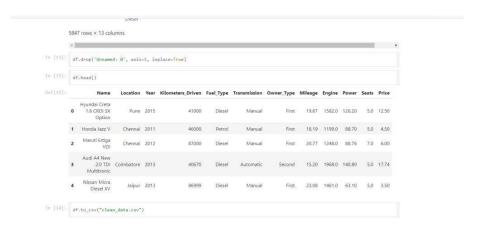
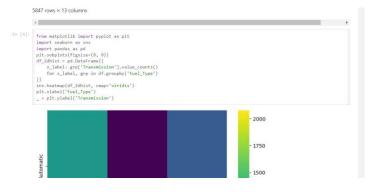
## PDS-Assignment2

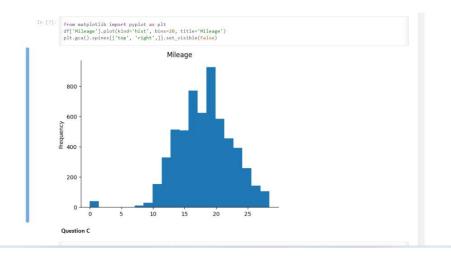
a) Missing values were identified in all columns of the train dataset. Imputation was performed by replacing them with either mean, median, or mode, depending on the nature of the data and the specific column.



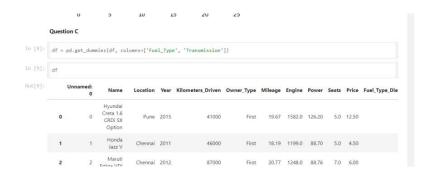




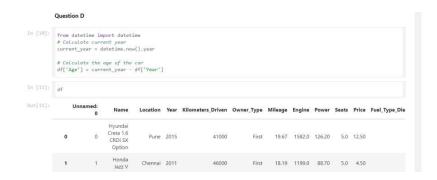
b) Units were removed from certain attributes in the train dataset, retaining only the numerical values. This involved removing "kmpl" from "Mileage," "CC" from "Engine," "bhp" from "Power," and "lakh" from "New\_price."



c) Categorical variables "Fuel\_Type" and "Transmission" were transformed into numerical one-hot encoded values, facilitating further analysis and modeling.



d) An additional feature was created and added to the train dataset. Specifically, the current age of each car was calculated by subtracting the "Year" value from the current year, providing valuable information for analysis.



e) Various data manipulation operations were performed on the train dataset, including select, filter, rename, mutate, arrange, and summarize with group by operations. These operations allowed for the extraction of specific columns, filtering of rows based on conditions, renaming of columns, creation of new columns, sorting of data, and aggregation of information by groups for summary analysis.

