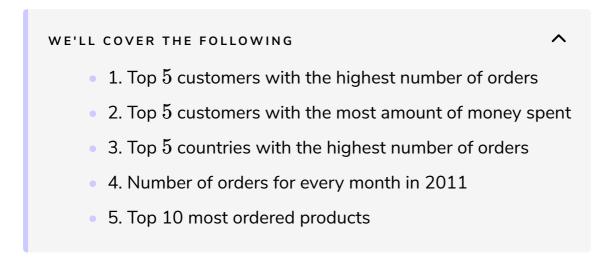
Solution Review: Exploring E-Commerce

This lesson provides solutions to the exercise on exploring E-Commerce Dataset in previous lesson.



1. Top 5 customers with the highest number of orders



We do this task in three steps:

- First, we group our data with CustomerID and call size to retrieve the number of times each CustomerID appeared in the data in line 5.
- Second, we sort the values in descending order using sort_values in line
 6.
- In the end, we just take the top 5 customers since they are already sorted.

2. Top 5 customers with the most amount of money spent



We do this task in four steps:

- First, we group our data with CustomerID and call sum since we want the AmountSpent of all orders added up for each customer in line 5.
- Then we select the AmountSpent column in line 6.
- Then we sort the values in descending order using sort_values in line 7.
- In the end, we just take the top 5 customers since they are already sorted.

3. Top 5 countries with the highest number of orders



- First, we group our data with Country and call size to retrieve the number of times each Country appeared in the data in **line 5**.
- Second, we sort the values in descending order using sort_values in line
 6.
- In the end, we just take the top 5 countries since these are already sorted.

4. Number of orders for every month in 2011



We do this task in two steps:

- First, we have to filter the data to keep entries for only 2011. For this, we specify our condition in **line 5**, then we filter using it in the next line.
- Second, we group our data by PurchaseMonth and call size to retrieve the number of times each month appeared in the data in **line** 7.

5. Top 10 most ordered products

```
import pandas as pd
df = pd.read_csv('e_commerce.csv')

# solution
temp = df.groupby('Description').sum()
temp = temp['Quantity']
temp = temp.sort_values(ascending=False)
temp = temp.iloc[:10]

print(temp)
```

We do this task in four steps:

- First, we group our data with Description and call sum since we want the Quantity of all orders added up for each product in line 5.
- Then we select the Quantity column in line 6.
- Then we sort the values in descending order using sort_values in line 7.
- In the end, we just take the top 10 products since they are already sorted.

In the next lesson, we will look at how we can perform RFM analysis in Python.