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# Add order function with salesid logic
import datetime
import mysql.connector as m
conn=m.connect(host="localhost",user="root",passwd="moksh24",database="stock")
if conn.is_connected()==False:
     print("Error In Establishing Databases Connection")
else:
     print("Database Connection Has Been Established Sucessfully")
cursor=conn.cursor()

def product_management():
    print("----------------")
    print("1.ADD NEW PRODUCT")
    print("2.LIST PRODUCT")
    print("3.UPDATE PRODUCT")
    print("4.DELETE PRODUCT")
    print("5.BACK TO MAIN MENU(EXIT)")
    print("----------------")
    p=int(input("Enter Your Choice(1-5)"))
    if p==1:
     add_product()
    if p==2:
     search_product()
    if p==3:
     update_product()
    if p==4:
     delete_product()
    if p==5:
     print("BACK TO MAIN MENU")
     print("-----------------")
def add_product():
     mydb=m.connect(host="localhost",user="root",passwd="moksh24",database="stock
")
     mycursor=mydb.cursor()
     sql="INSERT INTO product(pcode,pname,pprice,pqty,cat) values
(%s,%s,%s,%s,%s)"
     code=int(input("Enter 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("Enter product name:")
          qty=int(input("Enter product quantity:"))
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          price=float(input("Enter product unit price:"))
          cat=input("Enter Product category:")
          val=(code,name,price,qty,cat)
          mycursor.execute(sql,val)
          mydb.commit()
     else:
         print("\t\t Product already exist")

def list_product():
     mydb=m.connect(host="localhost",user="root",passwd="moksh24",database="stock
")
     mycursor=mydb.cursor()
     sql="SELECT * from product"
     mycursor.execute(sql)
     print("PRODUCT DETAILS")
     print("code","","name","","price","","quantity","","category")
     for i in mycursor:
         print(i[0],"",i[1],"",i[2],"",i[3],"",i[4])

def update_product():
           mydb=m.connect(host="localhost",user="root",passwd="moksh24",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("Product details updated")

def delete_product():
     mydb=m.connect(host="localhost",user="root",passwd="moksh24",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")
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          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_prcode(code):
     mydb=m.connect(host="localhost",user="root",passwd="moksh24",database="stock
")
     mycursor=mydb.cursor()
     sql="SELECT * from product WHERE pcode=%s"
     val=(code,)
     mycursor.execute(sql,val)
     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 list_prcat(cat):
           mydb=m.connect(host="localhost",user="root",passwd="moksh24",database=
"stock")
           mycursor=mydb.cursor()
           print (cat)
           sql="SELECT * from product WHERE cat =%s"
           val=(cat,)
           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:
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                    print("\t\t",i[0],"\t",i[1],"\t",i[2],"\t   ",i[3],"\t\t",i
[4])
          print("\t\t","-"*47)
def clrscr():
           print("\n"*5)

def list_order():
    mydb=m.connect(host="localhost",user="root",passwd="moksh24",database="stock
")
    mycursor=mydb.cursor()
    sql="SELECT*from orders"
    mycursor.execute(sql)
    print("ORDER DETAILS")
    for i in mycursor:
        print("orderid    Date    Product
code    price     quantity      Supplier      Category")
        print(i[0],"",i[1],"",i[2],"",i[3],"",i[4],"",i[5],"",i[6])
def purchase_management():
    while True:
        print("----------------")
        print("1. ADD ORDER")
        print("2. LIST ORDER")
        print("3. BACK-TO-MAIN-MENU (EXIT)")
        print("----------------")
        p = int(input("Enter Your Choice (1-3): "))

        if p == 1:
            add_order()
        elif p == 2:
            list_order()
        elif p == 3:
            print("BACK TO MAIN MENU")
            break
        else:
            print("Invalid choice, please try again.")

