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## **ASSIGNMENT 2**

### **ESSENTIAL OF DATA SCIENCE**

CHANGED CSV FILE

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Assignment2submission.ipynb ☆

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample\_data
- Clothes.csv

Clothes.csv x

Product ID	Product Details	Supplier Details	Customer details	Gender
P00001	Zara	Sawan Bazar	Devesh Aseri	Male
P00002	Gucci	Anand	Rutuja Sawant	Female
P00003	Pantaloon	Fashion Centre	Gautam Balotiya	Male
P00004	H and M	Kaizer	Mohit Karande	Male
P00005	Zara	Sawan Bazar	Vinod Kamble	Male
P00006	Gucci	Fashion Centre	Rutuja swant	Female
P00007	Armani	Anand	Gautam Balotiya	Male
P00008	H and M	Kaizer	Devesh Aseri	Male
P00009	Zara	Sawan Bazar	Mohit Karande	Male
P00010	Gucci	Fashion Centre	Rutuja sawant	Female

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Sales.xlsx - Sheet1....csv

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Assignment2submission.ipynb ☆

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Files

- sample\_data
- Clothes.csv

```
Product_details=[]
Supplier_details=dict()
Customer_details=[]
gender=[]

fp1=open("/content/Clothes.csv","r")
data=fp1.readline()

while(True):

    data=fp1.readline()
    if not data:
        break;
    #print(data)
    #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))
print("\nProduct_details\n",Product_details,end="")
print("\nCustomer_details\n",Customer_details,end="")
print("\nSupplier_details\n",Supplier_details,end="")
print("\ngender\n",gender,end="")
```

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Sales.xlsx - Sheet1....csv

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OUTPUT

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Assignment2submission.ipynb

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Comment Share

Files

sample\_data  
Clothes.csv

```

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))
print("\nProduct_details\n",Product_details,end="")
print("\nCustomer_details\n",Customer_details,end="")
print("\nSupplier_details\n",Supplier_details,end="")
print("\ngender\n",gender,end="")

<class 'tuple'>

Product_details
['Zara', 'Gucci', 'Pantaloons', 'H and M', 'Zara', 'Gucci', 'Armani', 'H and M', 'Zara', 'Gucci']

Customer_details
('Devesh Aseri', 'Rutuja Sawant', 'Gautam Balotiya', 'Mohit Karande', 'Vinod Kamble', 'Rutuja swant', 'Gautam Balotiya', 'Devesh Aseri', 'Mohit')

Supplier_details
{'P00001': 'Sawan Bazar', 'P00002': 'Anand', 'P00003': 'Fashion Centre', 'P00004': 'Kaizer', 'P00005': 'Sawan Bazar', 'P00006': 'Fashion Centre'}

gender
{'Devesh Aseri': 'Male\n', 'Rutuja Sawant': 'Female\n', 'Gautam Balotiya': 'Male\n', 'Mohit Karande': 'Male\n', 'Vinod Kamble': 'Male\n', 'Rutuja':

```

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Sales.xlsx - Sheet1...csv

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Assignment2submission.ipynb

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Comment Share

Files

sample\_data  
Clothes.csv

```

Supplier_details
{'P00001': 'Sawan Bazar', 'P00002': 'Anand', 'P00003': 'Fashion Centre', 'P00004': 'Kaizer', 'P00005': 'Sawan Bazar', 'P00006': 'Fashion Centre'}

gender
{'Devesh Aseri': 'Male\n', 'Rutuja Sawant': 'Female\n', 'Gautam Balotiya': 'Male\n', 'Mohit Karande': 'Male\n', 'Vinod Kamble': 'Male\n', 'Rutuja':

#Find the most popular product for sale.
frequency = {}#lenovo Laptop:3}
iterating over the list
for item in Product_details:
    #checking the elements in dictionary
    if item in frequency:
        #incrementing the counter
        frequency[item] += 1
    else:
        #initializing 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 product for sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"times")

{'Zara': 3, 'Gucci': 3, 'Pantaloons': 1, 'H and M': 2, 'Armani': 1}
{'Zara': 3, 'Gucci': 3, 'H and M': 2, 'Pantaloons': 1, 'Armani': 1}
The most popular product for sales Zara sold 3 times

