

Shopify Data Science Challenge

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?

```
SELECT ShipperName, COUNT(Orders.ShipperID)
FROM Orders
INNER JOIN (select * from Shippers where shippername = 'Speedy Express')
as shippers ON Orders.ShipperID = Shippers.ShipperID
GROUP BY Orders.ShipperID;
```

Speedy Expresss has made 54 shipping

SQL Statement:

```
SELECT ShipperName, COUNT(Orders.ShipperID)
FROM Orders
INNER JOIN (select * from Shippers where shippername = 'Speedy Express') as shippers ON Orders.ShipperID =
Shippers.ShipperID
GROUP BY Orders.ShipperID
;
```

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

Run SQL »

Result:

Number of Records: 1

ShipperName	COUNT(Orders.ShipperID)
Speedy Express	54

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

```
SELECT LastName, COUNT(Orders.OrderID) as count_of_orders
FROM Orders
INNER JOIN Employees ON Orders.EmployeeID = Employees.EmployeeID
GROUP BY Orders.EmployeeID
Order by COUNT(Orders.EmployeeID) Desc;
```

Peacock is the last-name of the employee who has placed more orders.

SQL Statement:

```
SELECT LastName, COUNT(Orders.OrderID) as count_of_orders
FROM Orders
INNER JOIN Employees ON Orders.EmployeeID = Employees.EmployeeID
GROUP BY Orders.EmployeeID
Order by COUNT(Orders.EmployeeID) Desc;
```

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

Run SQL »

Result:

Number of Records: 9

LastName	count_of_orders
Peacock	40
Leverling	31
Davolio	29
Callahan	27
Fuller	20
Suyama	18
King	14
Buchanan	11
Dodsworth	6

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

```
SELECT ProductName, MAX(ProductCount)
FROM (
    SELECT Products.ProductName as ProductName,
    COUNT(Products.ProductName) as ProductCount
    FROM Orders
    INNER JOIN Customers ON
Orders.CustomerID=Customers.CustomerID
    INNER JOIN OrderDetails ON
Orders.OrderID=OrderDetails.OrderID
    INNER JOIN Products ON
Products.ProductID=OrderDetails.ProductID
    WHERE Country = 'Germany'
    GROUP BY Products.ProductName
    Order by COUNT(Products.ProductName) Desc
);
```

SQL Statement:

```
SELECT ProductName, MAX(ProductCount)
FROM (
    SELECT Products.ProductName as ProductName, COUNT(Products.ProductName) as ProductCount
    FROM Orders
    INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID
    INNER JOIN OrderDetails ON Orders.OrderID=OrderDetails.OrderID
```

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

Run SQL »

Result:

Number of Records: 1

ProductName	MAX(ProductCount)
Gorgonzola Telino	5

If we **are** interested in the quantity of the product

```

SELECT ProductName, MAX(Quantity)
FROM(
    SELECT Products.ProductName as ProductName,
    OrderDetails.Quantity
    FROM Orders
    INNER JOIN Customers ON
Orders.CustomerID=Customers.CustomerID
    INNER JOIN OrderDetails ON
Orders.OrderID=OrderDetails.OrderID
    INNER JOIN Products ON
Products.ProductID=OrderDetails.ProductID
    WHERE Country = 'Germany'
    Group By Products.ProductID
    Order by OrderDetails.Quantity Desc);

```

SQL Statement:

```

SELECT ProductName, MAX(Quantity)
FROM(
    SELECT Products.ProductName as ProductName, OrderDetails.Quantity
    FROM Orders
    INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID
    INNER JOIN OrderDetails ON Orders.OrderID=OrderDetails.OrderID

```

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

Run SQL »

Result:

Number of Records: 1

ProductName	MAX(Quantity)
Steeleye Stout	100