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In [5]: import mysql.connector
import pandas as pd
def add_product():
    cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
    cursor=cnx.cursor()
    ICode=input("Enter Item Code:")
    Icmp=input("Enter Company Name:")
    IName = input("Enter the name of the product: ")
    IName=IName.upper()
    IPrice = int(input("Enter the price of the product: "))
    IStock = int(input("Enter the stock of the product: "))
    DoP=input("Enter Date of purchase (yy/mm/dd):")
    cursor.execute('Insert into Items values("%s","%s","%s",%s,%s,"%s")'%(ICode,IN
    cnx.commit()
    cursor.close()
    cnx.close()
    print("Product inserted.")
def display_product():
    cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
    cursor=cnx.cursor()
    query=("SELECT*FROM Items")
    cursor.execute(query)
    item_no=[]
    item_name=[]
    item_cmp=[]
    item_price=[]
    item_stock=[]
    item_dd=[]
    for(Ino,IName,Icmp,price,stock,dd)in cursor:
        item_no.append(Ino)
        item_name.append(IName)
        item_cmp.append(Icmp)
        item_price.append(price)
        item_stock.append(stock)
        item_dd.append(dd)
    cnx.commit()
    cursor.close()
    cnx.close()
    data={"Item Code":item_no,"Item Name":item_name,"Item Company":item_cmp,"Price
    df=pd.DataFrame(data)
    if df.empty:
        return "NO RECORDS AVAILABLE"
    else:
        return df
def delete_product():
    name = input("Enter the name of the product to delete: ")
    name=name.upper()
    cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
    cursor=cnx.cursor()
    qry=("DELETE FROM Items where IName= %s")
    del_rec=(name,)
    cursor.execute(qry,del_rec)
    cnx.commit()
    cursor.close()
    cnx.close()
    print("Record deleted successfully.")
def update_product():
    cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
    cursor=cnx.cursor()
    name = input("Enter the name of the product to update: ")
    name=name.upper()
    print("Enter New data.")

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Ino=input("Enter Item code:")
Iname=input("Enter Item Name:")
Iname=Iname.upper()
Icmp=input("Enter Company Name:")
price=int(input("Enter Item Price:"))
qty=int(input("Enter Available stock:"))
print("Enter Date of purchase(date/month/year):")
dd=input("Enter date:")
qry=('update Items set ICode=%s,Iname=%s,Icmp=%s,IPrice=%s,IQty=%s,DoP=%s where
data=(Ino,Iname,Icmp,price,qty,dd,name)
cursor.execute(qry,data)
cnx.commit()
cursor.close()
cnx.close()

def search_product():
cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
cursor=cnx.cursor()
Ino=input("Enter item no to be searched:")
qry=("select*from Items where Icode=%s")
rec_srch=(Ino,)
cursor.execute(qry,rec_srch)
rec_count=0
for(Ino,Iname,Icmp,price,qty,dd)in cursor:
    rec_count+=1
    print("=====")
    print("Item Code:",Ino)
    print("Item Name:",Iname)
    print("Item Company:",Icmp)
    print("Item Price:",price)
    print("Total Stock:",qty)
    print("Date of Purchase:",dd)
    print("=====")
    print(rec_count,"Record(s) found")
cnx.commit()
cursor.close()
cnx.close()

def customer_add():
cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
cursor=cnx.cursor()
Name=input("Enter Customer Name:")
Name=Name.upper()
Score=int(input("Enter Customer Score:"))
cursor.execute('Insert into customerscore values("%s",%s)%'(Name,Score))
cnx.commit()
cursor.close()
cnx.close()
print("Record inserted.")

def customer_display():
cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
cursor=cnx.cursor()
query=("SELECT*FROM customerscore")
cursor.execute(query)
cust_score=[]
cust_name=[]
for(name,score)in cursor:
    cust_name.append(name)
    cust_score.append(score)
cnx.commit()
cursor.close()
cnx.close()
data={"Customer Name":cust_name,"Customer Score":cust_score}
df=pd.DataFrame(data)
if df.empty:
    return "NO RECORDS AVAILABLE"

