

IT 7113 Data Visualization - Tableau Lab 2: Charts

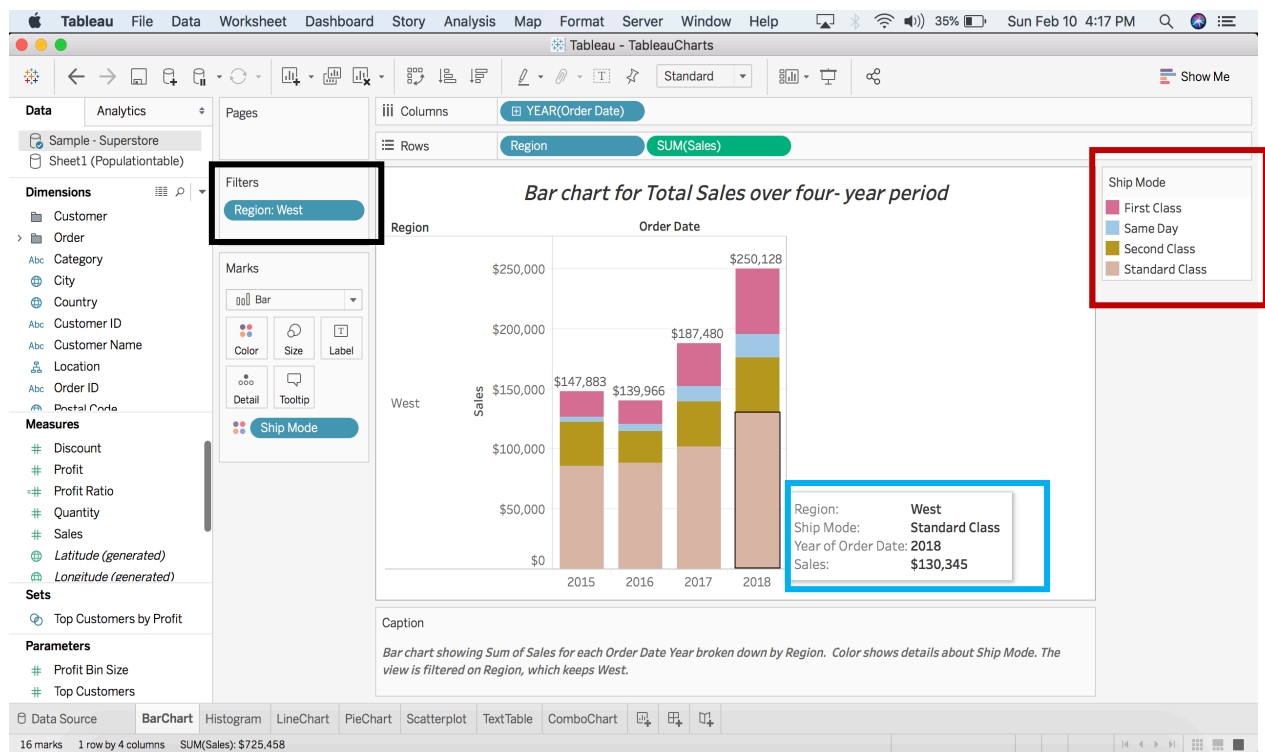
Assignment

1. Creating basic chart types in Tableau

Bar Chart

A bar chart uses the bar mark type and appears as rectangular bars. The bar chart used to display and compare discrete data in different categories.

Screenshot



The screenshot shows Bar chart for Sum of Sales for each Order Date (Year) broken down by Region with Title and caption.

