Project On "Fashion Store"

By:

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DBMS: MySQL

Host: localhost

User: root

Pass: root

DataBase: fashion

Table Structure: (Images Bellow)

Product Table:

```
mysql> create table product(product_id char(4) Primary Key,
    -> PName varchar(20) not null
    -> ,
    -> brand varchar(10),
    -> Product_for varchar(6),
    -> season varchar(6),
    -> rate int(5) not null);
Query OK, 0 rows affected (0.09 sec)

mysql> desc product;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| product_id  | char(4)     | NO   | PRI | NULL    |       |
| PName       | varchar(20) | NO   |     | NULL    |       |
| brand       | varchar(10) | YES  |     | NULL    |       |
| Product_for | varchar(6)  | YES  |     | NULL    |       |
| season      | varchar(6)  | YES  |     | NULL    |       |
| rate        | int(5)      | NO   |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
6 rows in set (0.02 sec)
```

Purchase Table:

```
mysql> create table purchase(purchase_id char(6) not null,
    -> item_id char(4) references product(product_id),
    -> no_of_items int(3) not null,
    -> amount int(7),
    -> Purchase_date date);
Query OK, 0 rows affected (0.24 sec)

mysql> desc purchasel
    -> ;
ERROR 1146 (42S02): Table 'fashion.purchasel' doesn't exist
mysql> desc purchase;
+---------------+----------+------+-----+---------+-------+
| Field         | Type     | Null | Key | Default | Extra |
+---------------+----------+------+-----+---------+-------+
| purchase_id   | char(6)  | NO   |     | NULL    |       |
| item_id       | char(4)  | YES  |     | NULL    |       |
| no_of_items   | int(3)   | NO   |     | NULL    |       |
| amount        | int(7)   | YES  |     | NULL    |       |
| Purchase_date | date     | YES  |     | NULL    |       |
+---------------+----------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

Note: In Purchase table take the purchase ID as varchar (16)

Stock Table;

```
mysql> create table stock(item_id char(4) references product(product_id),
    -> Instock int(3) not null,
    -> status varchar(10) Not null);
Query OK, 0 rows affected (0.12 sec)

mysql> desc stock;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| item_id | char(4)     | YES  |     | NULL    |       |
| Instock | int(3)      | NO   |     | NULL    |       |
| status  | varchar(10) | NO   |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

Sales Table:

```
mysql> create table sales(sale_id char(6) Primary key,
    -> item_id char(4) references product(product_id),
    -> no_of_item_sold int(3) not null,
    -> sale_rate int(5) not null,
    -> amount int(7) not null,
    -> date_of_sale date);
Query OK, 0 rows affected (0.09 sec)

mysql> desc sales;
+-----------------+---------+------+-----+---------+-------+
| Field           | Type    | Null | Key | Default | Extra |
+-----------------+---------+------+-----+---------+-------+
| sale_id         | char(6) | NO   | PRI | NULL    |       |
| item_id         | char(4) | YES  |     | NULL    |       |
| no_of_item_sold | int(3)  | NO   |     | NULL    |       |
| sale_rate       | int(5)  | NO   |     | NULL    |       |
| amount          | int(7)  | NO   |     | NULL    |       |
| date_of_sale    | date    | YES  |     | NULL    |       |
+-----------------+---------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

Note: In Purchase table take the sale_id as varchar (16)

Python Code:

```python
import os
import platform
import mysql.connector
import pandas as pd
import datetime


mydb=mysql.connector.connect(host="localhost",\
            user="root",\
            passwd="root",\
            database="fashion")
mycursor=mydb.cursor()

def AddProduct():
    L=[]
    stk=[]
    pid=input("Enter the Product ID : ")
    L.append(pid)
    IName=input("Enter the Product Name : ")
```

```python
        L.append(IName)
        brnd=input("Enter the Product Brand Name : ")
        L.append(brnd)
        fr=input("Enter Male/Female/Kids : ")
        L.append(fr)
        sn=input("Enter Winter/Summer : ")
        L.append(sn)
        rate=int(input("Enter the Rates for Product :"))
        L.append(rate)
        product=(L)
        sql="Insert into product (product_id,PName,brand,Product_for,Season,rate)values(%s,%s,%s,%s,%s,%s)"
        mycursor.execute(sql,product)
        mydb.commit()
        stk.append(pid)
        stk.append(0)
        stk.append("No")
        st=(stk)
        sql="insert into stock(item_id, Instock, status) values(%s,%s,%s)"
        mycursor.execute(sql,st)
        mydb.commit()
        print("One Product inserted ")

