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1) READ CSV INTO PYTHON DATA STRUCTURE

```python
Product_details=[]
Supplier_details=dict()
Customer_details=[]
gender={}
fp1=open("/content/drive/MyDrive/Colab Notebooks/Sales.csv","r")
data=fp1.readline()
while(True):

    data=fp1.readline()
    if not data:
        break;
    data=data.replace("\n","")
    temp=data.split(",")
    Product_details.append(temp[1])
    Customer_details.append(temp[3])
    Supplier_details.update({temp[0]:temp[2]})
    gender.update({temp[3]:temp[4]})

fp1.close()
Customer_details=tuple(Customer_details)
print(type(Customer_details))
```

```python
#2)FIND THE MOST POPULAR PRODUCT FOR SALES

frequency={}#{Lenovo Laptop : 3}
#iterating over the list
for item in Product_details:
#checking the element in dictionary
if item in frequency:
#incrementing the counter
frequency[item]+=1
else:
#intitalizing the count
frequency[item]=1
#printing the frequency
print(frequency)
marklist= sorted(frequency.items(),key=lambda x:[1],reverse=True)
sortdict=dict(marklist)
print(sortdict)
print("The most popular product for
sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"times")
```

#3) FIND THE BEST SUPPLIER FOR SALES

```python
frequency={}
#iterating over the list
for item in Supplier_details.values():
#checking the element in dictionary
if item in frequency:
#incrementing the counter
frequency[item]+=1
else:
#intializing the count
frequency[item]=1
#printing the frequency
print(frequency)
marklist=sorted(frequency.items(),key=lambda x:x[1],reverse=True)
sortdict=dict(marklist)
print(sortdict)
print("The most popular Supplier for
sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"Items")
```

```python
#4 ) Find teh customer who buys most of the products.
frequency={}
#iterating over the list
for item in Customer_details:
#checking the element in dictionary
if item in frequency:
#incrementing the counter
frequency[item]+=1
else:
#intializing the count
frequency[item]=1
#printing the frequency
print("Frequency is as below:\n",frequency)
marklist=sorted(frequency.items(),key=lambda x:x[1],reverse=True)
sortdict=dict(marklist)
print("\nsorted dict is as below:\n",sortdict)
print("\n\nThe customer who buys most of the
products",list(sortdict.keys())[0],"buy",list(sortdict.values())[0],"Items
")
```

```python
#5) FIND THE NUMBER OF CUSTOMERS WHO ARE 'FEMALE'

# identify unique customer
from collections import Counter
counter=dict(Counter(Customer_details))
names=list(counter.keys())
print(names)
male=0
female=0

for name in names:
if gender[name]=="Male":
male=male+1
if gender[name]=="Female":
female+=1
print("Total no of male=",male)
print("Total no of Female",female)
```