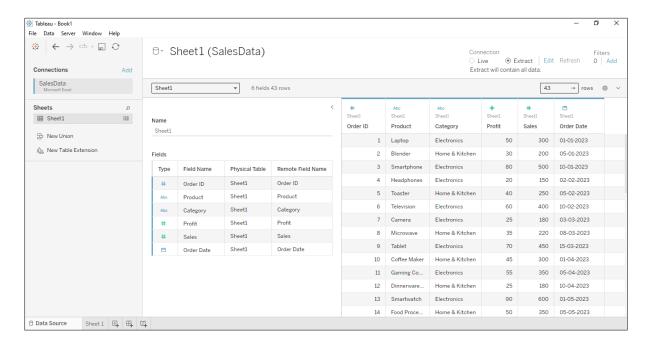
Answer Key

1. Import the SalesData.xlsx dataset into Tableau

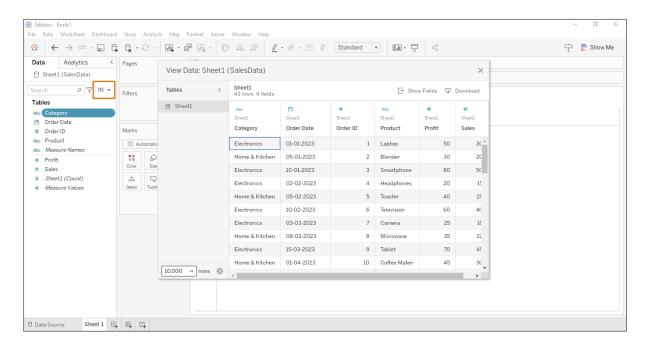
- Open Tableau Desktop; click on Connect and select Microsoft Excel
- Navigate to the location of **SalesData.xlsx** and select it
- Verify that the data types are correctly interpreted and adjust if needed

Output:



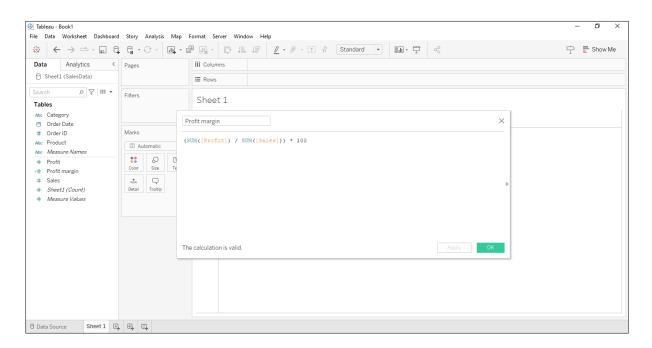
2. Explore the dataset to understand its structure and contents

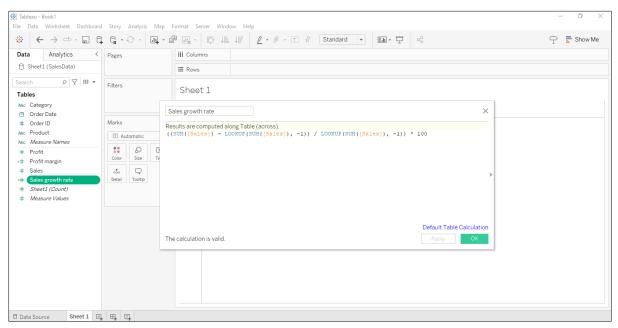
- Examine the fields in the Data pane to understand the columns available
- Click on the View Data to get a better understanding of each category

