**Exploratory Data Analysis (EDA) Summary**

**Objective**: The goal was to explore and understand the datasets to gather insights, detect patterns, and clean the data for further analysis.

**Approach**:

* **Data Overview**: Analyzed the structure of the datasets (Customer and Transaction data) and their key features.
* **Data Cleaning**: Identified and handled missing values and ensured proper data types for variables like dates and numerical values.
* **Statistical Summary**: Generated descriptive statistics such as means, medians, and distributions to understand the spread of customer profiles and transaction behaviors.
* **Visualizations**: Created plots like histograms, bar charts, and scatter plots to visualize distributions and trends (e.g., customer age, spending patterns).
* **Outlier Detection**: Noted extreme values in transactions that could affect analysis or need further investigation.
* **Correlation Analysis**: Analyzed relationships between key variables (e.g., price and quantity) to uncover trends.