Question 1

1. Average was calculated in a wrong manner as we did not consider the number of pairs of shoes in the transaction.Also there are extreme values within the data as we see there are 17 transactions with 2000 items, and the next least item is 8 while most values are within 1-5 which would seriously drive up the AOV.A better metric would be to use one that is not affected by outliers which is the median
2. The median of the sales data(order\_amount)
3. It’s value is 284

Please for an Exploratory Data Analysis visit [here](https://colab.research.google.com/drive/1YWsBSXJKJpCunEaWi0fFVKKT9M3_UeDV?usp=sharing)

Question 2:

1. To find numbers of Orders Shipped by Speedy Express

**54 orders** were shipped by Speedy Express

SQL

| select count(\*) from orders a join shippers b on a.shipperId = b.shipperId where ShipperName = 'Speedy Express' |
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1. To find the Last Name of Employee with largest orders

**Peacock** with 40 orders

SQL

| select lastname from ( select count(a.employeeId) ordercnt, a.employeeId  from orders a join employees b on a.employeeId = b.employeeId group by a.employeeId order by ordercnt desc limit 1) c join employees d on c.employeeId = d.employeeId |
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1. Product Ordered Most by customers in Germany

By Quantity on each order for the product

**Steeleeye stout** was most ordered

SQL

| with table1 as ( select \* from orders a join customers b on a.customerId = b.customerId where b.country = 'Germany' ), table2 as ( select \* from orderdetails a join products b on a.productId = b.productId ) select productname from table1 c join table2 d on c.orderid = d.orderid order by Quantity desc Limit 1 |
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