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# STOCK MANAGEMENT

import os
import mysql.connector
import datetime
now = datetime.datetime.now()


def product_mgmt( ):
            while True :
                        print("\t\t\t 1. Add New Product")
                        print("\t\t\t 2. List Product")
                        print("\t\t\t 3. Update Product")
                        print("\t\t\t 4. Delete Product")
                        print("\t\t\t 5. Back (Main Menu)")
                        p=int (input("\t\tEnter Your Choice :"))
                        if p==1:
                                    add_product()
                        if p==2:
                                    search_product()
                        if p==3:
                                    update_product()
                        if p==4:
                                    delete_product()
                        if p== 5 :
                                    break

def purchase_mgmt( ):
            while True :
                        print("\t\t\t 1. Add Order")
                        print("\t\t\t 2. List Order")
                        print("\t\t\t 3. Back (Main Menu)")
                        o=int (input("\t\tEnter Your Choice :"))
                        if o==1 :
                                    add_order()
                        if o==2 :
                                    list_order()
                        if o== 3 :
                                    break

def sales_mgmt( ):
            while True :
                        print("\t\t\t 1. Sale Items")
                        print("\t\t\t 2. List Sales")
                        print("\t\t\t 3. Back (Main Menu)")
                        s=int (input("\t\tEnter Your Choice :"))
                        if s== 1 :
                                    sale_product()
                        if s== 2 :
                                    list_sale()
                        if s== 3 :
                                    break

def user_mgmt( ):
            while True :
                        print("\t\t\t 1. Add user")
                        print("\t\t\t 2. List user")
                        print("\t\t\t 3. Back (Main Menu)")
                        u=int (input("\t\tEnter Your Choice :"))
                        if u==1:
                                    add_user()
                        if u==2:
                                    list_user()
                        if u==3:
                                    break

def create_database():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="root",database="stock")
            mycursor=mydb.cursor()
            print(" Creating PRODUCT table")
            sql = "CREATE TABLE if not exists product (\
                   pcode int(4) PRIMARY KEY,\
                   pname char(30) NOT NULL,\
                   pprice float(8,2) ,\
                   pqty int(4) ,\
                   pcat char(30));"
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            mycursor.execute(sql)
            print(" Creating ORDER table")
            sql = "CREATE TABLE if not exists orders (\
                   orderid int(4)PRIMARY KEY ,\
                   orderdate DATE ,\
                   pcode char(30) NOT NULL , \
                   pprice float(8,2) ,\
                   pqty int(4) ,\
                   supplier char(50),\
                   pcat char(30));"
            mycursor.execute(sql)
            print(" ORDER table created")

            print(" Creating SALES table")
            sql = "CREATE TABLE if not exists sales (\
                   salesid int(4) PRIMARY KEY ,\
                   salesdate DATE ,\
                   pcode char(30) references product(pcode), \
                   pprice float(8,2) ,\
                   pqty int(4) ,\
                   Total double(8,2)\
                   );"
            mycursor.execute(sql)
            print(" SALES table created")
            sql = "CREATE TABLE if not exists user (\
                   uid char(6) PRIMARY KEY,\
                   uname char(30) NOT NULL,\
                   upwd char(30));"
            mycursor.execute(sql)
            print(" USER table created")

def list_database():
        mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
        mycursor=mydb.cursor()
        sql="show tables;"
        mycursor.execute(sql)
        for i in mycursor:
                   print(i)

def add_order():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            now = datetime.datetime.now()
            sql="INSERT INTO orders(orderid,orderdate,pcode,pprice,pqty,supplier,pcat) values (%s,%s,%s,%s,%s,%s,%s)"
            code=int(input("Enter product code :"))
            oid=now.year+now.month+now.day+now.hour+now.minute+now.second
            qty=int(input("Enter product quantity : "))
            price=float(input("Enter Product unit price: "))
            cat=input("Enter product category: ")
            supplier=input("Enter Supplier details: ")
            val=(oid,now,code,price,qty,supplier,cat)
            mycursor.execute(sql,val)
            mydb.commit()