def add_order():
    try:
        mydb=m.connect(host="localhost",user="root",passwd="moksh24",database="s
tock")
        mycursor=mydb.cursor()
        # Fetch the last orderid from the orders table (or salesid if that makes
more sense)
        sql1 = "SELECT MAX(orderid) FROM orders;"
        mycursor.execute(sql1)
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        c = mycursor.fetchone()
        # If there are no orders, start from orderid = 1, otherwise increment
the last orderid by 1
        last = c[0] if c[0] is not None else 0
        orderid = int(last) + 1  # This could also be salesid, if that's your
intention.
        sql = "INSERT INTO orders(orderid, orderdate, pcode, pprice, pqty,
supplier, pcat) values (%s, %s, %s, %s, %s, %s, %s)"
        # Get other order details from the user
        code = int(input("Enter product code: "))
        qty = int(input("Enter product quantity: "))
        price = float(input("Enter Product unit price: "))
        cat = input("Enter product category: ")
        supplier = input("Enter Supplier details: ")
        # Insert the new order with the generated orderid
        val = (orderid, datetime.date.today(),code,price, qty,supplier, cat)
        mycursor.execute(sql, val)
        mydb.commit()
        print(f"Order added successfully with Order ID: {orderid}")
    except Exception as e:
        print(f"Error: {e}")
    finally:
        mydb.close()

# List orders function
def list_order():
    try:
        mydb=m.connect(host="localhost",user="root",passwd="moksh24",database="st
ock")
        mycursor=mydb.cursor()

        sql = "SELECT * FROM orders"
        mycursor.execute(sql)

        print("ORDER DETAILS")
        print("-------------------------------------------------------------")
        print("orderid    Date       Product
code    price    quantity    Supplier    Category")
        print("-------------------------------------------------------------")

        for i in mycursor:
            print(i[0], " ", i[1], " ", i[2], " ", i[3], " ", i[4], " ", i[5], "
", i[6])

    except Exception as e:
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        print(f"Error: {e}")
    finally:
        mydb.close()

def user_management():
    print("----------------")
    print("1.ADD UDER")
    print("2.LIST USER")
    print("3.BACK-TO-MAIN-MENU(EXIT)")
    print("----------------")
    p=int(input("Enter Your Choice(1-3)"))
    if p==1:
       add_user()

    if p==2:
       list_user()

def add_user():
     mydb=m.connect(host="localhost",user="root",passwd="moksh24",database="stock
")
     mycursor=mydb.cursor()
     uid=input("Enter emaid id :")
     name=input(" Enter Name :")
     paswd=input("Enter Password :")
     sql="INSERT INTO users    values (%s,%s,%s);"
     val=(uid,name,paswd)
     mycursor.execute(sql,val)
     mydb.commit()
     print(mycursor.rowcount, " user created")

def list_user():
     mydb=m.connect(host="localhost",user="root",passwd="moksh24",database="stock
")
     mycursor=mydb.cursor()
     sql="SELECT uid,name from users"
     mycursor.execute(sql)
     print("USER DETAILS")
     print("","-"*27)
     print("\t\t UID        name    ")
     print("\t\t","-"*27)
     for i in mycursor:
          print("\t\t",i[0],"\t",i[1])
          print("\t\tx","-"*27)

def sales_management():
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    print("----------------")
    print("1.SALES ITEM")
    print("2. LIST ITEMS")
    print("BACK-TO-MAIN-MENU(EXIT)")
    print("----------------")
    p=int(input("Enter Your Choice(1-3)"))
    if p==1:
       sale_product()
    if p==2:
       list_sale()
def sale_product():
     mydb=m.connect(host="localhost",user="root",passwd="moksh24",database="stock
")
     mycursor=mydb.cursor()
     # Get the product code from user input
     pcode = input("Enter product code: ")

     # Check if the product exists in the product table
     sql = "SELECT count(*) FROM product WHERE pcode=%s;"
     val = (pcode,)
     mycursor.execute(sql, val)

