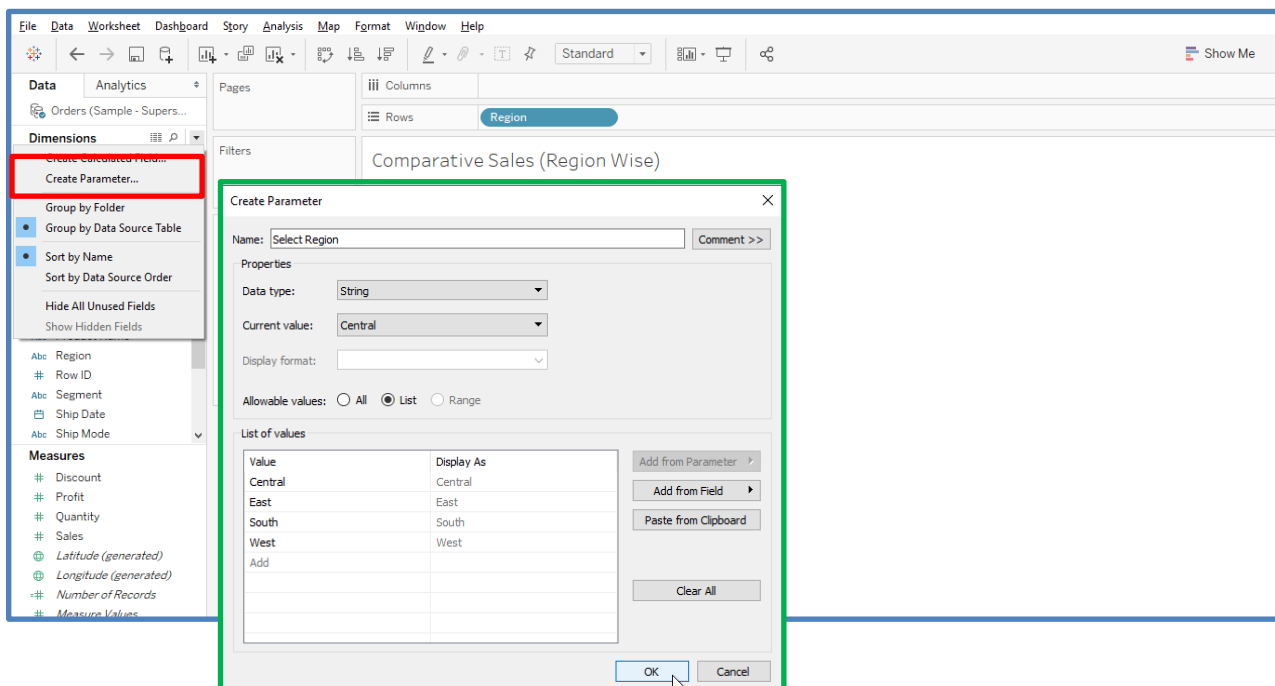
Isolate the sales of the Region, in which we are interested in doing comparisons with. This can be done with an IF statement and a parameter to make it dynamic.

Step 3: Now let's create a parameter called "Select Region".

