6. Retrieve the employee performance prediction dataset from

https://kaggle.com/datasets/gauravduttakiit/employee-performance-prediction in tableau .

- i. Create a bar chart or treemap showing total sales revenue by product and region.
- ii. Create a scatter plot with discount rates on one axis and sales volume or revenue on the other.

Add trend lines to identify correlations.

iii. Use a dual-axis chart or side-by-side bar charts to compare sales and return rates across regions.

iv. Use a heatmap or line chart to analyze monthly or quarterly sales and returns. Step 1: Download and Load the Dataset

### **Step 1: Download Datasets**

- Download the dataset from Kaggle.
- Load the data into Tableau.

### **Step 2: Create Visualizations**

### 1. Bar Chart or Treemap - Total Sales Revenue by Product and Region

- o Go to a new worksheet.
- Drag **Product** to the Rows shelf.
- o Drag **Region** to the Columns shelf.
- Drag Sales Revenue to Columns and set it to SUM.
- o Change the chart type to **Bar Chart** or **Treemap** in the Show Me panel.
- o Optionally, color by **Region** for clarity.

# 2. Scatter Plot - Discount Rates vs. Sales Volume/Revenue

- Create a new worksheet.
- o Drag **Discount Rate** to the Columns shelf.
- o Drag Sales Volume or Revenue to the Rows shelf.
- o In the **Analytics** pane, drag **Trend Line** to the scatter plot to highlight correlation.

### 3. Dual-Axis or Side-by-Side Bar Chart - Sales and Return Rates Across Regions

- o Create a new worksheet.
- o Drag **Region** to the Columns shelf.
- Drag Sales to the Rows shelf and Return Rate to a second Rows axis.
- Right-click on Sales and select Dual Axis to combine both metrics on one chart, or choose Side-by-Side Bars for separate comparisons.
- o Optionally, color by **Region**.

# 4. Heatmap or Line Chart - Monthly/Quarterly Sales and Returns

- Create a new worksheet.
- o Drag **Order Date** to the Columns shelf and choose **Month** or **Quarter** aggregation.
- o Drag Sales and Returns to the Rows shelf.
- Set the chart type to Heatmap (add Sales to Color shelf) or Line Chart to observe trends.

# 7. Refer to dataset in (6) and implement the following

- i. Use a scatter plot to analyze the relationship between product price and return rate.
- ii. Obtain the following KPI's

## Step 1: Scatter Plot for Product Price vs. Return Rate

- Create a new worksheet.
- Drag Product Price to the Columns shelf.
- Drag Return Rate to the Rows shelf.
- Use a **Scatter Plot** to analyze the relationship.

# Step 2: KPIs

## 1. Return Rate KPI

- o Calculate the percentage of sales returned:
  - Create a calculated field: Return Rate = (Returned Sales / Total Sales) \* 100
- Drag Product Category to Rows and the new Return Rate field to Columns.
- Visualize how the return rate varies by **Product Category**.

### 2. Sales Growth KPI

- o Calculate **Sales Growth** (Year-over-Year or Month-over-Month):
  - Create a calculated field: (Current Period Sales Previous Period Sales) /
    Previous Period Sales \* 100
- Drag Order Date to Columns (set to Year or Month), and Sales Growth to Rows to show growth rates over time.











