

```
794
                   795
                             48
                                     806
                                                  351
                                                                3
                                                                         credit_card 2017-03-08 15:03:28
         168
                   169
                             48
                                     797
                                                  351
                                                                3
                                                                        credit card 2017-03-08 06:12:47
       500 rows × 7 columns
[33] print(len(df['shop_id'].unique()))

[51] avg_cost_per_shoe_pair = sum(df['order_value'])/sum(df['total_items'])

       round(avg_cost_per_shoe_pair)
[50] avg_of_avgs = df['order_value'].mean()/df['total_items'].mean()
       round(avg_of_avgs)
       358
[38] payment_method_order_value_comparison = df.groupby(['payment_method'])['order_value'].sum()
        payment_method_order_value_comparison
       payment_method
                       1164183
       cash
       credit_card
                     12945867
                       1615590
       debit
       Name: order_value, dtype: int64
[39] payment_method_total_items_comparison = df.groupby(['payment_method'])['total_items'].sum()
       payment_method_total_items_comparison
       payment_method
                       3130
       cash
       credit_card
                      37415
       debit
                       3391
       Name: total_items, dtype: int64
✓ [48] #total order value per payment method divided by total items per payment method
        cash_method = 1164183/3130
        credit_card_method = 12945867/37415
```

credit_card 2017-03-06 01:49:41

credit_card 2017-03-06 23:11:48 debit 2017-03-07 11:35:25

1601

2537

2617

1602

2538

2618

debit_method = 1615590/3391

cash = 372 , credit_card = 346 , debit = 476

56

38

48

944

739

721

380

468

2

4

To calculate the Average Order Value (AOV), more calculations need to be performed than just determining the average of all the order values. Only calculating the average of all the order_value values does not account for the number of orders (total_items) and will not give you the average cost per pair of shoes. You could calculate the total of the order_value and the total of the total_items, and then divide the total order_value by the total total_items to get the average cost per pair of shoes....or you could calculate the average of all the order_value values and the average of all the total_items values, and divide those two averages (order_value avg / total_items avg) to get the average cost per pair of shoes. You also could evaluate the average amount spent per type of payment_method. After doing this it was observed that the average amount spent per type of payment method was slightly higher when using debit, and was close to the average cost of a pair of shoes when using cash or credit_card.

print('cash =',round(cash_method), ',', 'credit_card =',round(credit_card_method), ',', 'debit =',round(debit_me

