

Winter 2022 Data Science Intern Challenge

Question 2

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How many orders were shipped by Speedy Express in total?

```
SELECT
COUNT(OrderID)
FROM
Orders
JOIN Shippers
ON Orders.ShipperID = Shippers.ShipperID AND Shippers.ShipperName == 'Speedy Express';
```

Output: 54

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

```
SELECT LastName FROM Employees
JOIN
(SELECT *, COUNT(EmployeeID) DESC FROM Orders
GROUP BY EmployeeID
LIMIT 1) t ON t.EmployeeID=Employees.EmployeeID;
```

Output: Davolio

What product was ordered the most by customers in Germany?

```
SELECT Country, Total_Per_Product, ProductName FROM
(SELECT * FROM Customers WHERE Country='Germany') d
JOIN
(SELECT * FROM Orders
JOIN
(SELECT * FROM Products
JOIN
(SELECT *, SUM(Quantity) Total_Per_Product FROM OrderDetails
GROUP BY ProductID) t ON Products.ProductID=t.ProductID) f
ON f.OrderID=Orders.orderID) x
ON d.CustomerID=x.CustomerID
ORDER BY Total_Per_Product DESC
LIMIT 1;
```

Output: Boston Crab Meat

- If you were to open a Shopify store, what would you sell and why (or tell us about your store if you have one!) (200 word limit)

I would love to open a store which sells different cups with different sizes, shapes and patterns on the outside as decoration. I think cups are what people have at hand all the time and therefore the customers might want their cups to have different functions, different weights, different materials, as well as cater to different artistic tastes. It would be great if the customers can buy the custom-made cups with the printing of their favorite photo on the outside, in the color they want, and with the perfect size for their drink.

- Any last thoughts? (ie. proud accomplishments, cool ideas, a joke, etc.) (200 word limit)

I am quite proud of myself that I got my Master degree at Uppsala University last year and learned quite a lot about data science and programming. I am a quick learner and a dedicated team player. For instance, I was required to learn and apply Elasticsearch tools to build a search engine for my first internship, and use R to do web scraping work for the second internship. Also, I am a very motivated person who enjoys eating healthy and jogging regularly. A healthy lifestyle helps me stay energetic for quick learning as well as good performance.