

Shopify Data science Challenge

SQL

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Questions

- How many orders were shipped by Speedy Express in total?
- What is the last name of the employee with the most orders?
- What product was ordered the most by customers in Germany?

Question 1 How many orders were shipped by Speedy Express in total?

```
SELECT COUNT(*) as 'number of orders: '  
FROM Shippers sh  
JOIN Orders o  
ON o.ShipperID = sh.ShipperID  
WHERE sh.ShipperName = 'Speedy Express';
```

Query Result: 54

Question 2 What is the last name of the employee with the most orders?

```
/* create the view seperately */  
  
CREATE VIEW count_orders_view AS  
SELECT e.EmployeeID, Count(o.OrderID) as "no_order"  
FROM Employees e  
JOIN Orders o  
ON e.EmployeeID = o.EmployeeID  
GROUP BY e.EmployeeID  
ORDER BY "no_order" DESC  
LIMIT 1;
```

```
/* get Employee's LastName */  
  
SELECT e.LastName  
FROM Employees e,  
count_orders_view v  
WHERE v.EmployeeID = e.EmployeeID;
```

Query Result : Peacock

Question 3 What product was ordered the most by customers in Germany?

```
/* All German Orders */
```

```
CREATE view german_orders_view AS
```

```
SELECT o.OrderID
FROM Orders o
JOIN Customers c
ON o.CustomerID = c.CustomerID
WHERE c.Country = 'Germany';
```

```
/* productID ordered the most in Germany */
```

```
CREATE VIEW prod_bought_in_germany_view AS
```

```
SELECT ProductID
FROM OrderDetails
WHERE orderID IN (SELECT orderID from german_orders_view)
GROUP BY ProductID
ORDER BY COUNT(orderID) DESC
LIMIT 1;
```

```
/* productName ordered the most in Germany */
```

```
SELECT p.ProductName
FROM Products p, prod_bought_in_germany_view pbq
WHERE pbq.ProductID = p.ProductID;
```

Query Result : Gorgonzola Telino