Go to Data pane → Dimensions → Drop down → Create Parameter

Create Parameter Dialog Box

- ➢ Name: Select Region
- ➢ Data Type: String
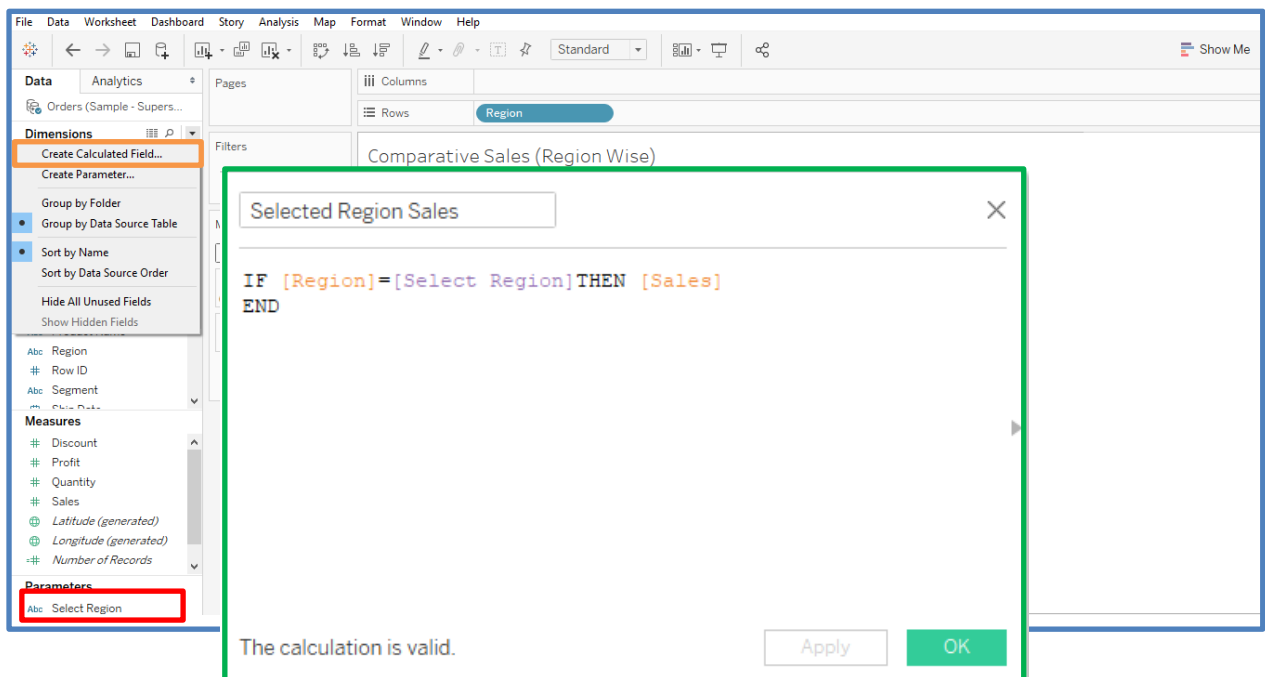- ➢ Allowable values: List → Add from field → Select Region → OK

Step 4: Now let's create a calculated field called "Selected Category Sales".
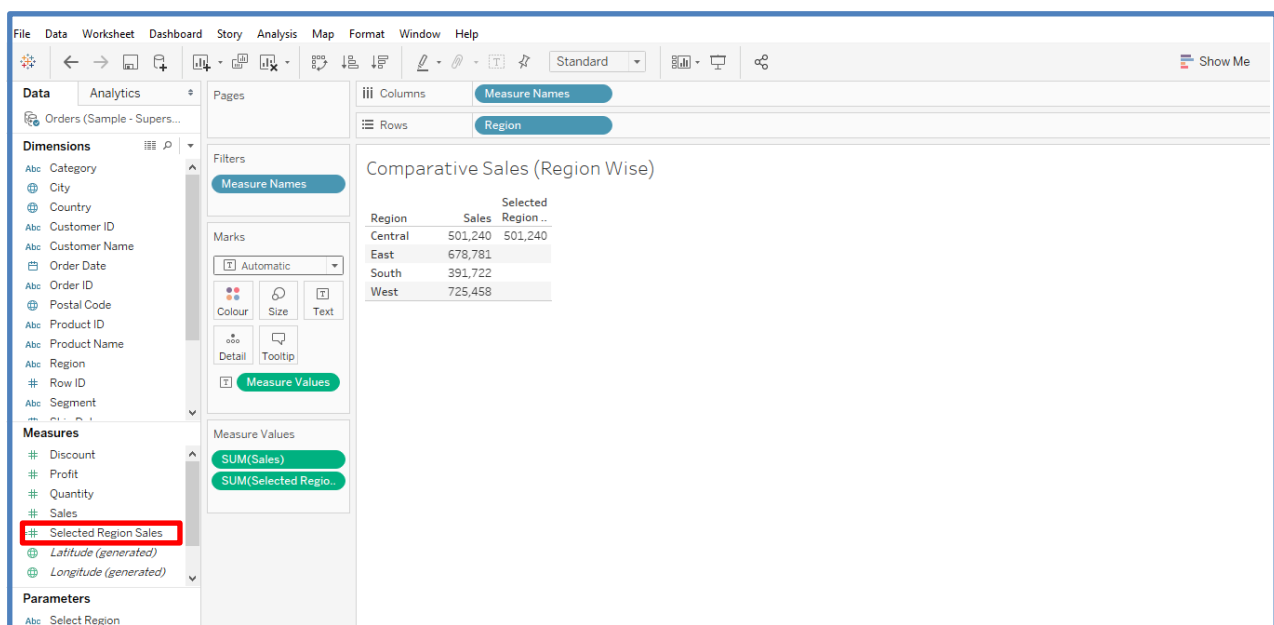
Go to Data pane → Dimensions → Drop down → Create Calculated Field

