**Beginner Level (10 Questions)**

1. **Car Count by Manufacturer:** How many cars are there for each automobile manufacturer ('make')? Visualize this using a bar chart.
2. **Average Car Price:** What is the average price of all the cars in the dataset? Display this value in a card visual.
3. **Fuel Type Distribution:** What is the distribution of cars by 'fuel-type' (gas vs. diesel)? Show this with a pie chart.
4. **Horsepower by Body Style:** What is the average 'horsepower' for each 'body-style'? Compare them using a clustered column chart.
5. **Top 5 Most Expensive Cars:** List the top 5 most expensive cars, showing their 'make' and 'price'. Use a table for this.
6. **Engine Size vs. Price:** Is there a relationship between the 'engine-size' and the 'price' of a car? Explore this with a scatter chart.
7. **Two-Door vs. Four-Door Cars:** What is the count of cars with 'two' doors versus 'four' doors? A donut chart would be great for this.
8. **Fuel Efficiency Comparison:** What is the average 'city-mpg' and 'highway-mpg' for each 'fuel-type'? Use a line and clustered column chart to compare them.
9. **Interactive Filtering:** Create a slicer that allows a user to filter the entire report by 'drive-wheels' (fwd, rwd, 4wd).
10. **DAX Question (Calculated Column):** Create a new column named Full Tank Range (Highway) that estimates the car's range on a full tank of gas on the highway. Assume an average tank size of 15 gallons. The formula would be [highway-mpg] \* 15.

**Intermediate Level (10 Questions)**

1. **Price Categories (DAX):** Create a new calculated column called 'Price Category' using the SWITCH or IF function that categorizes cars into 'Low' (price < $10,000), 'Medium' ($10,000 <= price < $25,000), and 'High' (price >= $25,000).
2. **Percentage of Total:** Calculate the percentage of cars that each 'body-style' represents out of the total number of cars.
3. **Manufacturer Deep Dive:** Create a drill-through page that shows detailed information for a selected 'make'. This page should display all car models for that manufacturer, along with their specifications.
4. **Enhanced Tooltips:** Create a custom tooltip that displays the 'horsepower' and 'engine-size' of a car when a user hovers over its 'make' on a chart.
5. **Price Difference by Fuel Type:** Calculate the percentage difference in the average price between 'gas' and 'diesel' cars.
6. **Dashboard Views with Bookmarks:** Use bookmarks to create two different views of your dashboard: one focusing on 'gas' powered cars and another on 'diesel' powered cars.
7. **Summary Table (DAX):** Create a new calculated table that summarizes the average 'price', 'horsepower', and 'city-mpg' for each car 'make' using SUMMARIZECOLUMNS.
8. **Row-Level Security (Conceptual):** How would you implement row-level security to ensure that a user can only see data for a specific car 'make' that they are assigned to?
9. **Natural Language Query:** Use the Q&A visual to ask the question: "What is the average price of cars made by honda?".
10. **DAX Question (Measure):** Write a DAX measure named High Horsepower Cars that counts the number of cars with 'horsepower' greater than 150.

**Advanced Level (10 Questions)**

1. **Moving Average Calculation (DAX):** Create a DAX measure to calculate the moving average of 'price' across the 'engine-size'.
2. **Dynamic Top N Filter (DAX):** Implement a dynamic Top N filter that allows a user to see the top N cars by 'price', where N is a number selected from a slicer.
3. **Parent-Child Hierarchy:** Create a parent-child hierarchy to show the relationship between 'make', 'body-style', and 'fuel-type'.
4. **Complex Filtering with CALCULATE (DAX):** Write a DAX measure that calculates the average price of all cars *except* for the 'make' that is currently selected in a slicer.
5. **Feature Co-occurrence:** Analyze which car features are most often found together. For example, what 'drive-wheels' type is most common for 'sedan' 'body-style' cars?
6. **Data Model Optimization (Conceptual):** How would you use DAX Studio or the Tabular Editor to analyze and optimize the performance of your Power BI data model built from this dataset?
7. **Custom Visuals (Conceptual):** Describe how you could use a custom visual (like one from Charticulator, or an R/Python visual) to create a unique visualization that is not available in the standard Power BI visuals, such as a custom-designed network graph showing relationships between features.
8. **Cohort Analysis:** Perform a cohort analysis by grouping cars based on their 'make' and 'body-style' to identify trends or patterns in their 'price' or 'horsepower'.
9. **Data Storytelling:** Design a dashboard that tells a story about the automobile market. Your dashboard should guide the user through an analysis, starting with a high-level overview and then drilling down into more specific insights.
10. **DAX Question (Complex Measure):** Write a DAX measure that calculates the average price of cars for a selected 'make', but only for 'body-styles' that have more than 5 cars in the dataset. This will require a combination of functions like CALCULATE, AVERAGE, FILTER, and COUNTROWS.