**Data Loading and Initial Preview**

**Code:**

* The cell loads three datasets: Customers.csv, Products.csv, and Transactions.csv into Pandas DataFrames.
* It displays the first few rows of each dataset.

**Output Highlights:**

* Customer Data: Columns include CustomerID, CustomerName, Region, and SignupDate.
* Product Data: Includes ProductID, ProductName, Category, and Price.
* Transaction Data: Contains TransactionID, CustomerID, ProductID, TransactionDate, Quantity, and TotalValue.

**Purpose:**

* To ensure the datasets are loaded correctly and understand their structure.

**Cell 2: EDA and Visualization**

**Code:**

* Checks for missing values and provides summary statistics for all datasets.
* Merges datasets into a single merged\_data DataFrame for analysis.
* Creates bar plots to analyze:
  1. Total sales by region.
  2. Sales distribution by product category.

**Output Highlights:**

* No missing values were detected in any dataset.
* Summary statistics reveal:
  + Average price of products is around 267.55, with a maximum of 497.76.
  + Average transaction value is ~689.99.

**Visual Insights:**

* The bar plot of total sales by region indicates which regions are the highest contributors.
* The category distribution plot shows the frequency of sales by product type.