**1. Most Expensive Car Brands**

* **Identify the top 5 car brands with the highest average price.**
* **Shows your ability to filter, group, and rank data using aggregation functions.**

**2. Most Listed Car Models**

* **Find the most frequently listed car models in the dataset.**
* **Demonstrates proficiency in using GROUP BY and COUNT() to analyze trends.**

**3. Average Price by Fuel Type**

* **Calculate the average price for each fuel type (e.g., Petrol, Diesel, Electric).**
* **Showcases aggregation and categorical data analysis.**

**4. Price Distribution Over Car Age**

* **Analyze how car prices vary based on their age (current year - manufacturing year).**
* **Demonstrates the ability to work with date-based calculations and trends.**

**5. Transmission Type & Pricing**

* **Compare the average price of manual vs. automatic cars.**
* **Highlights the ability to analyze the impact of categorical factors on pricing.**

**6. Most Common Manufacturing Years**

* **Identify the top 3 most frequently occurring manufacturing years in the dataset.**
* **Demonstrates ranking and filtering using ORDER BY, GROUP BY, and COUNT().**

**7. Most Popular Car Brands by Listings**

* **Identify the top 5 car brands with the highest number of listings.**
* **Demonstrates proficiency in using GROUP BY and COUNT() to analyze market trends.**

**8. Price Variation by Car Age**

* **Calculate the average price of cars based on their age (current year - manufacturing year).**
* **Helps analyze depreciation trends in resale values.**

**9. Ranking Cars by Price Within Each Brand**

* **Rank cars by price within each brand using window functions (RANK()).**
* **Demonstrates knowledge of advanced SQL functions for ranking and partitioning.**

**10. Outlier Detection in Car Prices**

* **Identify cars priced significantly higher or lower than the average price.**
* **Showcases statistical analysis using standard deviation or percentiles.**

**11. Cars Listed for Sale Each Year**

* **Count how many cars were listed for sale each year.**
* **Shows ability to work with date fields and time-series analysis.**

**12. Most Commonly Sold Car Brands in a Given Year**

* **Identify the most listed car brands for a particular year (e.g., 2023).**
* **Highlights filtering and grouping by year for trend analysis.**

**13. Depreciation Analysis**

* **Compare the average price of cars by manufacturing year to see how value decreases over time.**
* **Shows trend analysis and numerical calculations in SQL.**