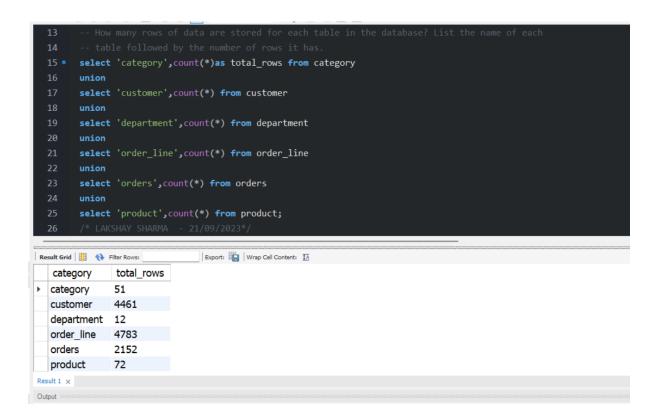
TERPBUY Data Science- PROJECT

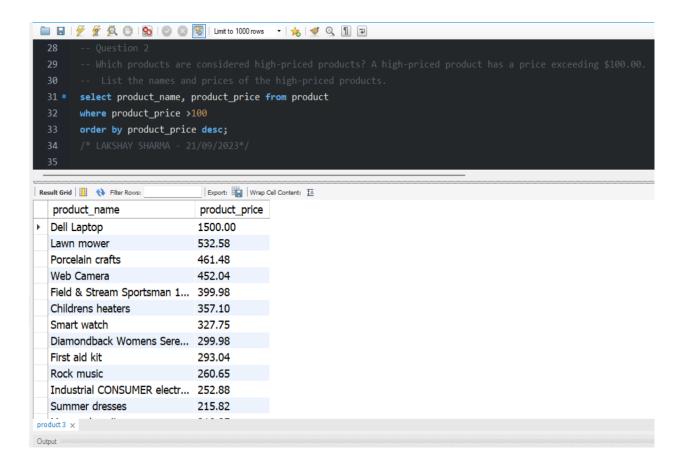
University of Maryland

By: Lakshay Sharma

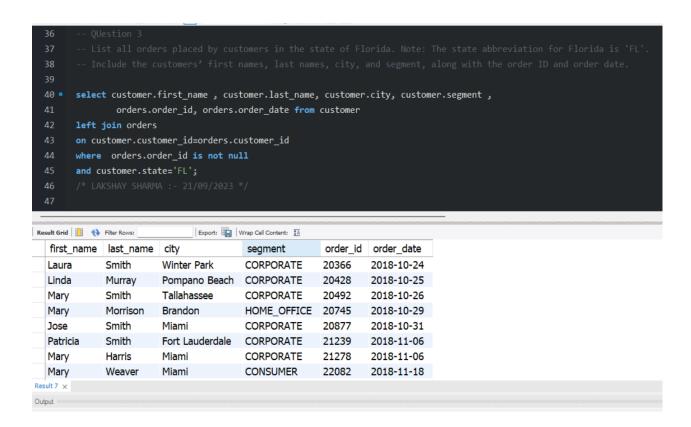
Question 1 : How many rows of data are stored for each table in the database? List the name of each table followed by the number of rows it has.



Question 2: Which products are considered high-priced products? A high-priced product has a price exceeding \$100.00. List the names and prices of the high-priced products.



Question 3: List all orders placed by customers in the state of Florida. Note: The state abbreviation for Florida is 'FL'. Include the customers' first names, last names, city, and segment, along with the order ID and order date.



Question 4: List all products that fall in one of the following categories: 'Computers', 'Toys', 'Tennis & Racquet'. Include the products' names, category, department, and price.

```
select product.product_name, category.category_name,department.department_name,product.product_price
      from product
      left join category
 on product.category_id= category.category_id
     left join department
      on product.department_id = department.department_id
      where category_name in('computers','toys','tennis & racquet');
Export: Wrap Cell Content: IA
                  category_name department_name product_price
  product_name
Nike Mens Comfort 2 Slide Tennis & Racq... Fitness
                                                      44.99
  Dell Laptop Computers Technology
                                                      1500.00
  Toys
                        Toys
                                      Fan Shop
                                                      11.54
```