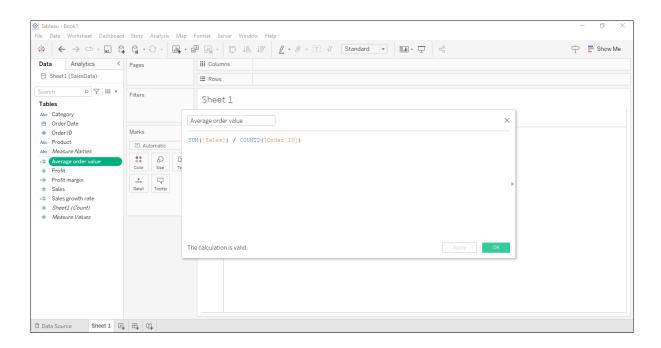


3. Create calculated fields for the following metrics

- Navigate to the Data pane and right-click to select Create Calculated
 Field
- For Profit margin: enter the formula (SUM([Profit]) / SUM([Sales])) * 100
- For Sales growth rate: enter the formula ((SUM([Sales]) -LOOKUP(SUM([Sales]), -1)) / LOOKUP(SUM([Sales]), -1)) * 100
- For Average order value: enter the formula SUM([Sales]) / COUNTD([Order ID])



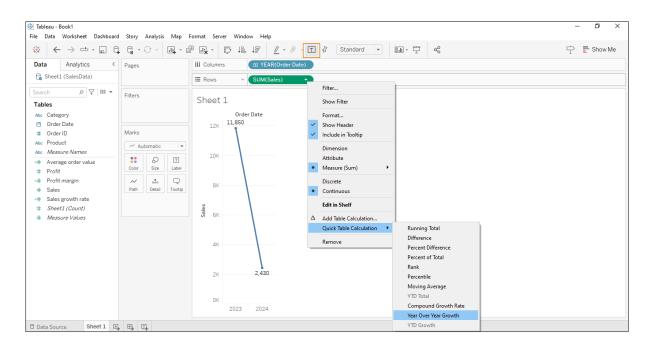


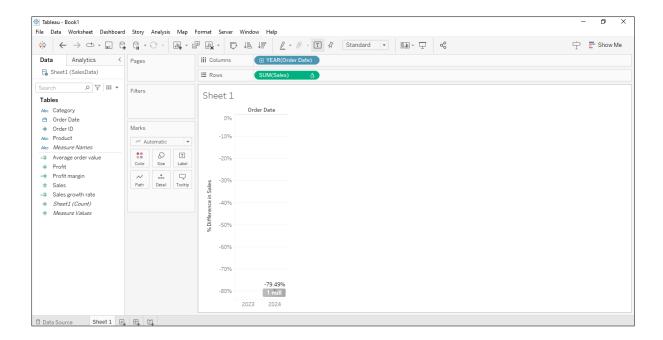


4. Utilize table calculations to perform the following analyses

For year-over-year (YoY) growth:

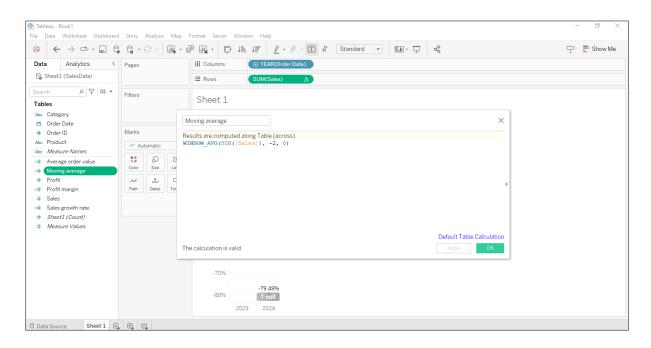
- Drag Order Date to Columns and Sales to Rows
- Right-click on Sales on the Rows shelf and select Quick Table
 Calculation and then choose Year Over Year Growth
- Click on **Text** label present above the **Columns** shelf

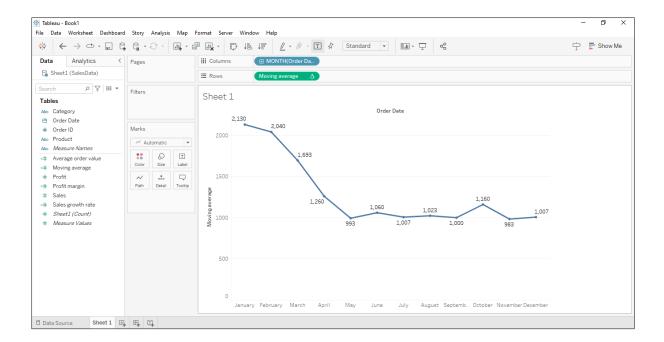




For moving average:

