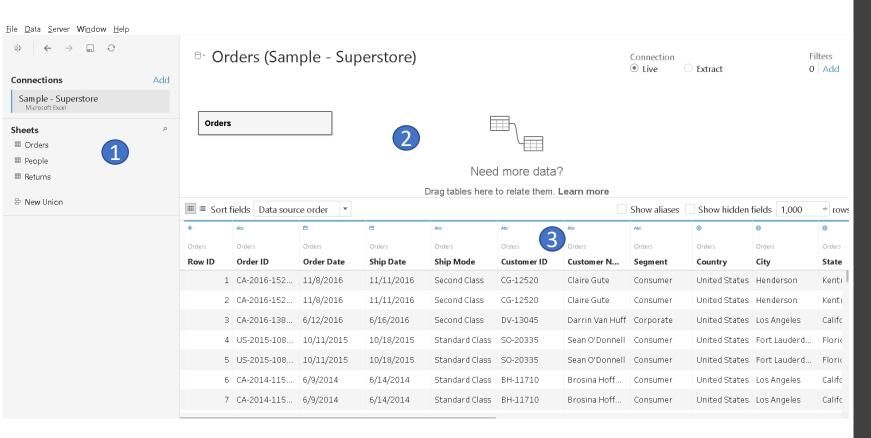
Visualization with Tableau



Agenda

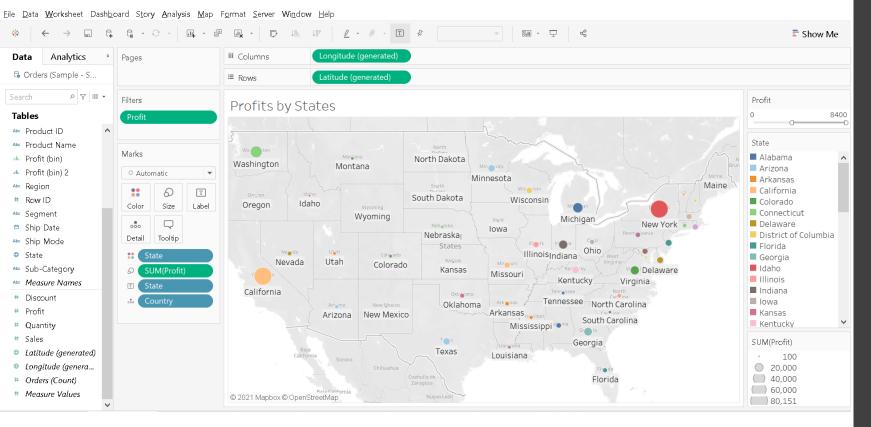
- Understanding the Data source
- Defining data points using Mapbox©
- Checking the trend of key elements
- Plotting the correlation of data
- In Depth Analysis
- Dashboard
- Story





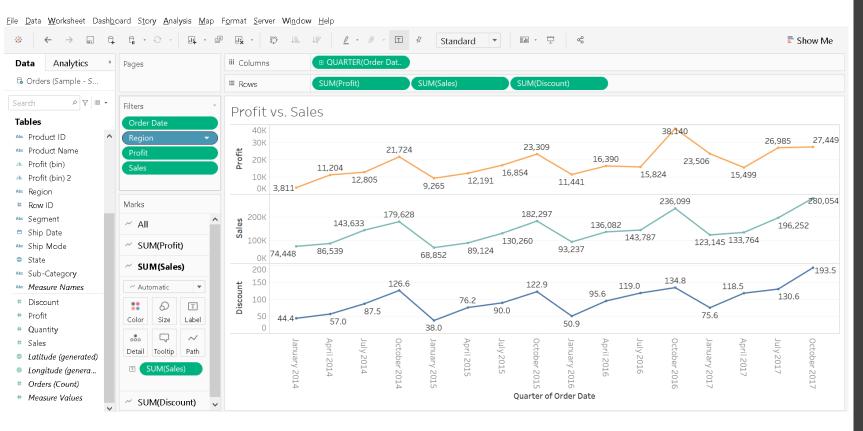
Understanding the Data Source

- The Data Source is the parent tab that formulates the data flow.
- In this demonstration, a simple extract of a data sheet is considered to perform the visualization process.
- The first pane captures the connections from multiple data sources.
- Multiple Information Sources can be merged to form a logical data set as depicted in the second pane.
- The data source can either be captured live, or can be formulated offline using the 2 radio buttons on the top right.
- The third pane renders the output.



