

Program 3. Creating a View - formatting charts, adding filters, creating calculated fields and defining parameters

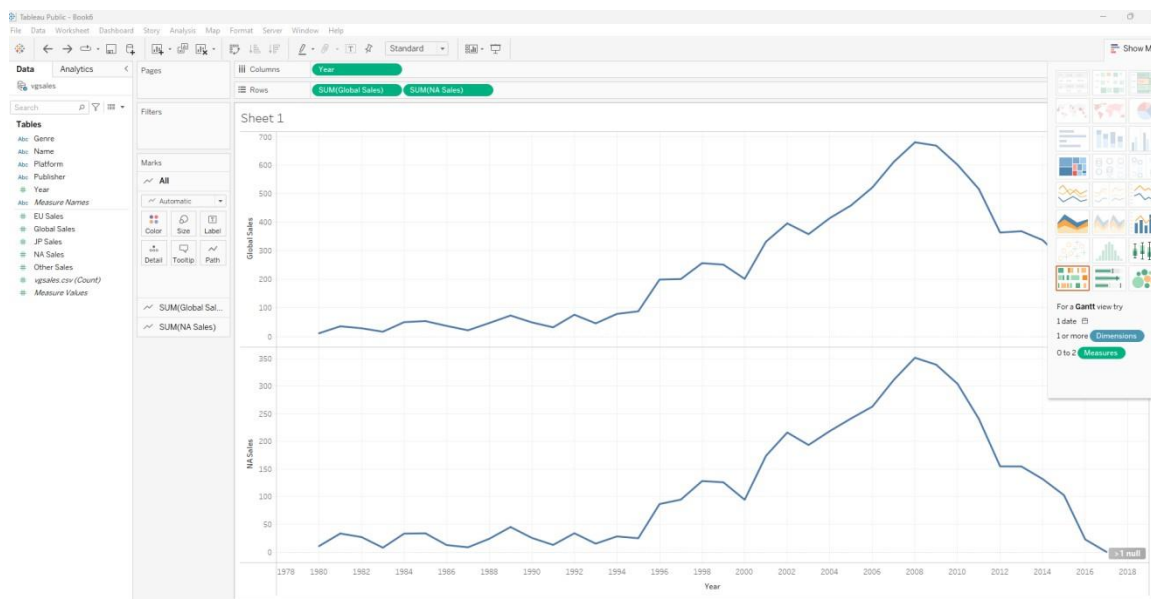
Step 1: Connect to Data

1. **Open Tableau Desktop.**
2. **Connect to Your Data Source**
 - a) Click on Connect on the left sidebar
 - b) Choose your data source by selecting text file and load your vgsales dataset into Tableau.

Step 2: Create a Basic Visualization

- **Create a New Worksheet:**
 - a) Click on the Sheet tab at the bottom of the screen.
- **Drag Fields to Shelves:**
 - a) Drag Year to the Columns shelf
 - b) Drag Global Sales to the Rows shelf.

Drag EU Sales to the Rows shelf.



- **Change Visualization Type:**

In the Show Me panel on the right, select a bar chart or any other type that suits your needs.



Step 3: Format the Chart

- Format Axes:**

- Right-click on the Global Sales axis and select Format.
- In the Format pane, adjust the font style & size as needed.

- Add Titles and Annotations:**

- Click on the chart title area and enter a descriptive title - Global Sales by Year.
- Add annotations if needed to highlight specific data points – Right click the on the chart which you want to highlight - Select Annotate - Select Mark - Press Ok

