

Data Science Internship Challenge

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Question -

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?

Answers -

a) How many orders were shipped by Speedy Express in total?

Answer:

```
SELECT COUNT(OrderID) FROM Orders
```

```
WHERE ShipperID = (SELECT ShipperID FROM Shippers WHERE
```

```
ShipperName = 'Speedy Express');
```

SQL Statement:

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

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 1

COUNT(OrderID)

54

Output: 54

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

Answer:

SELECT LastName

FROM Orders a JOIN Employees b ON a.EmployeeID = b.EmployeeID

GROUP BY a.EmployeeID

ORDER BY COUNT(*) DESC

LIMIT 1

SQL Statement:

```
SELECT LastName |
FROM Orders a JOIN Employees b ON a.EmployeeID = b.EmployeeID
GROUP BY a.EmployeeID
ORDER BY COUNT(*) DESC
LIMIT 1
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 1

LastName

Peacock

Output: Peacock (No of orders is 40)

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

Answer:

```
SELECT ProductName FROM Products
WHERE ProductID IN (SELECT TOP 1 ProductID FROM OrderDetails
WHERE OrderID IN (
SELECT OrderID FROM Orders
WHERE CustomerID IN (SELECT CustomerID FROM Customers
WHERE Country = 'Germany'))
GROUP BY ProductID
ORDER BY COUNT(OrderDetailID) DESC);
```

SQL Statement:

```
SELECT ProductName
FROM Orders a JOIN Customers b ON a.CustomerID = b.CustomerID
JOIN OrderDetails c ON a.OrderID = c.OrderID
JOIN Products d ON d.ProductID = c.ProductID
WHERE Country='Germany'
ORDER BY Quantity DESC
LIMIT 1
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 1

ProductName

Steeleye Stout

Output: Steeleye Stout (Number of Records:1)