Brandon Goh
Sept 1, 2020

Winter 2021 Data Science Intern Challenge

Please complete the following questions, and provide your thought process/work. You can attach your work in a text file, link, etc. on the application page. Please ensure answers are easily visible for reviewers!

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?*

   After inspecting the tables, I realized that both Shippers and Orders tables had the ShipperID in common. I went to the Orders table and found how many records had the same ShipperID and corresponded to the ShipperName (in Shippers table) of "Speedy Express".

   Answer: 54

```
SELECT COUNT(*)
FROM Shippers, Orders
WHERE Orders.ShipperID = Shippers.ShipperID
AND ShipperName = 'Speedy Express';
```

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

After inspecting the tables, I found that the correlation between the Orders and Employees tables was the EmployeeID. Then, I found where the EmployeeID matches the entries from both tables, grouped them by their ID and returned the most orders from sorting by descending order.

Answer: Peacock

```
SELECT employ.LastName
FROM Orders ords, Employees employ
WHERE employ.EmployeeID = ords.EmployeeID
GROUP BY ords.EmployeeID
ORDER BY COUNT(*) DESC
```

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```
LIMIT 1;
```

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

After inspecting the tables, the correlation from the CustomerID, OrderID and ProductID was used to find what product was ordered the most by customers in Germany.

Answer: Boston Crab Meat

```
FROM Products product, OrderDetails ordsdet, Customers cstmer, Orders ords
WHERE cstmer.Country = "Germany"
        AND cstmer.CustomerID = ords.CustomerID
        AND ords.OrderID = ordsdet.OrderID
   AND ordsdet.ProductID = product.ProductID
LIMIT 1;
```