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else:
    return df
def customer_delete():
    cname = input("Enter Customer Name to delete: ")
    cname=cname.upper()
    cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
    cursor=cnx.cursor()
    qry=("DELETE FROM customerscore where Cname= %s")
    del_rec=(cname,)
    cursor.execute(qry,del_rec)
    cnx.commit()
    cursor.close()
    cnx.close()
    print("Record deleted successfully.")
def customer_update():
    cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
    cursor=cnx.cursor()
    cname = input("Enter the customer name: ")
    cname=cname.upper()
    print("Enter New data.")
    name=input("Enter Customer Name: ")
    name=name.upper()
    score=int(input("Enter Customer Score"))
    qry=("update customerscore set Cname=%s,Cscore=%s where Cname=%s")
    data=(name,score,cname)
    cursor.execute(qry,data)
    cnx.commit()
    cursor.close()
    cnx.close()
def customer_search():
    cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
    cursor=cnx.cursor()
    cname=input("Enter customer name to be searched:")
    cname=cname.upper()
    qry=("select*from customerscore where Cname=%s")
    rec_srch=(cname,)
    cursor.execute(qry,rec_srch)
    rec_count=0
    for(cname,cscore)in cursor:
        rec_count+=1
        print("=====")
        print("Customer Name:",cname)
        print("Customer Score:",cscore)
        print("=====")
        print(rec_count,"Record(s) found")
    cnx.commit()
    cursor.close()
    cnx.close()
def calculate_bill():
    name_prod=[]
    price_prod=[]
    qty_prod=[]
    total_prod=[]
    total=0
    begin=True
    cnx=mysql.connector.connect(user='root',passwd='root@2004',host='localhost',da
    cursor=cnx.cursor()
    print("\n*****")
    print("                                BILLING
    print("\n*****")
    while begin==True:
        name = input("Enter the name of the product (or 'Done' to finish): ")
        name=name.upper()
        if name == 'DONE':

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        print("YOU ARE NOW EXITING FROM BILLING MENU")
        begin=False
    else:
        quantity = int(input("Enter the quantity: "))
        qry=("select IPrice from Items where IName=%s")
        rec_srch=(name,)
        cursor.execute(qry,rec_srch)
        for price in cursor:
            if price==None:
                print(f"{name} is not in the list of products.")
            else:
                price=price[0]
                name_prod.append(name)
                price_prod.append(price)
                qty_prod.append(quantity)
                total_prod.append(price*quantity)
                a=price*quantity
                total=total+a
        data={"PRODUCT NAME":name_prod,"PRICE":price_prod,"Quantity":qty_prod,"Amount"
        df=pd.DataFrame(data)
        print(df)
        print("\n*****")
        print("Total Amount ",total)
        print("*****")
        cnx.commit()
        cursor.close()
        cnx.close()
start=True
start_1=True
start_2=True
while start:
    print("\n*****")
    print("===== Supermarket Management System =====")
    print("=====          ABC SUPERMARKET          =====")
    print("=====          MAIN MENU          =====")
    print("*****")
    print("\n1. Items Menu")
    print("\n2. Customer Menu")
    print("\n3. Billing")
    print("\n0. Exit")
    ch=int(input("\nEnter your choice: "))
    if ch==1:
        print("\nYOU ARE IN ITEMS MENU")
        while start_1:
            print("\n1. Add product")
            print("\n2. Delete product")
            print("\n3. Update product")
            print("\n4. Search Product")
            print("\n5. Display products")
            print("\n0. Exit")
            ch = int(input("Enter your choice: "))
            if ch == 1:
                add_product()
            elif ch == 2:
                delete_product()
            elif ch == 3:
                update_product()
            elif ch == 4:
                search_product()
            elif ch == 5:
                print(display_product())
            elif ch == 0:
                print("YOU ARE NOW EXITING FROM ITEMS MENU.")
                start_1=False

```

[illegible]

