Summer 2022 Data Science Intern Challenge

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Question 2: For this question you'll need to use SQL. Follow this link to access the data set required for the challenge. Please use queries to answer the following questions. Paste your queries along with your final numerical answers below.

   a. How many orders were shipped by Speedy Express in total?
   b. What is the last name of the employee with the most orders?
   c. What product was ordered the most by customers in Germany?

Answers:

a) How many orders were shipped by Speedy Express in total?

Answer:

SELECT COUNT(OrderID) FROM Orders

WHERE ShipperID = (SELECT ShipperID FROM Shippers

WHERE ShipperName = 'Speedy Express');

Output: 54

b) What is the last name of the employee with the most orders?

Answer:

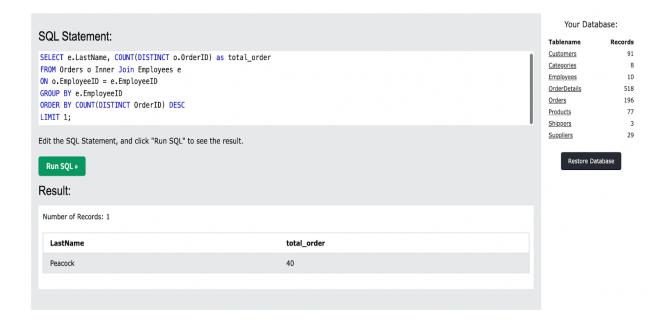SELECT e.LastName, COUNT(DISTINCT o.OrderID) as total_order
FROM Orders o
Inner Join Employees e ON o.EmployeeID = e.EmployeeID
GROUP BY e.EmployeeID
ORDER BY COUNT(DISTINCT OrderID) DESC LIMIT 1;

Output: Peacock (No of orders is 40)

SQL Statement:

```
SELECT e.LastName, COUNT(DISTINCT o.OrderID) as total_order
FROM Orders o Inner Join Employees e
ON o.EmployeeID = e.EmployeeID
GROUP BY e.EmployeeID
ORDER BY COUNT(DISTINCT OrderID) DESC
LIMIT 1;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 1

LastName	total_order
Peacock	40

Your Database:

Tablename	Records
Customers	91
Categories	8
Employees	10
OrderDetails	518
Orders	196
Products	77
Shippers	3
Suppliers	29

Restore Database

c) What product was ordered the most by customers in Germany?

Answer:

SELECT Products.ProductName FROM Orders
INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
INNER JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID
INNER JOIN Products ON OrderDetails.ProductID = Products.ProductID
WHERE Customers.Country = 'Germany'
GROUP BY Products.ProductName
ORDER BY COUNT(Products.ProductName) DESC LIMIT 1;

Output: Gorgonzola Telino

SQL Statement:

```sql
SELECT Products.ProductName FROM Orders
INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
INNER JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID
INNER JOIN Products ON OrderDetails.ProductID = Products.ProductID
WHERE Customers.Country = 'Germany'
GROUP BY Products.ProductName ORDER BY COUNT(Products.ProductName) DESC LIMIT 1;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 1

ProductName
Gorgonzola Telino

Your Database:

Tablename	Records
Customers	91
Categories	8
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OrderDetails	518
Orders	196
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