18. File upload SQL question

If you have the following tables already, DROP them before proceeding.

**(NOTE: You might have to enter the values one record at a time, as our SQL does not seem to allow multiple rows to be entered... Please keep that in mind)**

Generate the following tables:

CREATE TABLE Customers (  
    CustomerID INT PRIMARY KEY,  
    CustomerName VARCHAR(50)  
);

CREATE TABLE Orders (  
    OrderID INT PRIMARY KEY,  
    CustomerID INT,  
    OrderDate DATE  
);

INSERT INTO Customers (CustomerID, CustomerName)  
VALUES  
    (1, 'John Doe'),  
    (2, 'Jane Smith'),  
    (3, 'Bob Johnson');

INSERT INTO Orders (OrderID, CustomerID, OrderDate)  
VALUES  
    (101, 1, '2023-01-15'),  
    (102, 2, '2023-02-10'),  
    (103, 1, '2023-03-05'),  
    (104, 3, '2023-04-20');

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Description automatically generated

1. Write a SQL query to retrieve a list of all customers and their order count, including customers who have not placed any orders. Use a LEFT JOIN between 'Customers' and 'Orders' tables to get this result.

SELECT c.CustomerName, COUNT(o.OrderId) AS order\_count

FROM customers c

LEFT JOIN orders o

ON c.CustomerId = o.CustomerId

GROUP BY c.CustomerName;

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1. Write a SQL query to retrieve the names of customers who have placed orders in February 2023

SELECT DISTINCT c.CustomerName, o.OrderDate

FROM customers c

INNER JOIN Orders o

ON c.CustomerId = o.CustomerId

WHERE EXTRACT(MONTH FROM O.OrderDate) = 2 AND EXTRACT(YEAR FROM O.OrderDate) = 2023;

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Description automatically generated

1. Write a SQL query to find the total number of orders placed in April 2023.

SELECT OrderDate, COUNT(\*) AS Total\_Orders

FROM Orders

WHERE EXTRACT(MONTH FROM OrderDate) = 4 AND EXTRACT(YEAR FROM OrderDate) = 2023

GROUP BY OrderDate

ORDER BY OrderDate;

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1. Write a SQL query to find the names of the customers who have not placed any orders.

SELECT c.CustomerName, o.OrderDate

FROM Customers c

LEFT JOIN Orders o

ON c.CustomerId = o.CustomerId

WHERE o.OrderID IS NULL;

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1. Write a query to find the customer who was the first one to place an order.

SELECT c.CustomerName, o.OrderDate

FROM Customers c

JOIN Orders o

ON c.CustomerId = o.CustomerId

ORDER BY o.OrderDate ASC

FETCH FIRST 1 ROW ONLY;

