

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.

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

How many orders were shipped by Speedy Express in total?

```
SELECT SUM(ShipperID) FROM [Orders] WHERE Orders.ShipperID == (SELECT ShipperID from [Shippers] where Shippers.ShipperName == "Speedy Express")
```

Output: 54

Speedy express had a total of 54 orders shipped

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

```
SELECT Orders.EmployeeID, LastName, count(Orders.OrderID) FROM [Employees]  
INNER JOIN Orders ON Employees.EmployeeID=Orders.EmployeeID  
GROUP BY Orders.EmployeeID  
ORDER BY COUNT(Orders.OrderID) DESC LIMIT 1
```

Output: Peacock

What product was ordered the most by customers in Germany?

```
SELECT  
Products.ProductID,ProductName,Country,SUM(OrderDetails.Quantity),COUNT(Products.ProductID)  
FROM (Customers INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID  
      INNER JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID  
      INNER JOIN Products ON OrderDetails.ProductID = Products.ProductID)  
WHERE Country IN ("Germany")  
GROUP BY Products.ProductID
```

```
ORDER BY COUNT(Products.ProductID) DESC LIMIT 1
```

Most products ordered with regards to number of transactions:

Output: ProductName = Gorgonzola Telino, ProductID = 31

The product that was ordered the most by customers in Germany was Gorgonzola Telino (ProductID = 31), with a total of 5 orders (number of transactions).

Most products ordered with regards to Quantity of items:

```
SELECT  
Products.ProductID,ProductName,Country,SUM(OrderDetails.Quantity),COUNT(Products.ProductID)
```

```
FROM (Customers INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID  
  
      INNER JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID  
  
      INNER JOIN Products ON OrderDetails.ProductID = Products.ProductID)  
  
WHERE Country IN ("Germany")  
  
GROUP BY Products.ProductID  
  
ORDER BY SUM(OrderDetails.Quantity) DESC LIMIT 1
```

Output: ProductName = Boston Crab Meat, ProductID = 40

The product that was ordered the most by customers in Germany was Boston Crab Meat (ProductID = 40), with a total of 160 orders (quantity of items).