**Charts covered in the Training –**

**File - Training (Join and Blending).twbx –**

[**..\Tableau Training Workbooks\Training (Join and Blending).twbx**](../Tableau%20Training%20Workbooks/Training%20(Join%20and%20Blending).twbx)

1. **Sheet Name: Blending1**

* Sum of Profit (factTable+ (Sample - Coffee Chain (1))) broken down by Sub-Category.
* This is used to show blending activities between two different datasets coming from two different database but having a common key.
* The sheet shows that only blended fields can be pulled together for the data and if we pull anything other than the blended variable then the data comes as a "TOTAL" (same in front of everything).
* In the example, we have blended CoffeeChain data and Superstore data on the State variable. Then we created a view where we picked Sub-category from one data set and sum(profit) from the other. The data is same for all the sub-categories because the data is not pulled for the blended variable.

1. **Sheet Name: Basic Blending**

* Sum of Sales (Sample - Superstore) broken down by State.
* Refer to Blending1 tab for the background, In this sheet we have picked the States from one dataset and the SUM(Sales) from another. This is blended output.

1. **Sheet Name: Map on Blended Data**

* Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. Size shows sum of Profit (factTable+ (Sample - Coffee Chain (1))). The marks are labeled by State. Details are shown for Country and State.
* This Chart is a pure example of blending exercise. In this we have profit from both the datasets for each region. One profit is the size of the circles and other is color. Hence here in one view we can see data from multiple data sets using blending.

1. **Sheet Name: Region and Year**

* The trend of % of Total Profit for Order Date Year. Color shows details about Region.
* Basic Line graph that shows YOY quarterly profit for each of the region.

1. **Sheet Name: Grand Total and Sub Totals**

* The trend of % of Total Sales for Order Date Year broken down by Region. Color shows details about Ship Mode.
* This exercise is about the subtotals and totals. There are two breakdowns one is Region and the other is Ship Mode. So, we can do both sectional and sub-sectional sum using the analytics tab right next to the data on the top left corner of the sheet.

**File- Basic Charts Training.twbx**

[**..\Tableau Training Workbooks\Basic Charts Training.twbx**](../Tableau%20Training%20Workbooks/Basic%20Charts%20Training.twbx)

1. **Sheet Name: Stacked Bar**

* % of Total Sales for each Sub-Category broken down by Category. Color shows details about Order Date Year.
* Sum of Sales for each Sub-Category broken down by Category. Color shows details about Order Date Year. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* This is an exercise used to explain totals, sub-totals (sectional totals) for category and sub-category.

1. **Sheet Name: YOY**

* The trend of % Difference in Sales for Order Date Quarter. Color shows details about Order Date Year.
* Basic Line graph that shows YOY change in sales for each of the region.

1. **Sheet Name: Map**

* Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. Size shows sum of Sales. Details are shown for State.

1. **Sheet Name: Measure Names and Values**

* The trends of Profit, Quantity and Sales for Order Date Year. Color shows details about Profit, Quantity and Sales.
* Built to explain how different measures can be visualized in a single chart.

1. **Sheet Name: Box Plot**

* Sum of Sales for each Order Date Year. Details are shown for Customer ID.
* To see the distribution at the most granular level. The customer ID is used to bring in the scatter for each box.

**File- Training (All Material).twbx**

[**..\Tableau Training Workbooks\Training (All Material).twbx**](../Tableau%20Training%20Workbooks/Training%20(All%20Material).twbx)

1. **Sheet Name: Map**

* Map based on Longitude (generated) and Latitude (generated). Color shows sum of Profit. Size shows sum of Sales. Details are shown for State. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* There are two measures we are showing in this. One is the profit - shown in color. The red is loss and the darker the green the higher the profit of that state. Also, the size of the circle indicates the sale. Higher the sales of the state, bigger the size of the circle.

1. **Sheet Name: Map**

* The trend of sum of Sales for Order Date Year broken down by Category. Color shows details about Ship Mode. The view is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* This is used to depict the total and sub-total for each section and overall.

1. **Sheet Name: Hierarchy**

* Sum of Sales for each Sub-Category broken down by Category. Color shows details about Region. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.

