Name: Mansi kawade

Roll no: 631

Div: F

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import csv

# Read data from the spreadsheet file
filename = '/content/Sales 222.csv'  # Replace with the actual filename
and path

product_list = []
supplier_dict = {}
customer_tuple = ()

with open("/content/Sales 222.csv", 'r') as file:
    reader = csv.reader(file)
    next(reader)  # Skip the header row

    # Process each row of data
    for row in reader:
        product_id = row[0]
        product_details = row[1]
        supplier_details = row[2]
        customer_details = row[3]
        gender = row[4]

        # Store product details in a list
        product_list.append(product_details)

        # Store supplier details in a dictionary
        if supplier_details in supplier_dict:
            supplier_dict[supplier_details].append(product_id)
        else:
            supplier_dict[supplier_details] = [product_id]

        # Store customer details in a tuple
        if customer_tuple:
            customer_tuple += (customer_details,)
        else:
            customer_tuple = (customer_details,)

# Find the most popular product for sale
popular_product = max(set(product_list), key=product_list.count)
print("Most popular product:", popular_product)
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# Find the best supplier for sales
best_supplier = max(supplier_dict, key=lambda x: len(supplier_dict[x]))
print("Best supplier for sales:", best_supplier)

# Find the customer who buys most of the products
customer_count = {customer: customer_tuple.count(customer) for customer
in customer_tuple}
most_products_customer = max(customer_count, key=customer_count.get)
print("Customer who buys most products:", most_products_customer)

# Find the number of customers who are 'Female'
female_customers = customer_tuple.count('Female')
print("Number of female customers:", female_customers)
```

Output

Most popular product: Lenovo Laptop
Best supplier for sales: Raka Ele.
Customer who buys most products: Kaustubh Mahajan
Number of female customers: 0
