Winter 2022 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. <u>Follow this link</u> 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?

SELECT COUNT(Orders.OrderID)
FROM [Orders]
INNER JOIN [Shippers] on Orders.ShipperID = Shippers.ShipperID
WHERE Shippers.ShipperName = "Speedy Express"

Answer: 54

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

SELECT Employees.LastName, Employees.EmployeeID

FROM [Employees]

INNER JOIN (SELECT MAX(OrderDetails.Quantity), Orders.EmployeeID

FROM [OrderDetails]

INNER JOIN [Orders]

ON OrderDetails.OrderID = Orders.OrderID) t1

ON t1.EmployeeID = Employees.EmployeeID

Answer: Fuller

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

SELECT t2.Country,MAX(t2.Quantity) AS Most_Ordered,Products.ProductName
FROM [Products]
INNER JOIN (SELECT Customers.Country, t1.ProductID, SUM(t1.Quantity) AS Quantity
FROM [Customers]
INNER JOIN (SELECT OrderDetails.OrderID, OrderDetails.ProductID,
OrderDetails.Quantity, Orders.CustomerID
FROM [OrderDetails]

INNER JOIN [Orders] ON OrderDetails.OrderID = Orders.OrderID) t1

ON Customers.CustomerID = t1.CustomerID

WHERE Customers.Country = "Germany"

GROUP BY t1.ProductID

ORDER BY Quantity) t2

ON t2.ProductID = Products.ProductID

Answer: Boston Crab Meat