

# Summer 2022 Data Science Intern Challenge

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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.

- 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');
```

Output: 54

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

Your Database:

Tablename	Records
<a href="#">Customers</a>	91
<a href="#">Categories</a>	8
<a href="#">Employees</a>	10
<a href="#">OrderDetails</a>	518
<a href="#">Orders</a>	196
<a href="#">Products</a>	77
<a href="#">Shippers</a>	3
<a href="#">Suppliers</a>	29

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

Answer:

```
SELECT e.LastName, COUNT(DISTINCT o.OrderID) as total_order
FROM Orders o
Inner Join Employees e ON o.EmployeeID = e.EmployeeID
GROUP BY e.EmployeeID
ORDER BY COUNT(DISTINCT OrderID) DESC LIMIT 1;
```

Output: Peacock (No of orders is 40)

SQL Statement:

```
SELECT e.LastName, COUNT(DISTINCT o.OrderID) as total_order
FROM Orders o Inner Join Employees e
ON o.EmployeeID = e.EmployeeID
GROUP BY e.EmployeeID
ORDER BY COUNT(DISTINCT OrderID) DESC
LIMIT 1;
```

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

[Run SQL »](#)

Result:

Number of Records: 1

LastName	total_order
Peacock	40

Your Database:

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

Answer:

```
SELECT Products.ProductName FROM Orders
INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
INNER JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID
INNER JOIN Products ON OrderDetails.ProductID = Products.ProductID
WHERE Customers.Country = 'Germany'
GROUP BY Products.ProductName
ORDER BY COUNT(Products.ProductName) DESC LIMIT 1;
```

Output: Gorgonzola Telino

### SQL Statement:

```
SELECT Products.ProductName FROM Orders
INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
INNER JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID
INNER JOIN Products ON OrderDetails.ProductID = Products.ProductID
WHERE Customers.Country = 'Germany'
GROUP BY Products.ProductName ORDER BY COUNT(Products.ProductName) DESC LIMIT 1;
```

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

Run SQL »

### Result:

Number of Records: 1

ProductName
-------------

Gorgonzola Telino
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### Your Database:

Tablename	Records
<a href="#">Customers</a>	91
<a href="#">Categories</a>	8
<a href="#">Employees</a>	10
<a href="#">OrderDetails</a>	518
<a href="#">Orders</a>	196
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