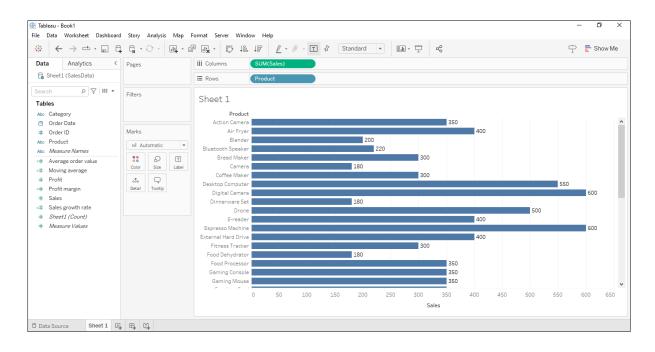
- Create a calculated field for moving average:
 - WINDOW_AVG(SUM([Sales]), -2, 0)
- Drag this calculated field (Moving average) into the Rows and adjust the date granularity as month

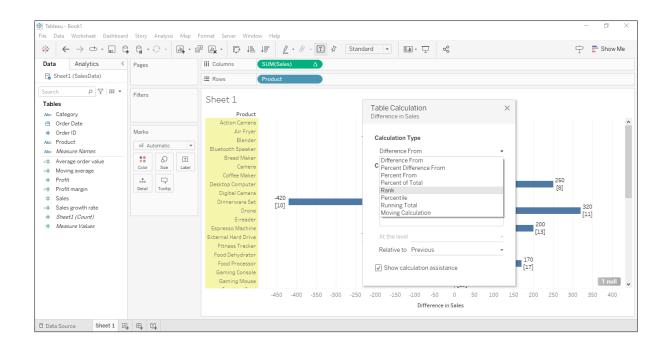


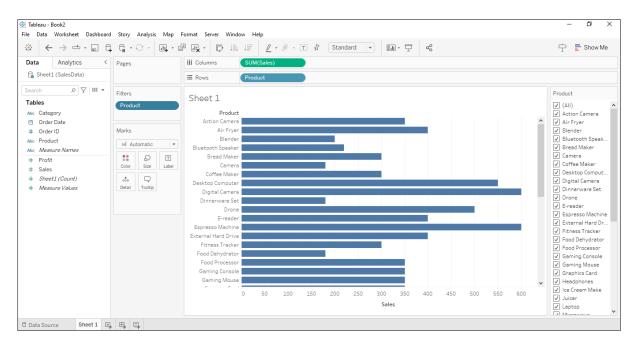


For sales rank:

- Drag Product to Rows and Sales to Columns
- Right-click on Sales on the Columns shelf and select Add Table
 Calculation. Choose Rank as the calculation type and configure settings as desired.
- Apply filters to focus on specific categories of **Product** and observe their rankings

