

Summer 2022 Data Science Intern Challenge at Shopify

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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?

Query:

```
SELECT COUNT(*)  
FROM Orders  
INNER JOIN Shippers  
ON Orders.ShipperID = Shippers.ShipperID  
WHERE ShipperName = "Speedy Express"
```

Returns: 54

Therefore, **54** orders were shipped by Speedy Express.

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

Query:

```
SELECT Employees.LastName,  
COUNT( * ) as NumberOfOrders  
FROM Orders  
INNER JOIN Employees  
ON Employees.EmployeeID=Orders.EmployeeID  
GROUP BY Employees.EmployeeID  
ORDER BY NumberOfOrders DESC  
limit 1;
```

Returns: Peacock

Therefore, the last name of the employee with most orders is **Peacock**.

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

Query:

```
SELECT Products.ProductName, SUM(OrderDetails.Quantity) as TotalQuantityOrdered
FROM Orders
INNER JOIN OrderDetails on Orders.OrderID = OrderDetails.OrderID
INNER JOIN Customers on Orders.CustomerID = Customers.CustomerID
INNER JOIN Products on OrderDetails.ProductID = Products.ProductID
WHERE Country = "Germany"
GROUP BY OrderDetails.ProductID
ORDER BY TotalQuantityOrdered DESC
limit 1;
```

Returns: Boston Crab Meat

Therefore, the product that was ordered the most by customers in Germany was **Boston Crab Meat**.