```

*****
===== Supermarket Management System =====
===== ABC SUPERMARKET =====
===== MAIN MENU =====
*****

```

1. Items Menu

2. Customer Menu

3. Billing

0. Exit

Enter your choice: 1

YOU ARE IN ITEMS MENU

1. Add product

2. Delete product

3. Update product

4. Search Product

5. Display products

0. Exit

Enter your choice: 5

	Item Code	Item Name	Item Company	Price	Stock(s) available \
0	B345	BAG	Skybags	1640	25
1	A201	PEN	Technotip	10	200
2	B220	NOTEBOOK	Classmate	75	600
3	A412	PENCIL BOX	xyz	35	50
4	B221	PENCIL	Apsara	5	200
5	E285	MANGO	Ellickal	70	50

	Date of Purchase
0	2023-04-21
1	2023-05-26
2	2023-05-20
3	2023-05-22
4	2023-05-26
5	2023-06-21

1. Add product

2. Delete product

3. Update product

4. Search Product

5. Display products

0. Exit

Enter your choice: 2

Enter the name of the product to delete: pencil box

Record deleted successfully.

1. Add product

2. Delete product

3. Update product

4. Search Product

5. Display products

0. Exit

Enter your choice: 5

	Item Code	Item Name	Item Company	Price	Stock(s) available	Date of Purchase
0	B345	BAG	Skybags	1640	25	2023-04-21
1	A201	PEN	Technotip	10	200	2023-05-26
2	B220	NOTEBOOK	Classmate	75	600	2023-05-20
3	B221	PENCIL	Apsara	5	200	2023-05-26
4	E285	MANGO	Ellikkal	70	50	2023-06-21

1. Add product

2. Delete product

3. Update product

4. Search Product

5. Display products

0. Exit

Enter your choice: 1

Enter Item Code:A400

Enter Company Name:xyz

Enter the name of the product: pencilbox

Enter the price of the product: 40

Enter the stock of the product: 35

Enter Date of purchase (yy/mm/dd):23/06/01

Product inserted.

1. Add product

2. Delete product

3. Update product

4. Search Product

5. Display products

0. Exit

Enter your choice: 5

	Item Code	Item Name	Item Company	Price	Stock(s) available	\
0	B345	BAG	Skybags	1640	25	
1	A201	PEN	Technotip	10	200	
2	B220	NOTEBOOK	Classmate	75	600	
3	B221	PENCIL	Apsara	5	200	
4	E285	MANGO	Ellikkal	70	50	
5	A400	PENCILBOX	xyz	40	35	

Date of Purchase

0 2023-04-21

1 2023-05-26

2 2023-05-20

3 2023-05-26

4 2023-06-21

5 2023-06-01

1. Add product

2. Delete product

3. Update product

4. Search Product

5. Display products

0. Exit

Enter your choice: 3

Enter the name of the product to update: pencilbox

Enter New data.

Enter Item code:A400

Enter Item Name:pencilbox

Enter Company Name:abc

Enter Item Price:35

Enter Available stock:15

Enter Date of purchase(date/month/year):

Enter date:23/06/01

1. Add product

2. Delete product

3. Update product

4. Search Product

5. Display products

0. Exit

Enter your choice: 5

	Item Code	Item Name	Item Company	Price	Stock(s) available	\
0	B345	BAG	Skybags	1640	25	
1	A201	PEN	Technotip	10	200	
2	B220	NOTEBOOK	Classmate	75	600	
3	B221	PENCIL	Apsara	5	200	
4	E285	MANGO	Ellickal	70	50	
5	A400	PENCILBOX	abc	35	15	

Date of Purchase

0 2023-04-21

1 2023-05-26

2 2023-05-20

3 2023-05-26

4 2023-06-21

5 2023-06-01

1. Add product

2. Delete product

3. Update product

4. Search Product

5. Display products

0. Exit

Enter your choice: 4

Enter item no to be searched:E285

=====

Item Code: E285
 Item Name: MANGO
 Item Company: Ellikkal
 Item Price: 70
 Total Stock: 50
 Date of Purchase: 2023-06-21

=====

1 Record(s) found

1. Add product
2. Delete product
3. Update product
4. Search Product
5. Display products

0. Exit

Enter your choice: 5

	Item Code	Item Name	Item Company	Price	Stock(s) available \
0	B345	BAG	Skybags	1640	25
1	A201	PEN	Technotip	10	200
2	B220	NOTEBOOK	Classmate	75	600
3	B221	PENCIL	Apsara	5	200
4	E285	MANGO	Ellikkal	70	50
5	A400	PENCILBOX	abc	35	15

Date of Purchase

0	2023-04-21
1	2023-05-26
2	2023-05-20
3	2023-05-26
4	2023-06-21
5	2023-06-01

1. Add product
2. Delete product
3. Update product
4. Search Product
5. Display products

0. Exit

Enter your choice: 0

YOU ARE NOW EXITING FROM ITEMS MENU.

