

## Question 2

**a. How many orders were shipped by Speedy Express in total?**

```
SELECT COUNT(ShipperName) SE_Count
FROM (SELECT *
      FROM [Orders] o
      LEFT JOIN [Shippers] s
      ON s.ShipperID = o.ShipperID
      WHERE ShipperName = 'Speedy Express')
```

**Answer:** There were 54 orders shipped by Speedy Express

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

```
WITH employee_orders AS (SELECT EmployeeID, COUNT(*) NumOrders
                        FROM [Orders]
                        GROUP BY EmployeeID
                        ORDER BY NumOrders DESC)
SELECT LastName, NumOrders
FROM employee_orders eo
LEFT JOIN [Employees] e
ON eo.EmployeeID = e.EmployeeID
WHERE NumOrders = (SELECT MAX(NumOrders)
                  FROM employee_orders)
```

**Answer:** Peacock is the last name of the employee with the most orders (40)

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

```
WITH orders_countries AS (SELECT o.OrderID, o.CustomerID, c.Country
                        FROM [Orders] o
                        LEFT JOIN [Customers] c
                        ON o.CustomerID = c.CustomerID),
germany AS (SELECT ProductID, Country, SUM(Quantity) TotalQuantity
            FROM [OrderDetails] od
            LEFT JOIN orders_countries oc
            ON od.OrderID = oc.OrderID
            WHERE Country = 'Germany'
            GROUP BY Country, ProductID)
SELECT ProductName, Country, TotalQuantity
FROM germany g
LEFT JOIN [Products] p
ON g.ProductID = p.ProductID
WHERE TotalQuantity = (SELECT MAX(TotalQuantity)
                      FROM germany)
```

**Answer:** Boston Crab Meat was the product ordered the most by customers in Germany (160)

**Note:** This assumes that we sum quantity of product, not number of purchases