    def EditProduct():
        pid=input("Enter product ID to be edited : ")
        sql="select * from product where product_id=%s"
        ed=(pid,)
        mycursor.execute(sql,ed)
        res=mycursor.fetchall()
        for x in res:
            print(x)
        print("")
        fld=input("Enter the field which you want to edit : ")
        val=input("Enter the value you want to set : ")

        sql="Update product set " + fld +"='" + val + "' where product_id='" + pid + "'"
        sq=sql
        mycursor.execute(sql)
        print("Editing Don : ")
        print("After correction the record is  : ")
        sql="select * from product where product_id=%s"
        ed=(pid,)
        mycursor.execute(sql,ed)
        res=mycursor.fetchall()
        for x in res:
            print(x)
        mydb.commit()
```

```python
def DelProduct():
    pid=input("Enter the Product)id to be deleted : ")
    sql="delete from sales where item_id=%s"
    id=(pid,)
    mycursor.execute(sql,id)
    mydb.commit()
    sql="delete from purchase where item_id=%s"
    mycursor.execute(sql,id)
    mydb.commit()
    sql="delete from stock where item_id=%s"
    mycursor.execute(sql,id)
    mydb.commit()
    sql="delete from product where product_id=%s"
    mycursor.execute(sql,id)
    mydb.commit()
    print("One Item Deleted")

def ViewProduct():
    print("Display Menu: Select the category to display the data")
    print("1. All Details")
    print("2. Product Name:")
    print("3. Product Brand:")
    print("4. Product For:")
    print("5. Product Season:")
    print("6. Product ID:")
    x=0
    ch=int(input("Enter your choice to display : "))
    if ch==1:
        sql="select * from product"
        mycursor.execute(sql)
        res=mycursor.fetchall()
        for x in res:
            print(x)
        x=1
    elif ch==2:
        var='PName'
        val=input("Enter the name of Product : ")
    elif ch==3:
        var='brand'
        val=input("Enter the name of Brand : ")
    elif ch==4:
        var='Product_for'
        val=input("Enter Male/Femal/Kids : ")
    elif ch==5:
        var='season'
```

```python
            val=input("Enter the Season : ")
        elif ch==6:
            var='product_id'
            val=input("Enter the Product_id : ")
        if x==0:
            sql="select * from product where " + var + " = %s"
            sq=sql
            tp=(val,)
            mycursor.execute(sq,tp)
            res=mycursor.fetchall()
            for x in res:
                print(x)




    def PurchaseProduct():
        mn=""
        dy=""
        now=datetime.datetime.now()
        purchaseID="P"+str(now.year)+str(now.month)+str(now.day)+str(now.hour)+str(now.minute)+str(now.second)
        L=[]
        Lst=[]
        L.append(purchaseID)
        itemId=input("Enter Product ID : ")
        L.append(itemId)
        itemNo=int(input("Enter the number of Items : "))
        L.append(itemNo)
        sql="select rate from product where product_id=%s"
        pid=(itemId,)
        mycursor.execute(sql,pid)
        res=mycursor.fetchone()
        for x in res:
            print("rate is : ", x)
        amount=x*itemNo
        print("Amount is :", amount)
        L.append(amount)
        mnth=now.month
        if mnth<=9:
            mn="0"+str(mnth)
        else:
            mn=str(mnth)
        day=now.day
        if day<=9:
            dy="0"+str(day)
        else:
            dy=str(day)
```

```python
    dt=str(now.year)+"-"+mn+"-"+dy
    L.append(dt)
    tp=(L)
    sql="insert into purchase(purchase_id,item_id,no_of_items,amount,Purchase_date)values(%s,%s,%s,%s,%s)"
    mycursor.execute(sql,tp)
    mydb.commit()
    sql="Select Instock from stock where item_id=%s"
    mycursor.execute(sql,pid)
    res=mycursor.fetchall()
    status="No"
    for x in res:
        print(x)
    instock=x[0]+itemNo
    if instock>0:
        status="Yes"
    Lst.append(instock)
    Lst.append(status)
    Lst.append(itemId)
    tp=(Lst)
    sql="update stock set instock=%s,status=%s where item_id=%s"
    mycursor.execute(sql,tp)
    mydb.commit()
    print("1 Item purchased and saved in Database")

def ViewPurchase():
    item=input("Enter Product Name : ")
    sql="select product.product_id,
product.PName,product.brand,purchase.no_of_items,purchase.purchase_date,purchase.amount from product
INNER JOIN purchase ON product.product_id=purchase.item_id and product.PName=%s"
    itm=(item,)
    mycursor.execute(sql,itm)
    res=mycursor.fetchall()
    for x in res:
        print(x)

def ViewStock():
    item=input("Enter Product Name : ")
    sql="select product.product_id,product.PName,stock.Instock,\
    stock.status from stock, product where \
    product.product_id=stock.item_id and product.PName=%s"
    itm=(item,)
    mycursor.execute(sql,itm)
    res=mycursor.fetchall()
    for x in res:
        print(x)
```

