

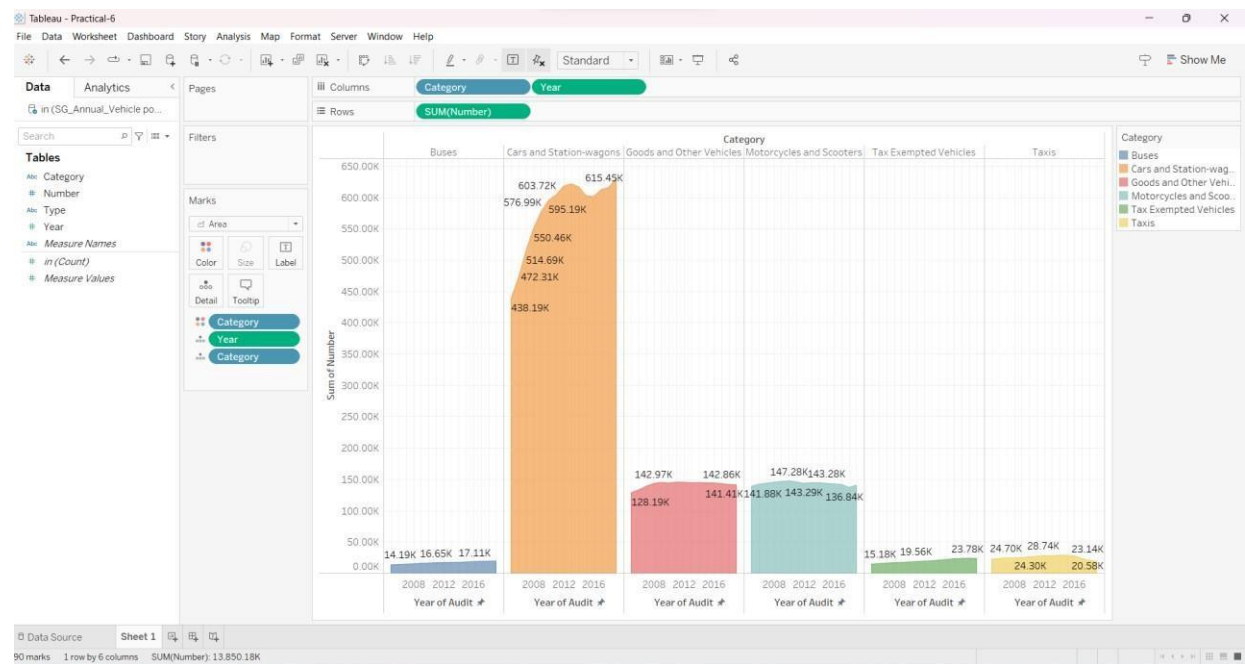
Experiment 6: Exploratory visual analytics using tableau

Aim: Creating appropriate visualization for given dataset to support the insight

Activity: Visualizing the Growth of Passenger Cars in Singapore

Data description: Recently, the Singapore government appointed a new head of vehicle inspection. This newly created department will analyze vehicle sales over the past few decades, study growth/trends, and create policies and rules to further help the government reduce emissions. As part of the initial onboarding, the head of vehicle inspection has asked to look at sales trends for each vehicle category, including buses, taxis, cars, and goods vehicles. They expect an analyst to create a single view showcasing the trends for sales of these vehicle categories. As an analyst, considering that the head of vehicle inspection expects to see trends across multiple categories and years, you decide to use an area chart with color coding for easier readability. In this activity, you will be showcasing the skills that you have learned in this chapter by creating multiple charts. You will be using the SG_Annual_Vehicle_Population data provided here, Perform the following steps to complete this activity:

1. Import and open the data that was downloaded.
2. Drag Category to the Columns shelf and Number to the Rows shelf.
3. Drag Year to the Columns shelf.
4. Drag and drop Category to the Color Marks card.
5. Drag and drop Year to the Label Marks card.
6. Change the Axis title to just Year of Audit.
7. Edit the axis to change Major Tick Marks to Fixed and set the intervals to 1
8. The expected output is as follows



The chart provides a visual representation of how the total vehicle population has evolved over the years in the Cars and Station Wagons have shown significant growth but Taxis have declines in last 2 years, other vehicle categories have a slow but progressive growth rate.

By observing the overall trend line, its possible to identify periods of growth or decline In vehicle sales.