def list_order():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            sql="SELECT * from orders"
            mycursor.execute(sql)
            clrscr()
            print("\t\t\t\t\t\t\t ORDER DETAILS")
            print("-"*85)
            print("orderid    Date    Product code    price     quantity      Supplier      Category")
            print("-"*85)
            for i in mycursor:
                       print(i[0],"\t",i[1],"\t",i[2],"\t   ",i[3],"\t",i[4],"\t     ",i[5],"\t",i[6])
            print("-"*85)


def db_mgmt( ):
            while True :
                       print("\t\t\t 1. Database creation")
                       print("\t\t\t 2. List Database")
                       print("\t\t\t 3. Back (Main Menu)")
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                        p=int (input("\t\tEnter Your Choice :"))
                        if p==1 :
                                    create_database()
                        if p==2 :
                                    list_database()
                        if p== 3 :
                                    break
def add_product():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            sql="INSERT INTO product(pcode,pname,pprice,pqty,pcat) values (%s,%s,%s,%s,%s)"
            code=int(input("\t\tEnter product code :"))
            search="SELECT count(*) FROM product WHERE pcode=%s;"
            val=(code,)
            mycursor.execute(search,val)
            for x in mycursor:
                        cnt=x[0]
            if cnt==0:
                        name=input("\t\tEnter product name :")
                        qty=int(input("\t\tEnter product quantity :"))
                        price=float(input("\t\tEnter product unit price :"))
                        cat=input("\t\tEnter Product category :")
                        val=(code,name,price,qty,cat)
                        mycursor.execute(sql,val)
                        mydb.commit()
            else:
                        print("\t\t Product already exist")
def update_product():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            code=int(input("Enter the product code :"))
            qty=int(input("Enter the quantity :"))
            sql="UPDATE product SET pqty=pqty+%s WHERE pcode=%s;"
            val=(qty,code)
            mycursor.execute(sql,val)
            mydb.commit()
            print("\t\t Product details updated")

def delete_product():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            code=int(input("Enter the product code :"))
            sql="DELETE FROM product WHERE pcode = %s;"
            val=(code,)
            mycursor.execute(sql,val)
            mydb.commit()
            print(mycursor.rowcount," record(s) deleted");
def search_product():

            while True :
                        print("\t\t\t 1. List all product")
                        print("\t\t\t 2. List product code wise")
                        print("\t\t\t 3. List product categoty wise")
                        print("\t\t\t 4. Back (Main Menu)")
                        s=int (input("\t\tEnter Your Choice :"))
                        if s==1 :
                                    list_product()
                        if s==2 :
                                     code=int(input(" Enter product code :"))
                                     list_prcode(code)

                        if s==3 :
                                     cat=input("Enter category :")
                                     list_prcat(cat)

                        if s== 4 :
                                    break

def list_product():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            sql="SELECT * from product"
            mycursor.execute(sql)
            clrscr()
            print("\t\t\t\t PRODUCT DETAILS")
            print("\t\t","-"*47)
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            print("\t\t code    name    price   quantity      category")
            print("\t\t","-"*47)
            for i in mycursor:
                        print("\t\t",i[0],"\t",i[1],"\t",i[2],"\t   ",i[3],"\t\t",i[4])
            print("\t\t","-"*47)


def list_prcode(code):
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            sql="SELECT * from product WHERE pcode=%s"
            val=(code,)
            mycursor.execute(sql,val)
            clrscr()
            print("\t\t\t\t PRODUCT DETAILS")
            print("\t\t","-"*47)
            print("\t\t code    name    price   quantity      category")
            print("\t\t","-"*47)
            for i in mycursor:
                        print("\t\t",i[0],"\t",i[1],"\t",i[2],"\t   ",i[3],"\t\t",i[4])
            print("\t\t","-"*47)


