**1. Group products by their categories and count the number of products in each category, but only include categories with more than 5 products.**

* Use the Products and Categories tables.
* Use GROUP BY, HAVING, and INNER JOIN.

*Hint*: You’ll need to group products by category, count the number of products, and filter using HAVING to show categories with more than 5 products.

**2. Retrieve a list of all customers who have placed orders, and for each customer, show the total order value. Only include customers whose total order value is between $500 and $1,000.**

* Use the Customers and Orders tables.
* Use LEFT JOIN, GROUP BY, HAVING, and BETWEEN.

*Hint*: Perform a LEFT JOIN between Customers and Orders, group the results by customer, calculate the total value of their orders, and filter the results using HAVING and BETWEEN.

**3. List all orders placed in 2024, along with their customer details. Sort the results in descending order based on the order date.**

* Use the Orders and Customers tables.
* Use INNER JOIN, ORDER BY, and BETWEEN.

*Hint*: Use INNER JOIN to combine Orders and Customers, filter orders that were placed in 2024 using BETWEEN, and sort the result by ORDER BY the OrderDate in descending order.

**4. Find all suppliers whose names start with the letter 'A' and display the total number of products they supply.**

* Use the Suppliers and Products tables.
* Use LEFT JOIN, GROUP BY, and LIKE.

*Hint*: Use LEFT JOIN to combine suppliers with products, group by supplier, filter suppliers whose name starts with 'A' using LIKE, and count the total number of products they supply.

**5. Retrieve all products and their categories, even if they don’t have a category assigned. Show the results sorted by product name and only include products that have 'phone' in their name.**

* Use the Products and Categories tables.
* Use LEFT JOIN, ORDER BY, and LIKE.

*Hint*: Use LEFT JOIN to show products with and without categories, filter products containing 'phone' using LIKE, and sort the results alphabetically by product name using ORDER BY.