Create Calculated Field Dialog Box → Selected Region Sales → Calculation

> IF [Region] = [Select Region] Then [Sales]
>
> End

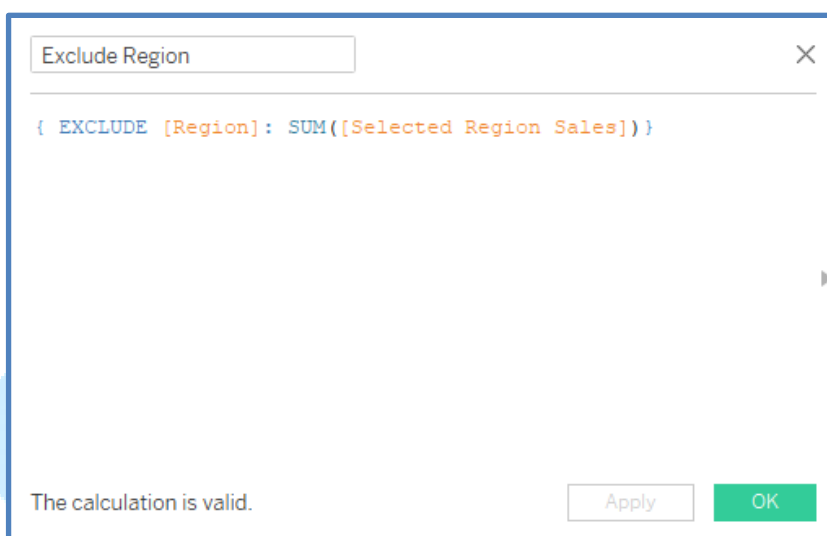Now, drag "Selected Region Sales" to view.

An EXCLUDE LOD expression can be used to propagate the sales from the selected Category across all Categories. This will make it easy to compare the sales of each Category to the selected Category.

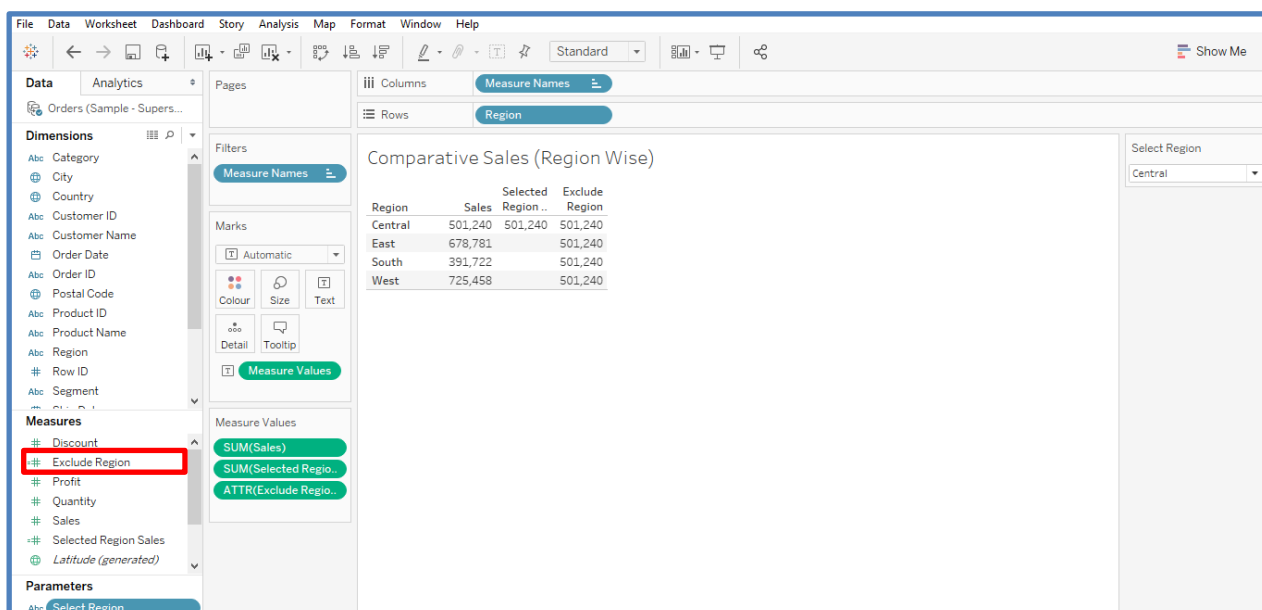**Step 4:** Let's create another calculated field "Exclude Region".