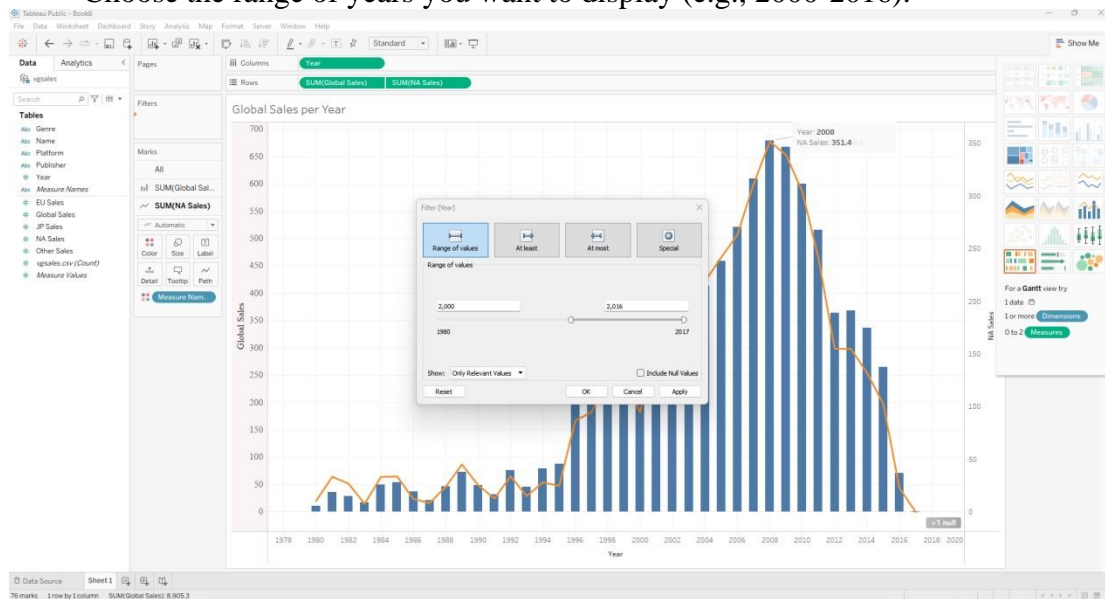


Step 4: Add Filters

Add a Filter for Year:

Drag Year to the Filters shelf.

Choose the range of years you want to display (e.g., 2000-2016).

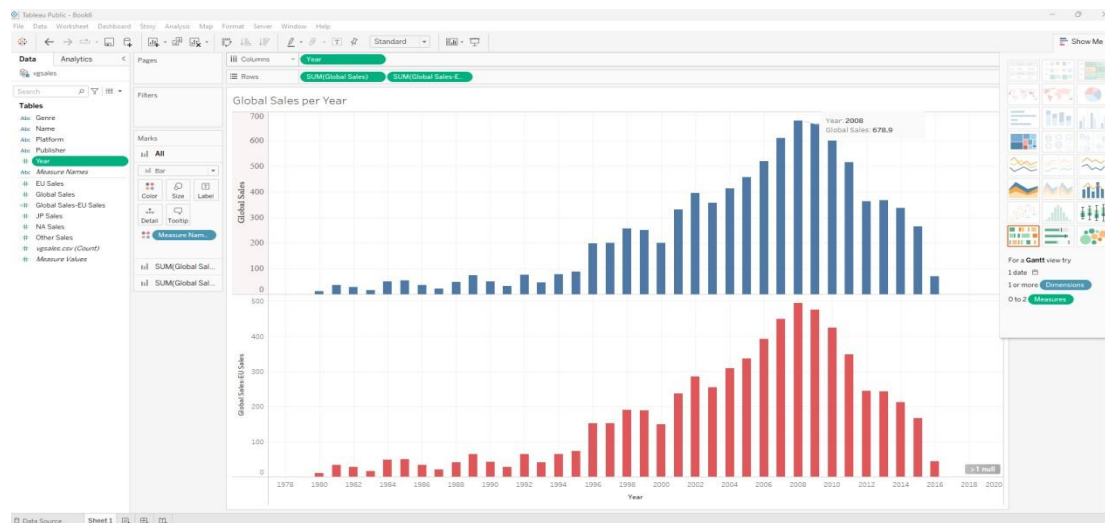


Step 5: Create Calculated Fields

- **Create a Calculated Field for Sales Category:**
 - Right-click on Global Sales - Select Create - Calculated Field.
 - Give name to your calculations as Global Sales - EU Sales
 - Do calculations as per your need - [Global Sales] - [EU Sales]
 - Press Ok

Add Calculated Fields to Visualization:

- Drag Global Sales-EU Sales to the Rows shelf to show Global Sales over Year with Global Sales-EU Sales over Year.

