

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?

For this problem I needed to join my Orders and Shippers table to access both the OrderID and ShipperName. I joined them on ShipperID and got the amount of orders shipped by Speedy Express.

```
SELECT COUNT(Orders.OrderID) AS NumberOfOrders
FROM Orders
LEFT JOIN Shippers ON Orders.ShipperID = Shippers.ShipperID
WHERE ShipperName = "Speedy Express";
```

Answer: 54

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

For this problem I decided to create a CTE which took the number of orders and EmployeeID from our Orders dataset. I used this CTE to return the employee with the highest sales.

```
WITH COUNT_ORDERS AS (
SELECT COUNT(*) as ORDER_COUNT, EmployeeID
FROM Orders
GROUP BY EmployeeID
)

SELECT LastName, MAX(COUNT_ORDERS.ORDER_COUNT)
FROM COUNT_ORDERS
JOIN Employees
    ON Employees.EmployeeID = COUNT_ORDERS.EmployeeID;
```

Answer: Peacock, 40 Orders

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

For this problem I first listed each element required from each dataset.

Orderdetails - ProductID AND Quantity AND OrderID
Customers - CustomerID and Country
Orders - CustomerID and OrderID
Products - ProductName and Product ID

I proceeded to join the four tables, specified that the country must be "Germany" and returned the product with the most sales.

```
SELECT ProductName, SUM(Quantity) AS "Total"
FROM OrderDetails
JOIN Products
    ON OrderDetails.ProductID = Products.ProductID
JOIN Orders
    ON OrderDetails.OrderID = Orders.OrderID
JOIN Customers
    ON Customers.CustomerID = Orders.CustomerID
WHERE Country = "Germany"
GROUP BY ProductName
ORDER BY Total DESC
Limit 1;
```

Answer: Boston Crab Meat, 160 units