def sale_product():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            pcode=input("Enter product code: ")
            sql="SELECT count(*) from product WHERE pcode=%s;"
            val=(pcode,)
            mycursor.execute(sql,val)
            for x in mycursor:
                        cnt=x[0]
            if cnt !=0 :
                        sql="SELECT * from product WHERE pcode=%s;"
                        val=(pcode,)
                        mycursor.execute(sql,val)
                        for x in mycursor:
                                    print(x)
                                    price=int(x[2])
                                    pqty=int(x[3])
                        qty=int(input("Enter no of quantity :"))
                        if qty <= pqty:
                                    total=qty*price;
                                    print ("Collect  Rs. ", total)
                                    sql="INSERT into sales values(%s,%s,%s,%s,%s,%s)"
                                    val=(int(cnt)+1,datetime.datetime.now(),pcode,price,qty,total)
                                    mycursor.execute(sql,val)
                                    sql="UPDATE product SET pqty=pqty-%s WHERE pcode=%s"
                                    val=(qty,pcode)
                                    mycursor.execute(sql,val)
                                    mydb.commit()
                        else:
                                    print(" Quantity not Available")
            else:
                        print(" Product is not avalaible")

def list_sale():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            sql="SELECT * FROM sales"
            mycursor.execute(sql)
            print(" \t\t\t\tSALES DETAILS")
            print("-"*80)
            print("Sales id  Date    Product Code     Price             Quantity           Total")
            print("-"*80)
            for x in mycursor:
                        print(x[0],"\t",x[1],"\t",x[2],"\t   ",x[3],"\t\t",x[4],"\t\t",x[5])
            print("-"*80)


def list_prcat(cat):
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            print (cat)
            sql="SELECT * from product WHERE pcat =%s"
            val=(cat,)
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            mycursor.execute(sql,val)
            clrscr()
            print("\t\t\t\t PRODUCT DETAILS")
            print("\t\t","-"*47)
            print("\t\t code    name    price   quantity      category")
            print("\t\t","-"*47)
            for i in mycursor:
                        print("\t\t",i[0],"\t",i[1],"\t",i[2],"\t   ",i[3],"\t\t",i[4])
            print("\t\t","-"*47)

def add_user():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            uid=input("Enter emaid id :")
            name=input(" Enter Name :")
            paswd=input("Enter Password :")
            sql="INSERT INTO user values (%s,%s,%s);"
            val=(uid,name,paswd)
            mycursor.execute(sql,val)
            mydb.commit()
            print(mycursor.rowcount, " user created")


def list_user():
            mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
            mycursor=mydb.cursor()
            sql="SELECT uid,uname from user"
            mycursor.execute(sql)
            clrscr()
            print("\t\t\t\t USER DETAILS")
            print("\t\t","-"*27)
            print("\t\t UID        name    ")
            print("\t\t","-"*27)
            for i in mycursor:
                        print("\t\t",i[0],"\t",i[1])
            print("\t\t","-"*27)

def clrscr():
             print("\n"*5)


while True:
            clrscr()
            print("\t\t\t STOCK MANAGEMENT")
            print("\t\t\t ****************\n")
            print("\t\t 1. PRODUCT MANAGEMENT")
            print("\t\t 2. PURCHASE MANAGEMENT")
            print("\t\t 3. SALES MANAGEMENT")
            print("\t\t 4. USER MANAGEMENT")
            print("\t\t 5. DATABASE SETUP")
            print("\t\t 6. EXIT\n")
            n=int(input("Enter your choice :"))
            if n== 1:
                        product_mgmt()
            if n== 2:
                        os.system('cls')
                        purchase_mgmt()
            if n== 3:
                        sales_mgmt()
            if n== 4:
                        user_mgmt()
            if n==5 :
                        db_mgmt()
            if n== 6:
                        break
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