**SQL Questions**

1. **Basic Queries**
   * Write a query to find the total sales amount for each product.
   * Retrieve the top 5 products with the highest sales.
   * Find the total quantity sold per region.
2. **Aggregation and Grouping**
   * Write a query to calculate the total sales and average price per unit for each category.
   * List the total sales per month across all regions.
   * Identify the product with the highest sales in each category.
3. **Filtering and Conditions**
   * Retrieve all sales records where the quantity sold is more than 5.
   * Find the records where total sales exceed $500.
   * Write a query to filter out sales made in the ‘North’ region.
4. **Advanced Queries**
   * Find the cumulative sales for each region, ordering by date.
   * Identify which category contributed the most to total sales for the year.
   * Write a query to calculate month-over-month growth in total sales.

**Excel Questions**

1. **Data Analysis and Formulas**
   * How would you use formulas to calculate the total quantity sold for each category?
   * Demonstrate how to find the average price per unit across all products using Excel functions.
   * Create a pivot table to summarize total sales per region and per category.
2. **Conditional Formatting and Lookup Functions**
   * Use conditional formatting to highlight sales greater than $500.
   * Use VLOOKUP or INDEX/MATCH to fetch the product name based on the Product ID.
   * Apply a formula to categorize sales as "High," "Medium," or "Low" based on the total sales amount.
3. **Charts and Data Visualization**
   * Create a chart that shows total sales per month.
   * Make a stacked bar chart comparing total sales by region for each category.
   * Use a line chart to display sales trends over time.

**Power BI Questions**

1. **Data Modeling**
   * Explain how you would create relationships between tables if the sales data were split by Product and Region tables.
   * How would you handle missing or incorrect data in Power BI?
2. **Data Visualization**
   * Create a visualization to show sales distribution by category and region.
   * Explain how you would build a dashboard to track monthly sales trends.
   * Use a card visualization to display total sales, and add slicers for filtering by region and category.
3. **DAX and Calculated Measures**
   * Write a DAX formula to calculate the cumulative total sales over time.
   * Create a measure to find the average quantity sold per transaction.
   * Define a DAX measure to calculate the percentage contribution of each product to the total sales.

This is data set

