

Winter 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

SQL Query:

```
SELECT COUNT(OrderID)
FROM Orders
WHERE ShipperID IN (SELECT ShipperID FROM [Shippers]
WHERE ShipperName='Speedy Express'
)
```

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

Answer: 'Peacock'

SQL Query:

```
SELECT
    Employees.LastName
FROM
    Employees
WHERE
    EmployeeID IN(SELECT EmployeeID
FROM
    (SELECT EmployeeID, COUNT(DISTINCT OrderID) as
total_order
FROM Orders
GROUP BY EmployeeID
ORDER BY total_order DESC)
LIMIT 1)
```

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

Answer: 'Boston Crab Meat'

SQL Query:

```
SELECT
    Products.ProductName as
most_ordered_product_by_Germany_customers
FROM
    Customers
    LEFT JOIN Orders ON Customers.CustomerID= Orders.CustomerID
    LEFT JOIN OrderDetails ON Orders.OrderID = OrderDetails .OrderID
    LEFT JOIN Products ON OrderDetails.ProductID = Products.ProductID
WHERE
    Customers.Country = 'Germany'
GROUP BY
    ProductName
ORDER BY
    SUM(OrderDetails.Quantity) DESC
LIMIT 1
```
