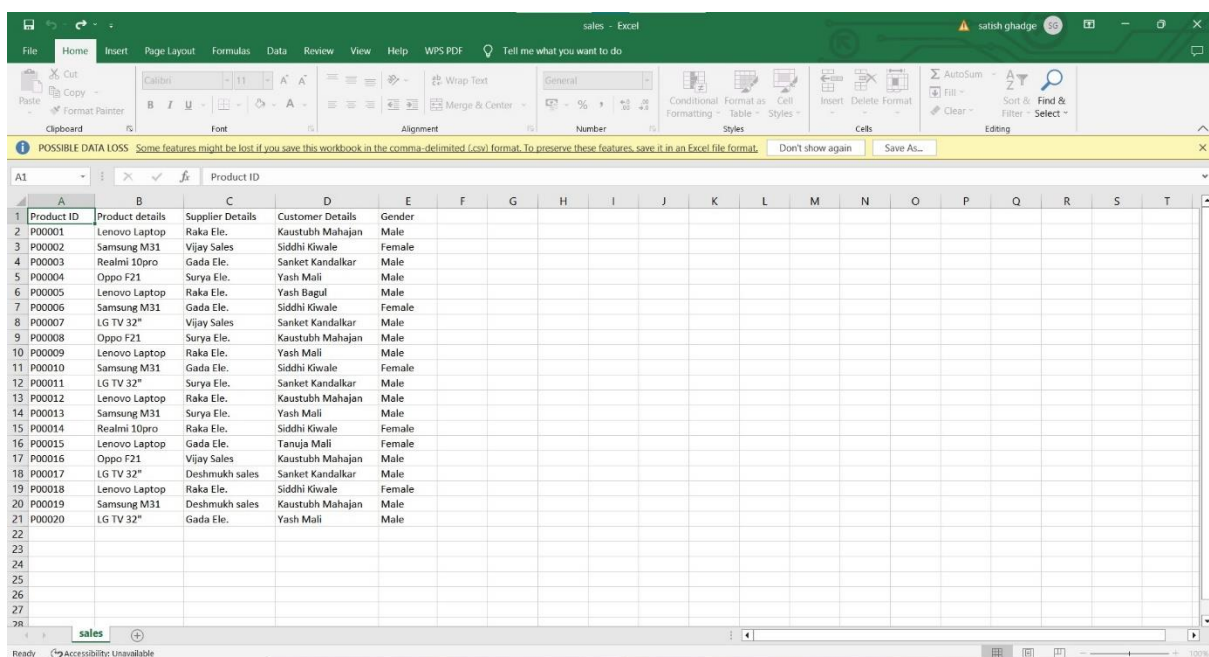


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Batch-H3

- Find the most popular product for sale.
- Find the best supplier for sales.
- Find the customer who buys most of the products.
- Find the number of customers who are 'Female'

The input excel sheet:



Product ID	Product details	Supplier Details	Customer Details	Gender
P00001	Lenovo Laptop	Raka Ele.	Kaustubh Mahajan	Male
P00002	Samsung M31	Vijay Sales	Siddhi Kiwale	Female
P00003	Realmi 10pro	Gada Ele.	Sanket Kandalkar	Male
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	Male
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	Male
P00012	Lenovo Laptop	Raka Ele.	Kaustubh Mahajan	Male
P00013	Samsung M31	Surya Ele.	Yash Mali	Male
P00014	Realmi 10pro	Raka Ele.	Siddhi Kiwale	Female
P00015	Lenovo Laptop	Gada Ele.	Tanuja Mali	Female
P00016	Oppo F21	Vijay Sales	Kaustubh Mahajan	Male
P00017	LG TV 32"	Deshmukh sales	Sanket Kandalkar	Male
P00018	Lenovo Laptop	Raka Ele.	Siddhi Kiwale	Female
P00019	Samsung M31	Deshmukh sales	Kaustubh Mahajan	Male
P00020	LG TV 32"	Gada Ele.	Yash Mali	Male

Code:

```
f=open ("sales.csv","r")
data=f.read ()
datalst=data.splitlines ()

product_details=[]
supplier_id= {}
customer_details= {}
gender_details= {}
customer_temp=[]
sfc= {}
pfc= {}
cfc= {}

for line in datalst:
    word=line.split (",")
    product_details.append ( word[1])
    customer_temp.append ( word[3])
    supplier_id[word[0]]=word[2]
    gender_details[word[3]]=word[4]
    customer_details= ( tuple ( customer_temp ) )

for p in product_details:
```

```
customer__details= ( tuple ( customer__temp) )

for p in product__details:
    if p not in pfc:
        pfc[p]=1
    else:
        pfc[p]=pfc[p]+1

max=0
product__name=" "
for k,v in pfc.items () :
    if ( max<v) :
        max=v
        product__name=k
print ( "Most popular product is :", product__name)

for c in customer__temp:
    if c not in cfc:
        cfc[c]=1
    else:
        cfc[c]=cfc[c]+1
```

Ln: 74 Col: 19

```
        else:
            cfc[c]=cfc[c]+1

max=0
customer__name=" "

for a,b in cfc.items () :
    if ( max<b) :
        max=b
        customer__name=a
print ( "Customer who buys most of the product is :",customer__name)

for k,v in supplier__id.items () :
    if ( v not in sfc) :
        sfc[v]=1
    else:
        sfc[v]=sfc[v]+1

max=0
supplier__name=" "

for k,v in sfc.items () :
```

Ln: 74 Col: 19

```
*Practical no 2.py - C:\Users\SATISH\OneDrive\Desktop\861_ed\Practice(file handling)\Practical no 2.py (3.11.3)*
File Edit Format Run Options Window Help

supplier__name=""

for k,v in sfc.items () :
    if ( max<v) :
        max=v
        supplier__name=k
print ( "Most popular supplier is: ",supplier__name)

female=0
male=0

for k,v in gender__details.items () :
    if ( v=="Female") :
        female=female+1
    else:
        male=male+1
print ( "Total number of females are: ",female)
print ( "Total number of males are: ", male)
|
```

Output:

```
IDLE Shell 3.11.3
File Edit Shell Debug Options Window Help

Python 3.11.3 ( tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit ( AMD64) ] on win32
Type "help", "copyright", "credits" or "license () " for more information.
>>>
= RESTART: C:\Users\SATISH\OneDrive\Desktop\861__eds\Practice ( file handling) \Practical no 2.py
Most popular product is : Lenovo Laptop
Customer who buys most of the product is: Kaustubh Mahajan
Most popular supplier is: Raka Ele.
Total number of females are: 2
Total number of males are: 5
>>>
```