

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(orderID) as ORDER_COUNT
FROM Orders O
JOIN Shippers S
ON O.ShipperID = S.ShipperID
and S.ShipperName = 'Speedy Express';
```

The screenshot shows a web-based SQL editor. The 'SQL Statement' field contains the query: `SELECT count(orderID) as ORDER_COUNT FROM Orders O JOIN Shippers S ON O.ShipperID = S.ShipperID and S.ShipperName = 'Speedy Express';`. Below the query is a 'Run SQL' button. The 'Result' section shows 'Number of Records: 1' and a table with one row:

ORDER_COUNT
54

. On the right, a sidebar titled 'Your Database:' lists tables and their record counts: Customers (91), Categories (8), Employees (10), OrderDetails (518), Orders (196), Products (77), Shippers (3), and Suppliers (29). There is also an 'Upgrade to Pro' advertisement.

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

Answer : Peacock

```
SELECT LastName
FROM Orders O
JOIN Employees E
ON O.EmployeeID = E.EmployeeID
Group by E.LastName
Order by COUNT(O.ORDERID) Desc limit 1;
```

The screenshot shows the same SQL editor. The 'SQL Statement' field contains the query: `SELECT LastName FROM Orders O JOIN Employees E ON O.EmployeeID = E.EmployeeID Group by E.LastName Order by COUNT(O.ORDERID) Desc limit 1;`. The 'Run SQL' button is visible. The 'Result' section shows 'Number of Records: 1' and a table with one row:

LastName
Peacock

. The right sidebar is identical to the previous screenshot, showing the database schema and an advertisement.

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

Answer : Gorgonzola Telino

```
SELECT P.ProductName
FROM Orders O
JOIN OrderDetails OD ON O.OrderID = OD.OrderID
JOIN Products P ON OD.ProductID = P.ProductID
JOIN Customers C ON C.CustomerID = O.CustomerID and C.Country='Germany'
Group by P.ProductName,C.Country
Order by COUNT(O.OrderID)
Desc limit 1 ;
```

SQL Statement:

```
SELECT P.ProductName
FROM Orders O
JOIN OrderDetails OD ON O.OrderID = OD.OrderID
JOIN Products P ON OD.ProductID = P.ProductID
JOIN Customers C ON C.CustomerID = O.CustomerID and C.Country='Germany'
Group by P.ProductName,C.Country Order by COUNT(O.OrderID) 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

Your Database:

Tablename	Records
Customers	91
Categories	8
Employees	10
OrderDetails	518
Orders	196
Products	77
Shippers	3
Suppliers	29

Restore Database

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