A screenshot of a computer

AI-generated content may be incorrect.

To uncover valuable insights from the used car dataset, we applied a series of data wrangling operations:

* **Select**: We began by choosing key attributes such as Name, Year, Mileage, Engine, Power, Price, and Location, focusing our analysis on the most relevant features.
* **Filter**: We limited the dataset to cars manufactured **after 2016**, ensuring our analysis concentrated on more recent models, which generally offer better performance and retain higher value.
* **Rename**: For clarity, the Price column was renamed to Resale\_Price, emphasizing that the values represent second-hand market prices.
* **Mutate**: We introduced a new column, Car\_Age, derived by subtracting the manufacturing year from the current year (2025). This allowed us to evaluate trends based on how old each car is.
* **Arrange**: The data was sorted by resale price in descending order to highlight the most valuable newer vehicles.
* **Summarize (Group By)**: Finally, the dataset was grouped by Location, and we calculated:
  + The **average resale price** in each city
  + The **maximum engine capacity**
  + The **average mileage**
  + And the **number of cars listed** per location

These operations provided a comprehensive view of the used car market, helping identify how factors like region, engine size, and vehicle age impact resale value.