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CS 6314.001

Query 1: Write a query to display the product names (from the Products table) that start with 'ch' or end with 'ger'.
```
SELECT ProductName
FROM Products
WHERE ProductName LIKE 'ch%' OR ProductName LIKE '%ger';
```

Query 2: Write a query to display the CustomerNames (from the customer table) that live in the US or Mexico. Sort the results based on the CustomerName.
```
SELECT CustomerName
FROM Customers
WHERE Country = 'USA' OR Country = 'Mexico'
ORDER BY CustomerName;
```

Query 3: Write a query to display the number of suppliers (from the supplier table) for each country.
```
SELECT COUNT(*), Country
FROM Suppliers
GROUP BY Country;
```

Query4: Write a query to display the CustomerNames and the number of orders for the customers who have at least two orders.
```
SELECT Customers.CustomerName, COUNT(Orders.OrderID) AS NumberOfOrders
FROM Customers
INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID
GROUP BY Customers.CustomerName
HAVING COUNT(Orders.OrderID) >= 2;
```

Query5: Write a query to display customer name, orderID, and productID for the orders that have more than one product.
```
SELECT Customers.CustomerName, Orders.OrderID, OrderDetails.ProductID
FROM (Customers
INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID)
INNER JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID
WHERE Orders.OrderID IN (
    SELECT OrderID
    FROM OrderDetails
    GROUP BY OrderID
    HAVING COUNT(ProductID) > 1
);
```

Query6: Write a query to display the name of the products that their name starts with S and their price is less than $20.
SELECT ProductName
FROM Products
WHERE ProductName LIKE 'S%' AND Price < 20;

Query7: Write a query to display the CustomerName that has the cheapest order.
SELECT Customers.CustomerName
FROM (Customers
INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID)
INNER JOIN (
    SELECT OrderDetails.OrderID, SUM(Products.Price) AS TotalPrice
    FROM OrderDetails
    INNER JOIN Products ON OrderDetails.ProductID = Products.ProductID
    GROUP BY OrderDetails.OrderID)
AS OrderTotals ON Orders.OrderID = OrderTotals.OrderID
WHERE OrderTotals.TotalPrice = (
    SELECT MIN(TotalPrice)
    FROM (
        SELECT OrderDetails.OrderID, SUM(Products.Price) AS TotalPrice
        FROM OrderDetails
        INNER JOIN Products ON OrderDetails.ProductID = Products.ProductID
        GROUP BY OrderDetails.OrderID)
AS MinTotals);