

Fall 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?

Answer: **54**

```
SELECT COUNT(*), Orders.shipperid, Shippers.shippername
FROM Orders
INNER JOIN Shippers ON Orders.shipperID=Shippers.shipperID
WHERE Shippers.shippername = "Speedy Express";
```

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

Answer: **Peacock**

```
WITH employee_max_orders AS (SELECT COUNT(*) AS order_count,
Orders.employeeid
FROM Orders
GROUP BY Orders.employeeid
ORDER BY order_count DESC LIMIT 1)

SELECT Employees.LastName
FROM employee_max_orders JOIN Employees ON Employees.Employeeid
= employee_max_orders.employeeid;
```

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

Answer: **Boston Crab Meat**

```
WITH GermanOrders AS (SELECT * FROM Orders WHERE Orders.OrderID
in (SELECT Orders.OrderID FROM Orders JOIN Customers on
Orders.CustomerID = Customers.CustomerID WHERE
Customers.Country = 'Germany'))

SELECT SUM(OrderDetails.Quantity) AS TotalQuantity,
OrderDetails.ProductID, Products.ProductName FROM OrderDetails
JOIN GermanOrders ON GermanOrders.OrderID =
OrderDetails.OrderID
JOIN Products ON OrderDetails.ProductID = Products.ProductID
GROUP BY OrderDetails.ProductID
ORDER BY TotalQuantity DESC;
```