1. **Sheet Name: Dual Axis**

* The trends of sum of Profit and Sales for Order Date Month. For pane Sum of Profit: Color shows sum of Profit. For pane Sum of Sales: Color shows details about Sales. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* This activity is to explain how to use dual axis to visualize two measures in one space. Also, the referenece line creation for different measures is shown here.

1. **Sheet Name: Multiple Measures (same as previous workbooks)**
2. **Sheet Name: Scatter Plot**

* Sum of Sales vs. sum of Profit. Color shows details about Region. Shape shows details about Category. The marks are labeled by sum of Sales. Details are shown for Customer ID. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* To see the concentration of the population across the profitability and sales volume. In order to see it for different region and the category of products, multiple shapes and colors are chosen.

1. **Sheet Name: Box Plot**

* Sum of Sales for each Order Date Year. Details are shown for Customer ID. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class. The view is filtered on Action (YEAR(Order Date)), which keeps 4 members.
* Another granular level view to find the concentration of sales volume at an annual basis.

After Dual Axis EXERCISE

1. **Sheet Name: After Dual Axis EXERCISE**

* The trend of sum of Sales for Order Date Month. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* An activity for the audience to create the sales trend for the whole year and add a average trend line for it (using reference lines)

1. **Sheet Name: Parameter Axis**

* Sum of Profit for each Axis Variable. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* To show the use of parameter to bring in dynamic axis.

1. **Sheet Name: Mean Median Total of Sales**

* The trend of % Difference in Calculation1 for Order Date Quarter. Color shows details about Order Date Year. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* An exercise to make audience create parameter rules and create dynamic charts.

1. **Sheet Name: Pie**

* % of Total Sales. Color shows details about Region. Size shows sum of Sales. The marks are labeled by % of Total Sales. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.

1. **Sheet Name: Donut**

* Sum of Donut and sum of Donut. The marks are labeled by sum of Sales. For pane Sum of Donut: Color shows details about Region. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* A complex chart that requires the use of dual axis and multiple pie charts laid one over another.

1. **Sheet Name: Word Cloud**

* State. Color shows sum of Profit. Size shows sum of Sales. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* To create a word cloud, select the chart type as 'TEXT' and then push State in it. Put profit in color to know which states are making loss/profit depicted by the intensity of the color. If you push sales in the size, the cloud will show the large and small size state names based on the sales volume.

1. **Sheet Name: Waterfall**

* Running Sum of Sales for each Region. Size shows sum of Calculation2. The marks are labeled by % of Total Sales. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* It is a Gantt bar graph

1. **Sheet Name: Shapes**

* AVG(0) and AVG(0.5) for each Segment. For pane AVG(0): Shape shows details about Segment. The data is filtered on Ship Mode, which keeps First Class, Same Day, Second Class and Standard Class.
* This is a fancy chart in which instead of segment name we have used images to depict them using shapes. This again is a dual axis exercise in which we do not sync the two axis.

**Dashboard**

A dashboard is a collection of several worksheets and supporting information shown in a single place so you can compare and monitor a variety of data simultaneously. For example, you may have a set of views that you review every day. Rather than flipping through each worksheet, you can create a dashboard that displays all the views at once.

Similar to worksheets, dashboards are shown as tabs at the bottom of the workbook and update with the most recent data from the data source. When you create a dashboard, you can add views from any worksheet in the workbook. Each view you add to the dashboard is connected to its corresponding worksheet. That means when you modify the worksheet, the dashboard is updated and when you modify the view in the dashboard, the worksheet is updated.

**References –**

Here are a few best practices which needs to be taken care of while building a business dashboard-

<http://onlinehelp.tableau.com/current/pro/desktop/en-us/dashboards_best_practices.html?TocPath=Design%20Views%20and%20Analyze%20Data|Present%20Your%20Work|Dashboards|_____1>

Tableau community website dedicated to the questions and discussions of various users across the globe is very helpful in solving strange and difficult situations while building a tableau dashboard –

<https://community.tableau.com>

Link to the tableau glossary - <http://onlinehelp.tableau.com/current/pro/desktop/en-us/glossary.html>