     # Fetch the count of matching products
     cnt = mycursor.fetchone()[0]

     if cnt != 0:
          sql = "SELECT * FROM product WHERE pcode=%s;"
          mycursor.execute(sql, val)
          product = mycursor.fetchone()
          if product:
               print(product)
               price = int(product[2])  # Assuming price is the 3rd column
               pqty = int(product[3])   # Assuming quantity is the 4th column
               qty = int(input("Enter number of quantity: "))
               if qty <= pqty:
                    total = qty * price
                    print(f"Collect Rs. {total}")
                    sql1 = "SELECT MAX(salesid) FROM sales;"
                    mycursor.execute(sql1)
                    c = mycursor.fetchone()
                    last = c[0] if c[0] is not None else 0
                    salesid = int(last) + 1
                    sql = "INSERT INTO sales VALUES (%s, %s, %s, %s, %s, %s);"
                    val = (salesid, datetime.date.today(), pcode, price, qty,
total)
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                    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 details not found.")
     else:
          print("Product is not available.")

def list_sale():
     mydb=m.connect(host="localhost",user="root",passwd="moksh24",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\t",x[2],"\t",x[3],"\t",x[4],"\t\t",x[5])
          print("-"*80)

def db_management( ):
     while True :
          print("\t\t\t 1. Database creation")
          print("\t\t\t 2. List Database")
          print("\t\t\t 3. Back (Main Menu)")
          p=int (input("\t\tEnter Your Choice :"))
          if p==1 :
               create_database()
          if p==2:
               list_database()
          if p== 3 :
              break
def create_database():
     print(" Creating PRODUCT table")
     sql1 = "CREATE TABLE if not exists product (pcode char(30) PRIMARY KEY,pname
char(20),pprice float,pqty int,cat varchar(20));"
     cursor.execute(sql1)
     print("Product Table Created Sucesfully")
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     print()
     print(" Creating ORDER table")
     print()
     cursor.execute("USE STOCK;")
     sql="CREATE TABLE if not exists orders (orderid INT AUTO_INCREMENT PRIMARY
KEY,orderdate DATE NOT NULL,pcode INT NOT NULL,pprice FLOAT NOT NULL,pqty INT NOT
NULL,supplier VARCHAR(255) NOT NULL,pcat VARCHAR(255) NOT NULL);"
     cursor.execute(sql)
     print()
     print(" Creating SALES table")
     cursor.execute("USE STOCK;")
     sql="CREATE TABLE if not exists sales (salesid varchar(40) PRIMARY
KEY,salesdate varchar(40),pcode char(30) references product(pcode),pprice
float(8,2),pqty int(4),Total double(8,2));"
     cursor.execute(sql)
     print()

     print(" Creating USERS table")
     cursor.execute("USE STOCK;")
     sql="CREATE TABLE  if not exists users (uid VARCHAR(255) PRIMARY KEY,name
VARCHAR(255) NOT NULL,paswd VARCHAR(255) NOT NULL);"
     cursor.execute(sql)
     print()

def list_database():
     mydb=m.connect(host="localhost",user="root",passwd="moksh24",database="stock
")
     mycursor=mydb.cursor()
     sql="show tables;"
     mycursor.execute(sql)
     for i in mycursor:
          print(i)

while True:
     print("STOCK MANAGEMENT")
     print("----------------")
     print("1.PRODUCT MANAGEMENT")
     print("2.PURCHASE MANAGEMENT")
     print("3.SALES MANAGEMENT")
     print("4.USER MANAGEMENT")
     print("5.DATABASE SETUP")
     print("6.Exit")
     print("----------------")
     x=int(input("Enter Your Choice(1-6)"))
     print("-----------------------")
```

```
    if x==1:
         product_management()
    if x==2:
         purchase_management()
    if x==3:
         sales_management()
    if x==4:
         user_management()
    if x==5:
         db_management()
    if x==6:
        break
```