In the Screenshot:

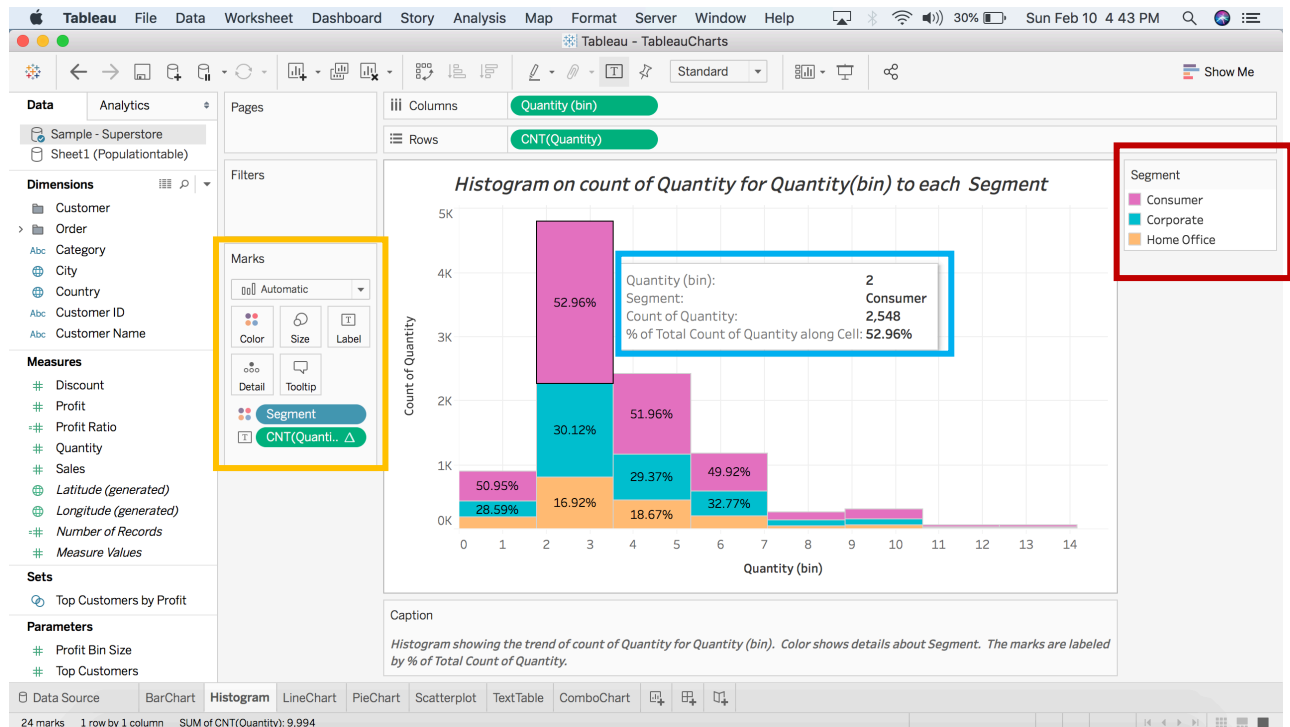
1. The ship mode is dropped in Color under Marks card to show the variation of each ship mode with different colors. The red highlighted box in the screenshot explains the color for each ship mode
2. The View is filtered on Region by specifically focusing on West Region. The black highlighted box
3. The blue highlighted box will be shown and describes the detail about the bar selected on mouse hover. It includes detail about the ship mode, sales, year on west region

4. The value shows on top of each bar is the Total sales value

Histogram

A histogram is a chart that displays the shape of a distribution. A histogram looks like a bar chart but groups values for a continuous measure into ranges, or bins.

Screenshot



The screenshot shows the Histogram with trend of count of Quantity for Quantity(bin) with Title and caption. Histogram type is available in show me only when there is single measure and no dimensions in column and row shelf.