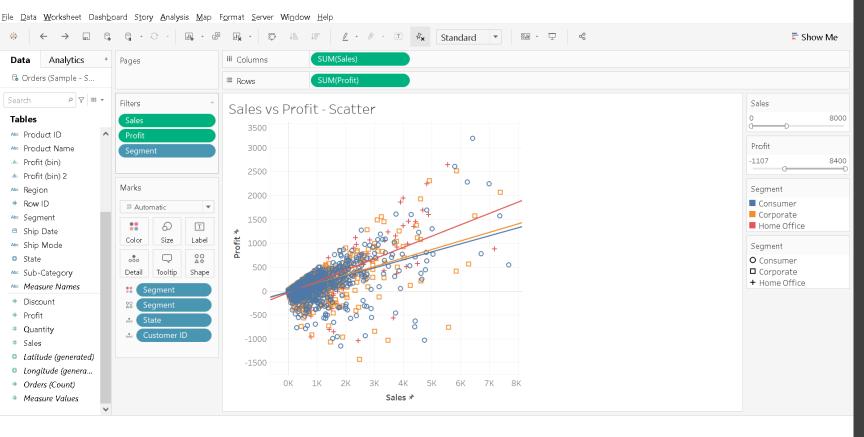
Defining data points using Mapbox©

- The Mapbox provides a holistic view as to how the data is defined from the geographical perspective.
- The Latitude and Longitude are the key parameters (rows and columns) used, to define the range of locations.
- The Filters are primarily used to select a particular chunk of data.
- The Marks help us define as to how the information must be depicted.
- In this example, we have used the Color, Size, Label and Detail components to configure the Marks.
- To the right, is the output based on the points described above.



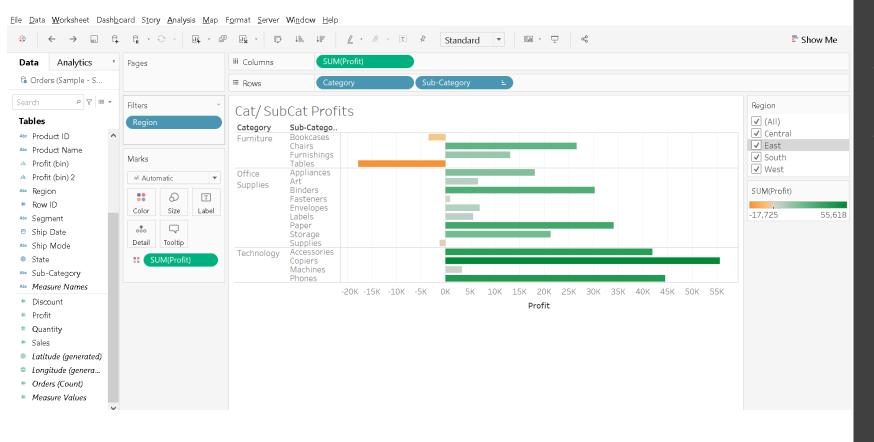
Checking the trend of key elements

- The Filters, Marks, Rows and Columns would act as a basic input criteria to define and design the visualization.
- The "Show Me" to the top right is a smart tool by Tableau to decide as to which kind of chart can fit into the formulated data.
- In this example, the line chart is considered to check the trend of the multiple features in the data set.
- It helps us to perceive a broader picture of the cause-and-effect parameters.



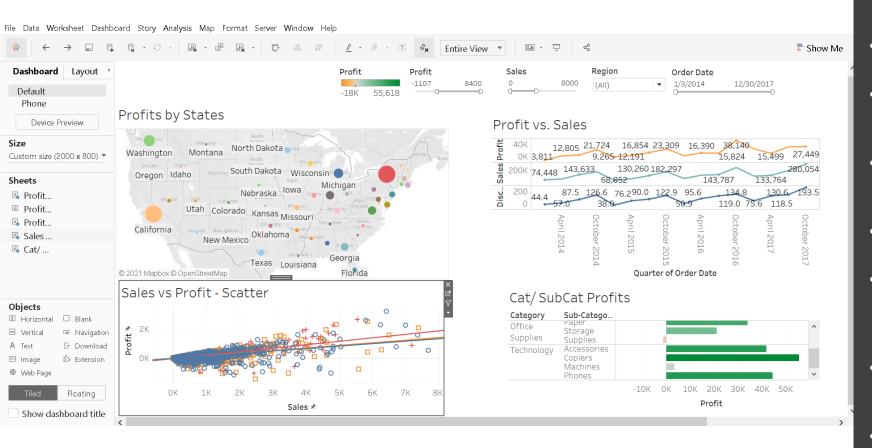
Plotting the correlation of data

- To identify the correlation between the effort and outcome of a business, a scatter plot would be an ideal option.
- If the correlation is positive, then it gives us an intuition of the progressive business.
- This chart also encompasses the Shape component from the Marks which classifies the categories in that segment.



