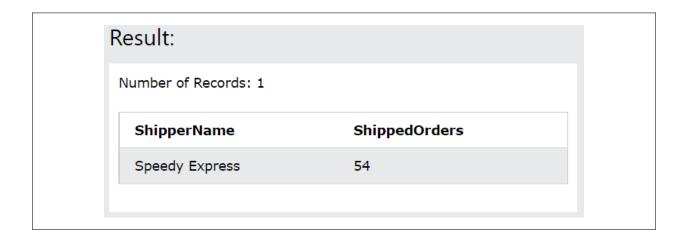Shopify Data Science Challenge Summer 2022
SQL Questions

Author: Joshua Xu

January 9, 2022

1 Question 1

Q: How many orders were shipped by Speedy Express in total?

```sql
SELECT s.ShipperName, COUNT(o.ShipperID) as ShippedOrders
FROM Orders o
JOIN Shippers s ON s.ShipperID = o.ShipperID
WHERE s.ShipperName = 'Speedy Express';
```
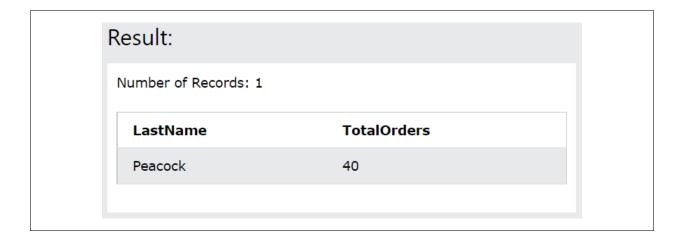
Result:

Number of Records: 1

ShipperName	ShippedOrders
Speedy Express	54

A: The total number of shipped orders by Speedy Express is **54 orders**.

2   Question 2

Q: What is the last name of the employee with the most orders?

```sql
SELECT e.LastName, COUNT(o.EmployeeID) as TotalOrders
FROM Employees e
JOIN Orders o ON o.EmployeeID = e.EmployeeID
GROUP BY e.LastName
ORDER BY TotalOrders DESC LIMIT 1
```
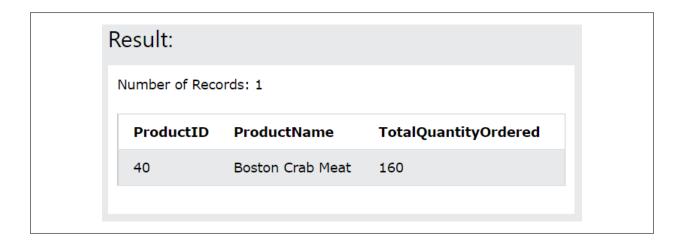
Result:

Number of Records: 1

LastName	TotalOrders
Peacock	40

A: The last name of the employee with the most orders is **Peacock**, with a total of **40 orders**.

3   Question 3

Q: What product was ordered the most by customers in Germany?

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

Result:

Number of Records: 1

ProductID	ProductName	TotalQuantityOrdered
40	Boston Crab Meat	160

A: The most ordered product by customers in Germany is **Boston Crab Meat**, with a total quantity ordered of **160**.