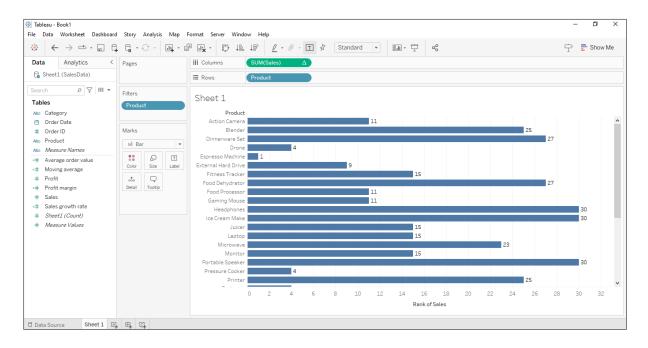


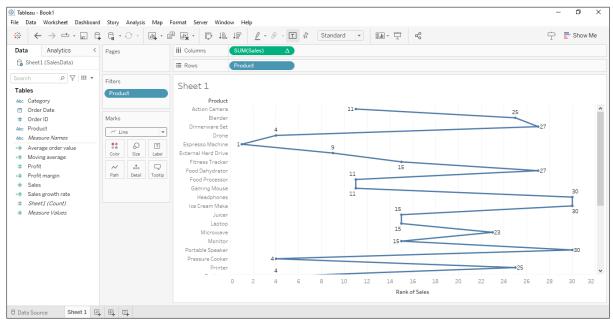


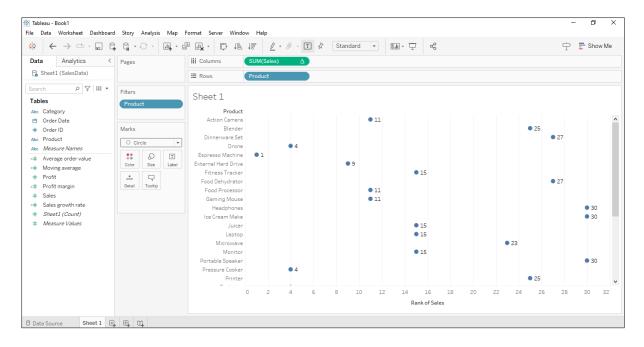


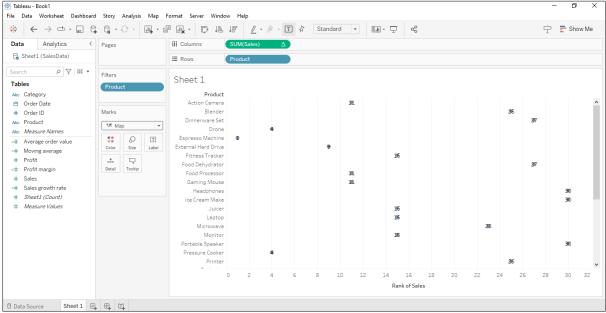
5. Create additional visualizations to explore other aspects of the dataset

- From the **Marks** card, generate **bar chart**, **line graph**, or **scatter plot** to visualize trends over time
- Create map to identify regional sales patterns



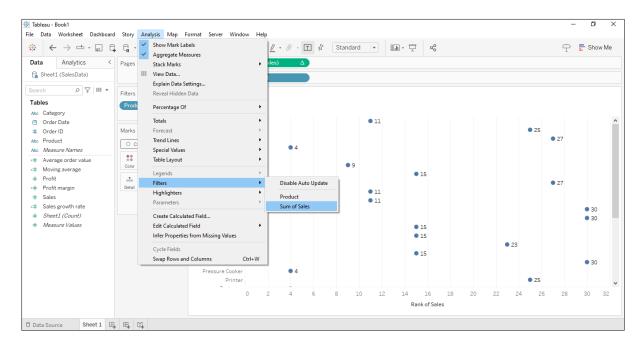


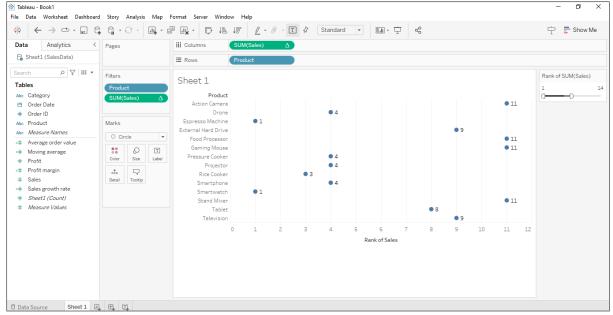




6. Apply filters and parameters to interactively analyze specific segments of the data

• Go to Analysis, click on Filters, and select Sum of Sales





• Go to Analysis, click on Filters, and select Product