```

*****
===== Supermarket Management System =====
===== ABC SUPERMARKET =====
===== MAIN MENU =====
*****
  
```

1. Items Menu
2. Customer Menu
3. Billing
0. Exit

Enter your choice: 2

YOU ARE IN CUSTOMER MENU

1. Add customer details
2. Delete customer details
3. Update customer details
4. Search customer details
5. Display customer details
0. Exit

Enter your choice: 5

	Customer Name	Customer Score
0	ABC	1200
1	DEF	1100
2	GHI	4000
3	JKL	3200
4	MNO	1000
5	PQR	2000

1. Add customer details
2. Delete customer details
3. Update customer details
4. Search customer details
5. Display customer details
0. Exit

Enter your choice: 2

Enter Customer Name to delete: mno
Record deleted successfully.

1. Add customer details
2. Delete customer details
3. Update customer details
4. Search customer details
5. Display customer details
0. Exit

Enter your choice: 5

	Customer Name	Customer Score
0	ABC	1200
1	DEF	1100
2	GHI	4000
3	JKL	3200
4	PQR	2000

1. Add customer details

2. Delete customer details
3. Update customer details
4. Search customer details
5. Display customer details
0. Exit

Enter your choice: 1
Enter Customer Name:mno
Enter Customer Score:1000
Record inserted.

1. Add customer details
2. Delete customer details
3. Update customer details
4. Search customer details
5. Display customer details
0. Exit

Enter your choice: 5

	Customer Name	Customer Score
0	ABC	1200
1	DEF	1100
2	GHI	4000
3	JKL	3200
4	PQR	2000
5	MNO	1000

1. Add customer details
2. Delete customer details
3. Update customer details
4. Search customer details
5. Display customer details
0. Exit

Enter your choice: 3
Enter the customer name: jkl
Enter New data.
Enter Customer Name: jkl
Enter Customer Score:2900

1. Add customer details
2. Delete customer details
3. Update customer details
4. Search customer details
5. Display customer details

0. Exit

Enter your choice: 5

	Customer Name	Customer Score
0	ABC	1200
1	DEF	1100
2	GHI	4000
3	JKL	2900
4	PQR	2000
5	MNO	1000

1. Add customer details

2. Delete customer details

3. Update customer details

4. Search customer details

5. Display customer details

0. Exit

Enter your choice: 4

Enter customer name to be searched:ghi

=====

Customer Name: GHI

Customer Score: 4000

=====

1 Record(s) found

1. Add customer details

2. Delete customer details

3. Update customer details

4. Search customer details

5. Display customer details

0. Exit

Enter your choice: 5

	Customer Name	Customer Score
0	ABC	1200
1	DEF	1100
2	GHI	4000
3	JKL	2900
4	PQR	2000
5	MNO	1000

1. Add customer details

2. Delete customer details

3. Update customer details

4. Search customer details

5. Display customer details

0. Exit

Enter your choice: 0

YOU ARE NOW EXITING FROM ITEMS MENU

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*****
===== Supermarket Management System =====
===== ABC SUPERMARKET =====
===== MAIN MENU =====
*****

```

1. Items Menu

2. Customer Menu

3. Billing

0. Exit

Enter your choice: 3

```

*****
                                BILLING
*****

```

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*****
Enter the name of the product (or 'Done' to finish): notebook
Enter the quantity: 7
Enter the name of the product (or 'Done' to finish): bag
Enter the quantity: 1
Enter the name of the product (or 'Done' to finish): pencil
Enter the quantity: 5
Enter the name of the product (or 'Done' to finish): pen
Enter the quantity: 5
Enter the name of the product (or 'Done' to finish): done
YOU ARE NOW EXITING FROM BILLING MENU

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	PRODUCT NAME	PRICE	Quantity	Amount
0	NOTEBOOK	75	7	525
1	BAG	1640	1	1640
2	PENCIL	5	5	25
3	PEN	10	5	50

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*****
Total Amount  2240
*****

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***** THANK YOU, VISIT AGAIN :) *****

```

*****
===== Supermarket Management System =====
===== ABC SUPERMARKET =====
===== MAIN MENU =====
*****

```

1. Items Menu

2. Customer Menu

3. Billing

0. Exit

Enter your choice: 0

ARE YOU SURE YOU WANT TO EXIT?

YES NO

yes

