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import csv
Product_Details=[]
Store_Customer_Details=[]
Store_Supplier_Details={}
Gender={}

f1=open("../content/Sales.csv","r")
while(True):
    data=f1.readline()
    if not data:
        break;
    #print(data)
    data=data.replace("\n","")
    temp=data.split(",")
    print(temp)
    Product_Details.append(temp[1])
    Store_Customer_Details.append(temp[3])
    Store_Supplier_Details.update({temp[0]:temp[2]})
    Gender.update({temp[3]:temp[4]})
# 1 Finding the most popular product for sale.
    Product_Details
    frequency = {}
    for item in Product_Details:
        if item in frequency:
            frequency[item] += 1
        else:
            frequency[item] = 1

Sorted_frequency=sorted(frequency.items(),key=lambda x:x[1],reverse=

Sorted_frequency1=dict(Sorted_frequency)

print("Most popular product is: ",list(Sorted_frequency1.keys())[0])
# 2 Finding the best supplier for sales.
Store_Supplier_Details.values()
frequency={}
for item in Store_Supplier_Details.values():
    if item in frequency:
        frequency[item] += 1
    else:
        frequency[item] = 1

Sorted_frequency=sorted(frequency.items(),key=lambda x:x[1],reverse=

Sorted_frequency1=dict(Sorted_frequency)

print("Best supplier for sales is: ",list(Sorted_frequency1.keys())[

#3) Find the customer who buys most of the products.

Store_Customer_Details
frequency = {}
for item in Store_Customer_Details:
    if item in frequency:
        frequency[item] += 1
    else:
        frequency[item] = 1

Sorted_frequency=sorted(frequency.items(),key=lambda x:x[1],reverse=

Sorted_frequency1=dict(Sorted_frequency)

print("Most popular product is: ",list(Sorted_frequency1.keys())[0])
```

1 to 10 of 20 entries Filter

Product ID	Product details	Supplier Details	Customer
J01	Lenovo Laptop	Raka Ele.	Ka Me
J02	Samsung M31	Vijay Sales	Sic
J03	Realmi 10pro	Gada Ele.	Sa
J04	Oppo F21	Surya Ele.	Ya
J05	Lenovo Laptop	Raka Ele.	Ya
J06	Samsung M31	Gada Ele.	Sic
J07	LG TV 32"	Vijay Sales	Sa
J08	Oppo F21	Surya Ele.	Ka Me
J09	Lenovo Laptop	Raka Ele.	Ya
J10	Samsung M31	Gada Ele.	Sic

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#4) Find the number of customers who are 'Female'

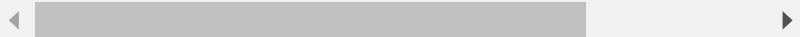
```
Gender.values()
frequency={}
for item in Gender.values():
    if item in frequency:
        frequency[item] += 1
    else:
        frequency[item] = 1

Sorted_frequency=sorted(frequency.items(),key=lambda x:x[1],reverse=

Sorted_frequency1=dict(Sorted_frequency)

print("The number of customers who are 'Female' is: ",list(Sorted_fr
```

```
↳ ['Product ID', 'Product details', 'Supplier Details', 'Customer
['P00001', 'Lenovo Laptop', 'Raka Ele.', 'Kaustubh Mahajan', 'M
['P00002', 'Samsung M31', 'Vijay Sales', 'Siddhi Kiwale', 'Fema
['P00003', 'Realmi 10pro', 'Gada Ele.', 'Sanket Kandalkar', 'Ma
['P00004', 'Oppo F21', 'Surya Ele.', 'Yash Mali', 'Male']
['P00005', 'Lenovo Laptop', 'Raka Ele.', 'Yash Bagul', 'Male']
['P00006', 'Samsung M31', 'Gada Ele.', 'Siddhi Kiwale', 'Female
['P00007', '"LG TV 32"', 'Vijay Sales', 'Sanket Kandalkar',
['P00008', 'Oppo F21', 'Surya Ele.', 'Kaustubh Mahajan', 'Male
['P00009', 'Lenovo Laptop', 'Raka Ele.', 'Yash Mali', 'Male']
['P00010', 'Samsung M31', 'Gada Ele.', 'Siddhi Kiwale', 'Female
['P00011', '"LG TV 32"', 'Surya Ele.', 'Sanket Kandalkar', 'M
['P00012', 'Lenovo Laptop', 'Raka Ele.', 'Kaustubh Mahajan', 'M
['P00013', 'Samsung M31', 'Surya Ele.', 'Yash Mali', 'Male']
['P00014', 'Realmi 10pro', 'Raka Ele.', 'Siddhi Kiwale', 'Fema
['P00015', 'Lenovo Laptop', 'Gada Ele.', 'Tanuja Mali', 'Female
['P00016', 'Oppo F21', 'Vijay Sales', 'Kaustubh Mahajan', 'Male
['P00017', '"LG TV 32"', 'Deshmukh sales', 'Sanket Kandalkar
['P00018', 'Lenovo Laptop', 'Raka Ele.', 'Siddhi Kiwale', 'Fema
['P00019', 'Samsung M31', 'Deshmukh sales', 'Kaustubh Mahajan',
['P00020', '"LG TV 32"', 'Gada Ele.', 'Yash Mali', 'Male']
Most popular product is: Lenovo Laptop
Best supplier for sales is: Raka Ele.
Most popular product is: Kaustubh Mahajan
The number of customers who are 'Female' is: 2
```



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