**ANALYSIS-1 SUMMARY**

"Performed a comprehensive analysis of automobile sales data, initially addressing data formatting issues by utilizing pandas in Jupyter notebook. Implemented data cleansing techniques, including duplicate removal and handling of unwanted columns, with subsequent data type conversions. Ensured data integrity and safety by creating a copy of the dataset.

**Data Cleaning and Exploration:**

Addressed encoding issues and loaded data using pandas.

Handled duplicates, removed unwanted columns, and adjusted data types.

Imputed missing values for specific columns.

**Distribution of Vehicles Based on Year of Registration:**

Employed seaborn's point plot to visualize the distribution of vehicles based on the year of registration and vehicle type.

Conducted a bivariate analysis to depict the relationship between the two variables.

**Variation of Price Range by Vehicle Type:**

Extracted data on prices and vehicle types for analysis.

Utilized seaborn's bar plot to illustrate the variation in prices across different vehicle types.

**Total Count of Vehicles by Type:**

Calculated the count of each vehicle type using value counts.

Presented the findings through a count plot, offering a clear visualization of the distribution of vehicle types.

**Relationship Between Dollar Price and Kilometer:**

Demonstrated a negative correlation between price and kilometer using a correlation matrix.

Visualized the correlation through a heatmap, highlighting a moderate negative relationship between the two variables.

In summary, this project involved thorough data preprocessing, exploratory data analysis, and visualization techniques, providing valuable insights into automobile sales trends and relationships between key variables.