

Summer 2022 Data Science Intern 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 COUNT(*) AS 'Total Orders'  
FROM Orders;
```

Result:

Number of Records: 1

'Total Orders'
196

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

```
SELECT TOP 1 LastName, COUNT(*) AS 'Total Orders'  
FROM Employees INNER JOIN Orders  
    ON Employees.EmployeeID = Orders.EmployeeID  
GROUP BY LastName  
ORDER BY COUNT(*) DESC
```

Result:

Number of Records: 1

LastName	'Total Orders'
Peacock	40

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

The most individual orders were placed for Gorgonzola Telino

```
SELECT TOP 1 ProductName, OrderDetails.ProductID,  
            SUM(Quantity) AS 'Total Quantity',  
            COUNT(*) AS 'Total Orders'  
FROM (((Customers  
      INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID)  
      INNER JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID)  
      INNER JOIN Products ON Products.ProductID = OrderDetails.ProductID)  
WHERE Country = 'Germany'  
GROUP BY OrderDetails.ProductID, ProductName  
ORDER BY COUNT(*) DESC
```

Result:

Number of Records: 1

ProductName	ProductID	'Total Quantity'	'Total Orders'
Gorgonzola Telino	31	125	5

The largest product quantity ordered was Boston Crab Meat:

```
SELECT TOP 1 ProductName, OrderDetails.ProductID,  
            SUM(Quantity) AS 'Total Quantity',  
            COUNT(*) AS 'Total Orders'  
FROM (((Customers  
      INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID)  
      INNER JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID)  
      INNER JOIN Products ON Products.ProductID = OrderDetails.ProductID)  
WHERE Country = 'Germany'  
GROUP BY OrderDetails.ProductID, ProductName  
ORDER BY SUM(Quantity) DESC
```

Result:

Number of Records: 1

ProductName	ProductID	'Total Quantity'	'Total Orders'
Boston Crab Meat	40	160	4