Nishant Rajat
577, E(4)

```
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])
```

Sales.csv ×

1 to 10 of 20 entries Filter

duct ID	Product details	Supplier Details	Cu
001	Lenovo Laptop	Raka Ele.	Ka Ma
002	Samsung M31	Vijay Sales	Sic
003	Realmi 10pro	Gada Ele.	Sa
004	Oppo F21	Surya Ele.	Ya
005	Lenovo Laptop	Raka Ele.	Ya
006	Samsung M31	Gada Ele.	Sic
007	LG TV 32"	Vijay Sales	Sa
008	Oppo F21	Surya Ele.	Ka Ma
009	Lenovo Laptop	Raka Ele.	Ya
010	Samsung M31	Gada Ele.	Sic

Show 10 per page 1 2

```
#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', 'Femal
['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
```

✓ 0s completed at 2:56 PM