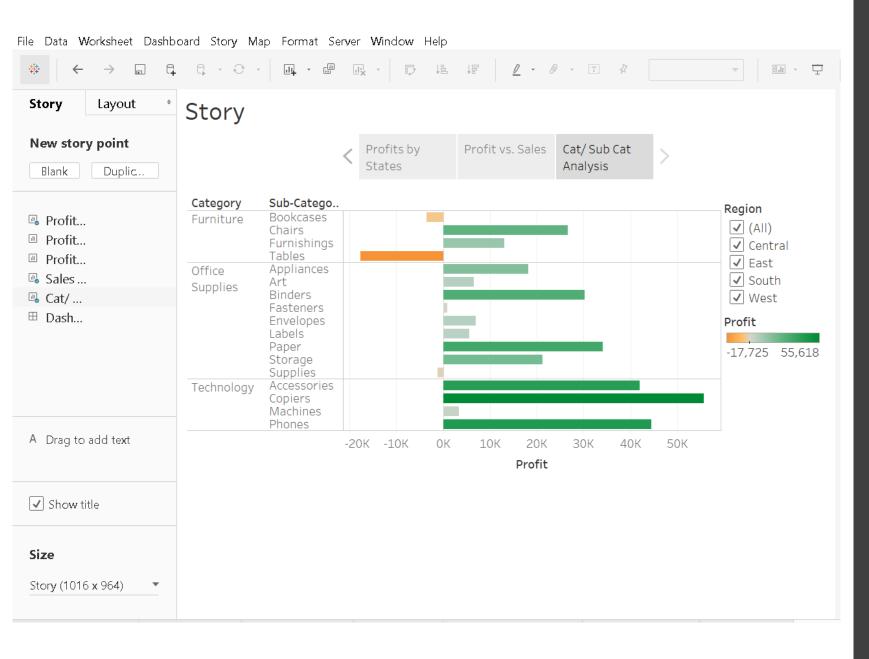
In Depth Analysis

- The Tableau has the dynamic ability to accommodate plethora of visualizations based on the input parameters.
- Since this use case demands to determine the outcome of the Sale vs. Profit, a horizontal bar chart with appropriate Filters and Marks coupled with the below identifiers are considered to visualize an in-depth analysis of Sales vs. Profit:
 - o Rows: Categories, Sub-Categories
 - o Column: Profit



Dashboard

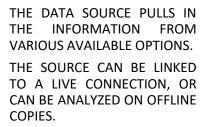
- Dashboard is a powerful way of putting all the numbers in one view.
- The sheets that we work on might be from perspective of analysis and not all the sheets are required to be visualized frequently.
- Dashboard becomes a comprehensive tool to depict what is required and that needs continuous attention.
- The Size can be altered as per the Display size of the dashboard (TV, Projector etc.).
- The Sheets are the individual pages that are analyzed with different visualizing components to determine a relation or a potential outcome from a feature (or) a set of features..
- The Objects are primarily the add-ons that can be used in the Dashboard to enable accessibility and readability.
- The filters of each chart are placed on the top for high level analysis.



Story

- The story is a presentation module that enables the presenter to selectively choose the Sheets that needs to projected.
- The slide navigation are placed on the top of the visualization.
- The filters are available for each depiction making the easy access for quick analysis.







THE SHEETS ARE GENERALLY INDIVIDUAL PAGES TO VISUALIZE POTENTIAL FEATURES IN THE DATASET



THE DASHBOARD IS A ONE STOP SHOP FOR DEPICTING THE STRATEGIC AND CRITICAL FEATURES IN THE DATA SET THAT TARGETS AN INTENDED YIELD.



THE STORY IS A PRESENTATION MODULE THAT SELECTIVELY PRESENTS THE SHEETS THAT NEEDS TO PROJECTED.

Summary