Result 11 ×

Question 5 : TerpBuy is considering reducing its product offerings. Which products have not yet been sold? Include the name, category, and department for each such product

```
-- Question 5
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-- Include the name, category, and department for each such product

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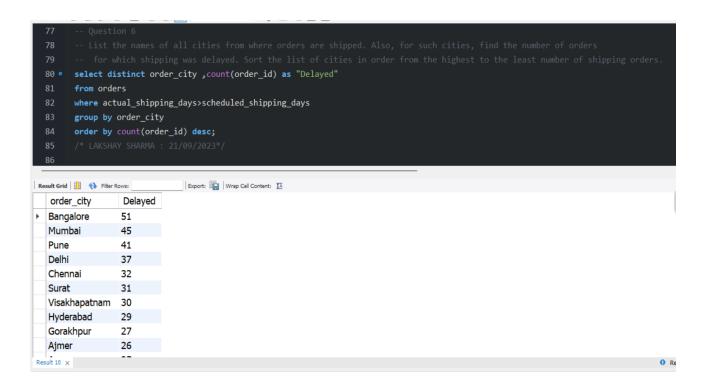
-- Include the name, category, and department_name, category.category_name from product

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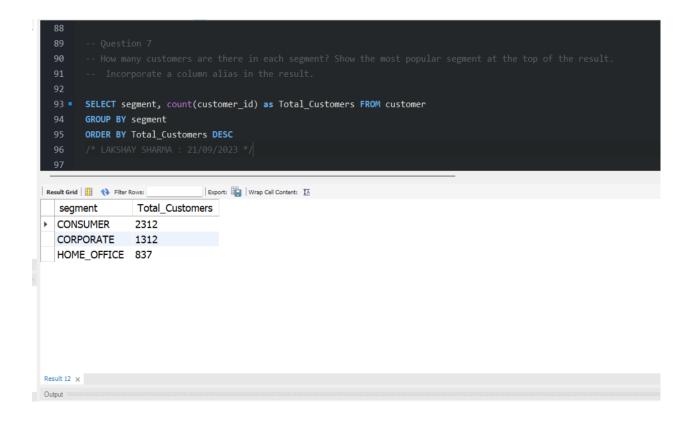
-- Include the name, category_name from product

-- Include the name, category_n
```

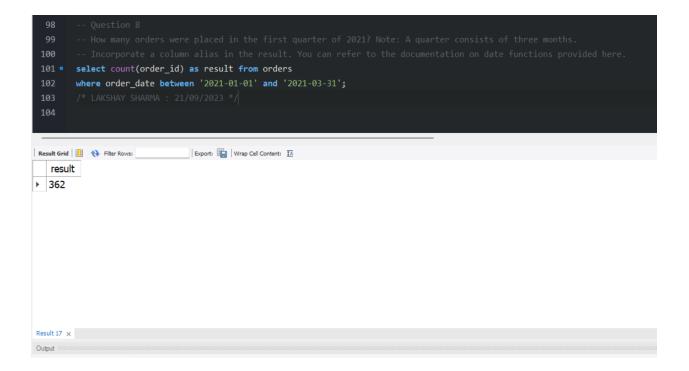
Question 6: List the names of all cities from where orders are shipped. Also, for such cities, find the number of orders for which shipping was delayed. Sort the list of cities in order from the highest to the least number of shipping orders.



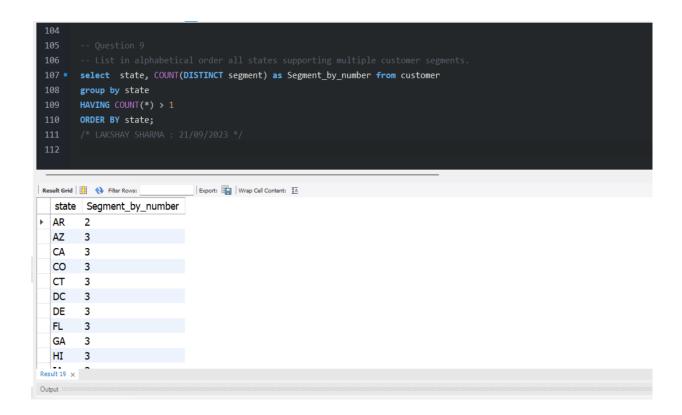
Question 7: How many customers are there in each segment? Show the most popular segment at the top of the result. Incorporate a column alias in the result.



Question 8: How many orders were placed in the first quarter of 2021? Note: A quarter consists of three months. Incorporate a column alias in the result. You can refer to the documentation on date functions provided here.



Question 9: List in alphabetical order all states supporting multiple customer segments.



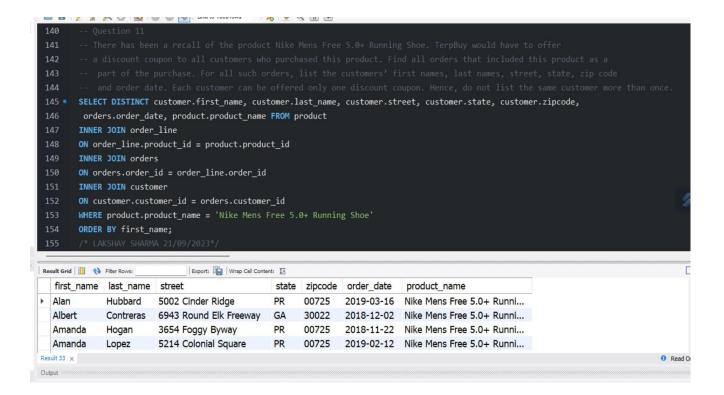
Question 10: To help the commercial sales department with its marketing, find all customers in the corporate segment who have not placed any orders. Include each customers' first name, last name, street, city, state, and zip code. Sort the results by the last name first and then by the first name.



Question 11: There has been a recall of the product Nike Mens Free 5.0+ Running Shoe.

TerpBuy would have to offer a discount coupon to all customers who purchased this product.

Find all orders that included this product as a part of the purchase. For all such orders, list the customers' first names, last names, street, state, zip code, and order date. Each customer can be offered only one discount coupon. Hence, do not list the same customer more than once.



Question 12: Premium customers are those customers who have placed orders with order amounts greater than the average order amount. For each customer, find the first and last names, and the order amount for all orders that exceeded the average order amount.