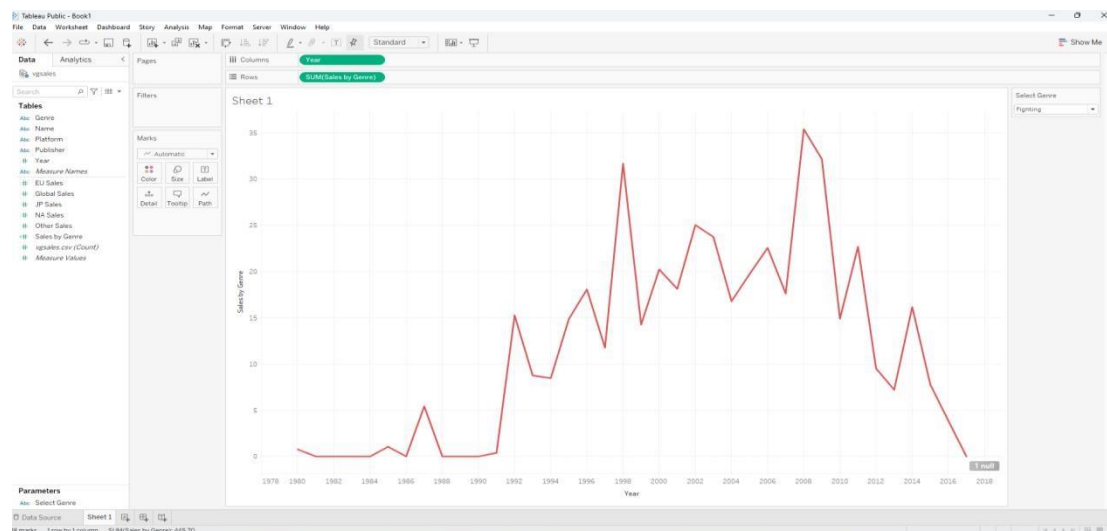
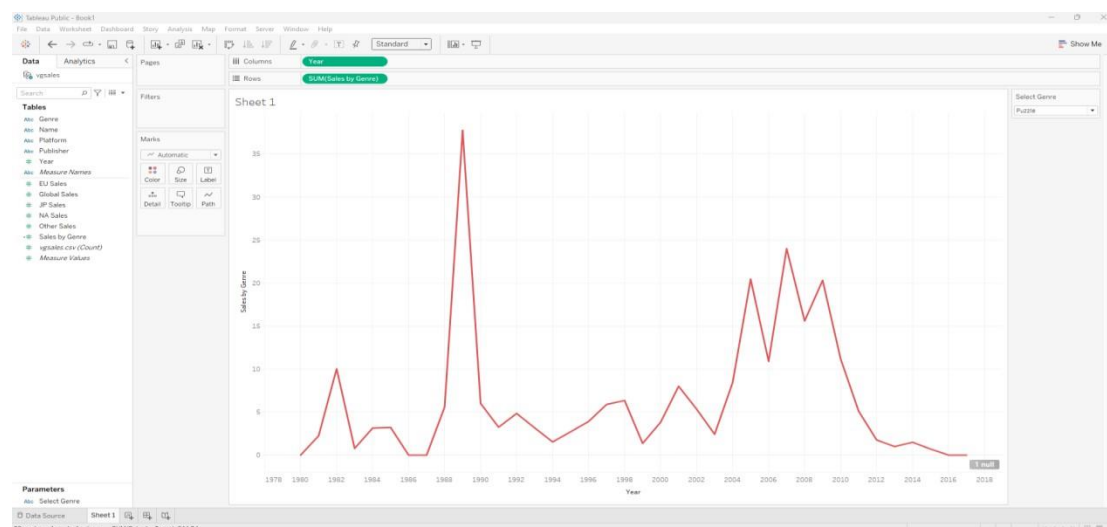


Step 6: Create a Parameter:**Name:** "Select Genre"

- **Data Type:** String
- **Values:** List (e.g., "Action", "Adventure", "Shooter") or Add values from Genre.
- **Create a Calculated Field:**
- **Name:** "Sales by Genre"
- **Formula:**
- IF [Genre] = [Select Genre] THEN [Global Sales] ELSE 0 END

Build the Visualization:

- **Columns:** Drag "Year".
 - **Rows:** Drag "Sales by Genre".
 - At the right side of your sheet you can select required Genre and can see different Visualization
- Visualization by Genre: Fighting

**Visualization by Genre: Puzzle**Reference Video Link - <https://www.youtube.com/watch?v=n5saTnxoeE>