Go to Data pane → Dimensions → Drop down → Create Calculated Field

Create Calculated Field Dialog Box → Exclude Region (Name) → Calculation

{EXCLUDE [Region]: SUM ([Selected Region Sales])}

Now, drag "Exclude Region" to Measure Values. It will reflect the sales in selected region. In our view by default Central is selected, and it is showing the sale of Central region in Exclude Region Column.
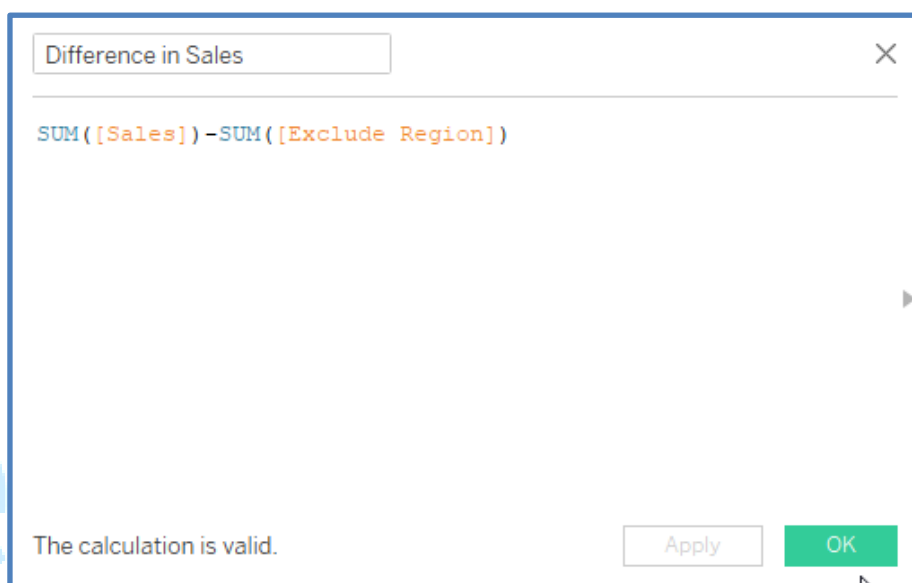
Now, that the Sales for the selected Region is repeated across all other Categories the difference can be calculated.