```python
def SaleProduct():
    now=datetime.datetime.now()
    saleID="S"+str(now.year)+str(now.month)+str(now.day)+str(now.hour)+str(now.minute)+str(now.second)
    L=[]
    L.append(saleID)
    itemId=input("Enter Product ID : ")
    L.append(itemId)
    itemNo=int(input("Enter the number of Items : "))
    L.append(itemNo)
    sql="select rate from product where product_id=%s"
    pid=(itemId,)
    mycursor.execute(sql,pid)
    res=mycursor.fetchall()
    for x in res:
        print("The rate of item is :",x)
    dis=int(input("Enter the discount : "))
    saleRate=x[0]-(x[0]*dis/100)
    L.append(saleRate)
    amount=itemNo*saleRate
    L.append(amount)
    mnth=now.month
    if mnth<=9:
        mn="0"+str(mnth)
    else:
        mn=str(mnth)
    day=now.day
    if day<=9:
        dy="0"+str(day)
    else:
        dy=str(day)

    dt=str(now.year)+"-"+mn+"-"+dy
    L.append(dt)
    tp=(L)
    sql="insert into sales (sale_id, item_id,no_of_item_sold,\
    sale_rate,amount,date_of_sale) values(%s,%s,%s,%s,%s,%s)"
    mycursor.execute(sql,tp)
    mydb.commit()

    sql="Select Instock from stock where item_id=%s"
    mycursor.execute(sql,pid)
    res=mycursor.fetchall()

    for x in res:
        print("Total Items in Stock are : ",x)
    instock=x[0]-itemNo
```

```python
    if instock>0:
        status="Yes"
    tp=(instock,status,itemId)
    sql="update stock set instock=%s,status=%s where item_id=%s"
    print("Remaining Items in Stock are : ",instock)
    mycursor.execute(sql,tp)
    mydb.commit()

def ViewSales():
    item=input("Enter Product Name : ")
    sql="select product.product_id, product.PName,product.brand,\
    sales.no_of_item_sold,sales.date_of_sale,sales.amount \
    from sales, product where product.product_id=sales.item_id \
    and product.PName=%s"
    itm=(item,)
    mycursor.execute(sql,itm)
    res=mycursor.fetchall()
    for x in res:
        print(x)
def MenuSet(): #Function For The SFashion Store System
    print("Enter 1 : To Add Product ")
    print("Enter 2 : To Edit Product ")
    print("Enter 3 : To Delete Product ")
    print("Enter 4 : To View Product ")
    print("Enter 5 : To Purchase Product")
    print("Enter 6 : To View Purchases")
    print("Enter 7 : To View Stock Detials")
    print("Enter 8 : To Sale the item")
    print("Enter 9 : To View Sales Detials")

    try: #Using Exceptions For Validation
        userInput = int(input("Please Select An Above Option: ")) #Will Take Input From User
    except ValueError:
        exit("\nHy! That's Not A Number") #Error Message
    else:
        print("\n") #Print New Line
        if(userInput == 1):
            AddProduct()
        elif(userInput == 2):
            EditProduct()
        elif (userInput==3):
            DelProduct()
        elif (userInput==4):
            ViewProduct()
        elif (userInput==5):
            PurchaseProduct()
        elif (userInput==6):
```

```
            ViewPurchase()
         elif (userInput==7):
            ViewStock()
         elif (userInput==8):
            SaleProduct()
         elif (userInput==9):
            ViewSales()
         else:
            print("Enter correct choice. . .  ")


   print("*"*80)
   print("* * * * * * * Welcome to the Project of Fashion Store * * * * * * * ")
   print("* * * * Developed by: Neha Tyagi, PGT CS, KV no. 5 Jaipur : * * * * ")
   print("*"*80)
   print("")
   MenuSet()

   def runAgain():
      runAgn = input("\nwant To Run Again Y/n: ")
      while(runAgn.lower() == 'y'):
         if(platform.system() == "Windows"):
            print(os.system('cls'))
         else:
            print(os.system('clear'))
         MenuSet()
         runAgn = input("\nwant To Run Again Y/n: ")

   runAgain()
```

Output: (Main Menu)