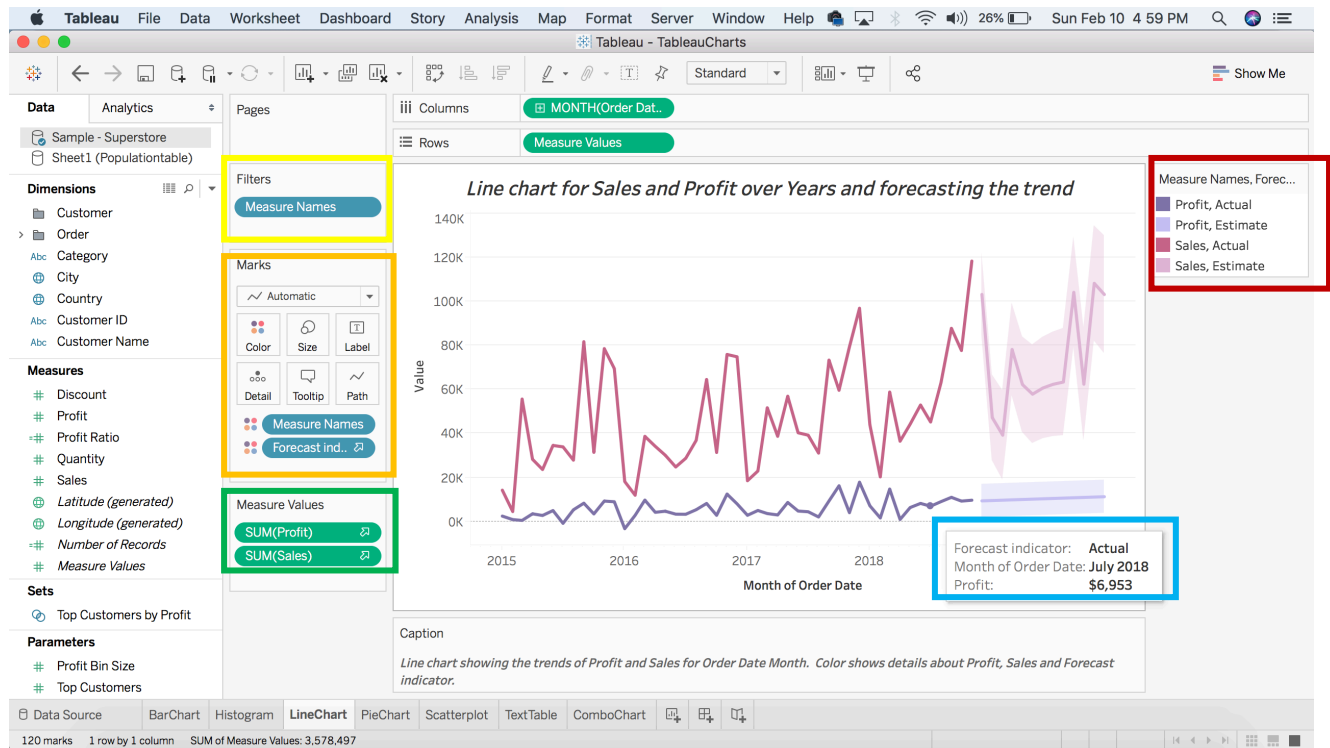
In the Screenshot:

1. The Segment dimension is dropped in Color under Marks card in yellow highlighted box and hence the histogram shows the variation of blocks with color for each segment in the view
2. The red highlighted box shows the color for each segment applied in the view.
3. The blue highlighted box describes the detail about the Quantity, Segment, Count of quantity with % of Total Count of quantity
4. In the orange highlighted box, the CNT(Quantity) is dropped under label to show the values in the view. On top of it a table calculation called Percent of Total is done for each cell to get the % of Total CNT(Quantity)

Line Chart

Line charts connect individual data points in a view. They provide a simple way to visualize a continuous or semi-continuous value. Also used to visualize a trend in data over intervals of time.

Screenshot



The screenshot shows the Line Chart with Trends of Profit and Sales (Measure Values) for Order Date Month along with Title and caption.

In the Screenshot:

1. The green highlighted box shows the Measure values of the view which is Sum of Profit and Sum of Sales
2. The orange highlighted box shows, the Measure Names are dropped in Color under Marks card for showing the variation in the view for profit and sales. In addition, Forecast indicator is also dropped in color to differentiate the Actual and Estimated profit and sales
3. The view is filtered based on Measure Names shown in the yellow highlighted box
4. The red highlighted box denotes the color for each measure names and forecast indicator
5. The blue highlighted box describes the Profit and forecast indicator for specific month. The sales value can be viewed by mouse hovering the points in other line
6. The Forecast is formed by dropping the forecast model from Analytics tab to the view