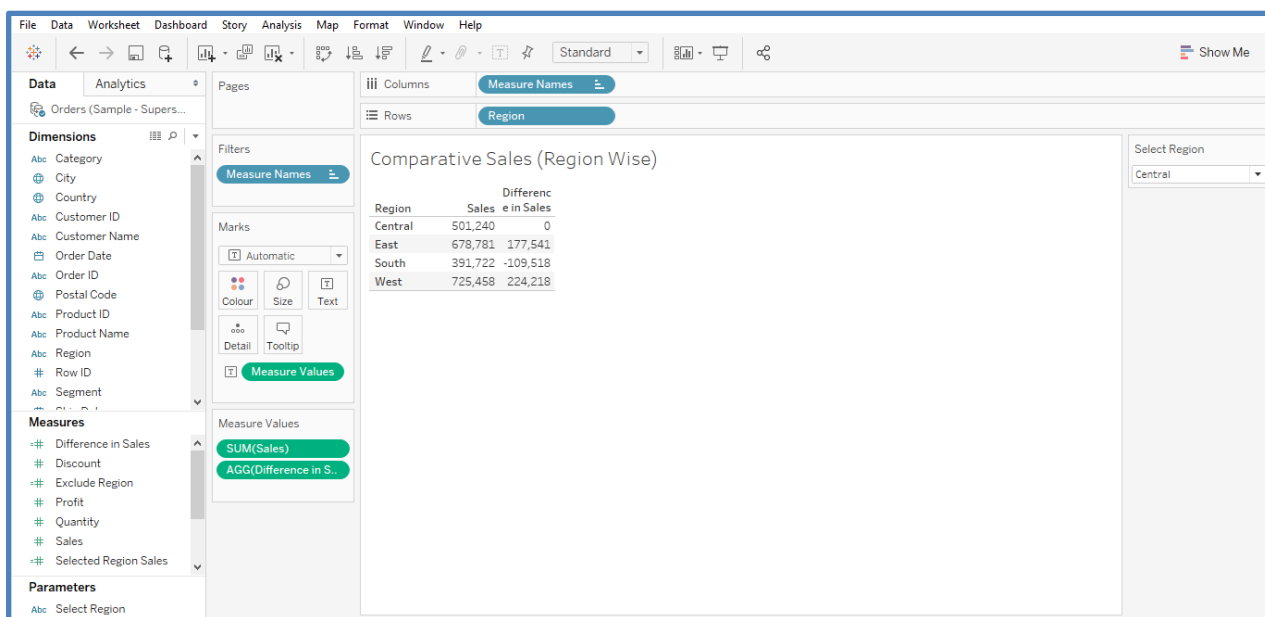
Step 5: Create a calculated field which calculates the difference in sales for different regions.
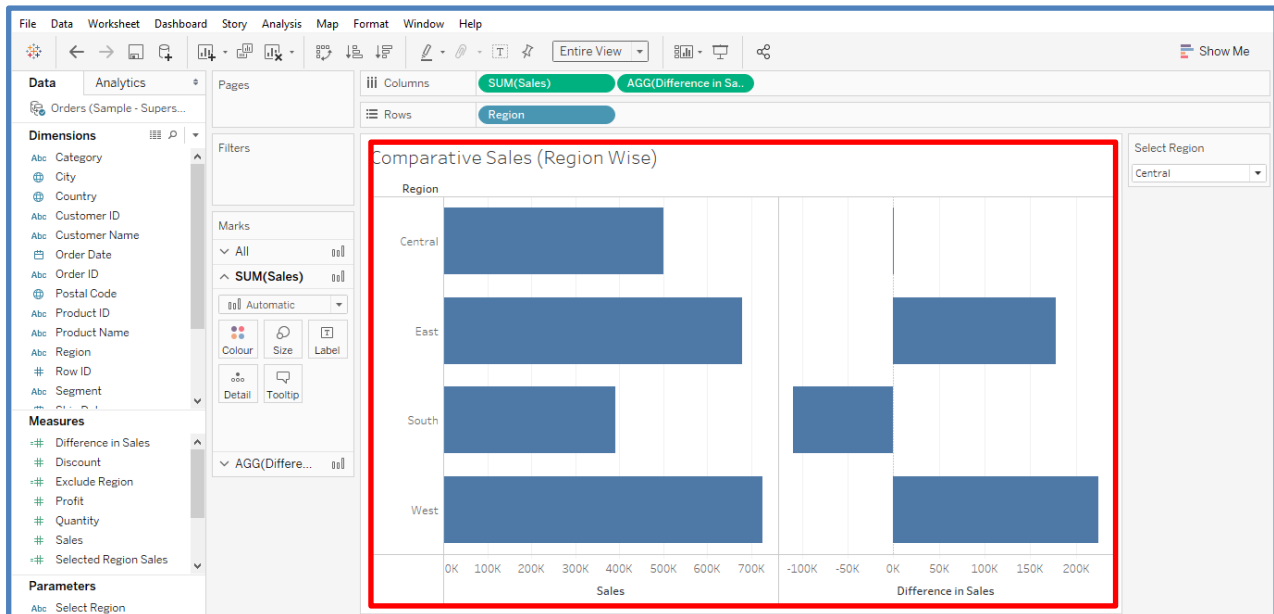
Calculation is given below:

SUM([Sales])-Sum ([Exclude Region])

Step 6: Drag and drop "Difference in Sales" to Measure Values and remove Exclude region and Selected region sales.

Now, we have the visualization which reflects the sales and difference in sales in all regions when compared with the Central region.