```
********************************************************************************
* * * * * * * Welcome to the Project of Fashion Store * * * * * * *
* * * * Developed by: Neha Tyagi, PGT CS, KV no. 5 Jaipur : * * * *
********************************************************************************

Enter 1 : To Add Product
Enter 2 : To Edit Product
Enter 3 : To Delete Product
Enter 4 : To View Product
Enter 5 : To Purchase Product
Enter 6 : To View Purchases
Enter 7 : To View Stock Detials
Enter 8 : To Sale the item
Enter 9 : To View Sales Detials
Please Select An Above Option: |
```

(Add Product)

```
Enter 1 : To Add Product
Enter 2 : To Edit Product
Enter 3 : To Delete Product
```

(Edit Product)

```
Enter 1 : To Add Product
Enter 2 : To Edit Product
Enter 3 : To Delete Product
Enter 4 : To View Product
Enter 5 : To Purchase Product
Enter 6 : To View Purchases
Enter 7 : To View Stock Detials
Enter 8 : To Sale the item
Enter 9 : To View Sales Detials
Please Select An Above Option: 2


Enter product ID to be edited : P105
('P105', 'Kurta', 'Manyawar', 'Male', 'Summer', 1500)

Enter the field which you want to edit : season
Enter the value you want to set : Winter
Editing Don :
After correction the record is  :
('P105', 'Kurta', 'Manyawar', 'Male', 'Winter', 1500)

want To Run Again Y/n: |
```

(Delete Product)

```
Enter 1 : To Add Product
Enter 2 : To Edit Product
Enter 3 : To Delete Product
Enter 4 : To View Product
```

(View Product)

```
Enter 1 : To Add Product
Enter 2 : To Edit Product
Enter 3 : To Delete Product
Enter 4 : To View Product
Enter 5 : To Purchase Product
Enter 6 : To View Purchases
Enter 7 : To View Stock Detials
Enter 8 : To Sale the item
Enter 9 : To View Sales Detials
Please Select An Above Option: 4


Display Menu: Select the category to display the data
1. All Details
2. Product Name:
3. Product Brand:
4. Product For:
5. Product Season:
6. Product ID:
Enter your choice to display : 1
('P101', 'Lower', 'Lee', 'Male', 'Winter', 900)
('P102', 'TShirt', 'Polo', 'Male', 'Summer', 350)
('P103', 'Lower', 'Adidas', 'Kids', 'Summer', 250)
('P104', 'Leging', 'Lyra', 'Female', 'Summer', 300)
('P105', 'Kurta', 'Manyawar', 'Male', 'Winter', 1500)

want To Run Again Y/n: |
```

(Purchase Product)

```
Enter 1 : To Add Product
Enter 2 : To Edit Product
Enter 3 : To Delete Product
```

(View Purchase)

```
Enter 1 : To Add Product
Enter 2 : To Edit Product
Enter 3 : To Delete Product
Enter 4 : To View Product
Enter 5 : To Purchase Product
Enter 6 : To View Purchases
Enter 7 : To View Stock Detials
Enter 8 : To Sale the item
Enter 9 : To View Sales Detials
Please Select An Above Option: 6


Enter Product Name : Leging
('P104', 'Leging', 'Lyra', 20, datetime.date(2018, 12, 14), 6000)

want To Run Again Y/n: |
```

(View Stock Details)

```
Enter 1 : To Add Product
Enter 2 : To Edit Product
Enter 3 : To Delete Product
Enter 4 : To View Product
Enter 5 : To Purchase Product
Enter 6 : To View Purchases
Enter 7 : To View Stock Detials
Enter 8 : To Sale the item
Enter 9 : To View Sales Detials
Please Select An Above Option: 7


Enter Product Name : Lower
('P101', 'Lower', 5, 'Yes')
('P103', 'Lower', 0, 'No')

want To Run Again Y/n: |
```

(Sale Item)

```
Enter 1 : To Add Product
Enter 2 : To Edit Product
Enter 3 : To Delete Product
Enter 4 : To View Product
```

(View Sales Details)

```
Enter 1 : To Add Product
Enter 2 : To Edit Product
Enter 3 : To Delete Product
Enter 4 : To View Product
Enter 5 : To Purchase Product
Enter 6 : To View Purchases
Enter 7 : To View Stock Detials
Enter 8 : To Sale the item
Enter 9 : To View Sales Detials
Please Select An Above Option: 9


Enter Product Name : Leging
('P104', 'Leging', 'Lyra', 6, datetime.date(2018, 12, 14), 1620)

want To Run Again Y/n: |
```