```

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Sales.xlsx - Sheet1...csv

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Comment Share

Files

sample\_data  
Clothes.csv

Code + Text

```
[2] print(sortdict)
print("The most popular product for sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"times")

{'Zara': 3, 'Gucci': 3, 'Pantaloons': 1, 'H and M': 2, 'Armani': 1}
{'Zara': 3, 'Gucci': 3, 'H and M': 2, 'Pantaloons': 1, 'Armani': 1}
The most popular product for sales Zara sold 3 times

[3] #Find the best supplier for sales.
frequency = {}#{vijay sales:3}
#iterating over the list
for item in supplier_details.values():
    #checking the elements in dictionary
    if item in frequency:
        #incrementing the counter
        frequency[item] += 1
    else:
        #initializing 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 best supplier for sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"times")

{'Sawan Bazar': 3, 'Anand': 2, 'Fashion Centre': 3, 'Kaizer': 2}
{'Sawan Bazar': 3, 'Fashion Centre': 3, 'Anand': 2, 'Kaizer': 2}
The best supplier for sales Sawan Bazar sold 3 times
```

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Sales.xlsx - Sheet1...csv

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Assignment2submission.ipynb ☆

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Comment Share

Files

sample\_data  
Clothes.csv

Code + Text

```
[3] print("The best supplier for sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"times")

{'Sawan Bazar': 3, 'Anand': 2, 'Fashion Centre': 3, 'Kaizer': 2}
{'Sawan Bazar': 3, 'Fashion Centre': 3, 'Anand': 2, 'Kaizer': 2}
The best supplier for sales Sawan Bazar sold 3 times

#Find the customer who buys most of the products.
frequency = {}#{vijay sales:3}
#iterating over the list
for item in Customer_details:
    #checking the elements in dictionary
    if item in frequency:
        #incrementing the counter
        frequency[item] += 1
    else:
        #initializing 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 customer who buys most of the products.",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"times")

{'Devesh Aseri': 2, 'Rutuja Sawant': 1, 'Gautam Balotiya': 2, 'Mohit Karande': 2, 'Vinod Kamble': 1, 'Rutuja swant': 1, 'Rutuja sawant': 1}
{'Devesh Aseri': 2, 'Gautam Balotiya': 2, 'Mohit Karande': 2, 'Rutuja Sawant': 1, 'Vinod Kamble': 1, 'Rutuja swant': 1, 'Rutuja sawant': 1}
The customer who buys most of the products. Devesh Aseri sold 2 times

[5] #Find the number of customers who are 'Female'
```

0s completed at 1:13 AM

Sales.xlsx - Sheet1...csv

26°C Near record

The screenshot displays a Google Colab notebook titled "Assignment2submission.ipynb". The left sidebar shows a file explorer with a folder named "sample\_data" containing a file "Clothes.csv". The main area contains a Python script that counts the number of customers who are 'Female' from a dataset. The script uses a dictionary to track the frequency of each gender. The output shows the frequency for 'Male' (4) and 'Female' (3), and a formatted string indicating that 4 Male customers sold 4 times.

```
#Find the number of customers who are 'Female'
frequency = {}#{vijay sales:3}
#iterating over the list
for item in gender.values():
    #checking the elements in dictionary
    if item in frequency:
        #incrementing the counter
        frequency[item] += 1
    else:
        #initializing 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(" number of customers who are 'Female' ",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"times")
```

```
{'Male\n': 4, 'Female\n': 3}
{'Male\n': 4, 'Female\n': 3}
number of customers who are 'Female' Male
sold 4 times
```

The notebook interface shows the code is executed successfully, with a status bar indicating "completed at 1:13 AM". The bottom of the screen shows a Windows taskbar with the date 28-05-2023 and time 01:40.

THANKYOU!

