Thapar Institute of Engineering and Technology

Department of Computer Science and Engineering

Fashion Store Management System

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Declaration

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April 28, 2025

Abstract

The Fashion Store Management System is designed to streamline the operations of a retail clothing business by providing efficient management of customer data, employee records, supplier inventories, sales, and purchase transactions. The primary objective of this project is to develop a lightweight backend system using Python, integrating MySQL for secure and reliable data storage. The system establishes multiple normalized relational tables to maintain data integrity and minimize redundancy, allowing for quick re- trieval and updates.

The project involves the development of modular Python scripts that connect to the MySQL database, automate the creation of tables, and offer interactive operations such as adding customers, recording sales, managing supplier inventory, and tracking purchases.

The results show that the system successfully handles all core backend functionalities expected from a retail management platform. It demonstrates effective transaction management, relational mapping, and normalization compliance to ensure data consistency.

In conclusion, the project achieves its aim of building a basic yet ex- tendable backend system for fashion store management, providing a strong foundation for future scaling or integration with a frontend user interface.

Keywords: Fashion Store Management, Backend Development, Python, MySQL, Database Normalization
Word Count: 225 words
GitLab Link: https://github.com/SiddharthM2416/Clothing-Store-Inventory-Management

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List of Abbreviations

Abbreviation	Full Form
DBMS	Database Management System
SQL	Structured Query Language
ER	Entity-Relationship
PK	Primary Key
FK	Foreign Key
CRUD	Create, Read, Update, Delete
GUI	Graphical User Interface (if used)
MySQL	My Structured Query Language
ID	Identification Number

Chapter 1

Problem Statement

1.1 Summary

The fashion industry has grown rapidly, resulting in the need for efficient management of customers, suppliers, employees, garments, sales, and pur- chase operations. Traditional paper-based management systems are out- dated, prone to errors, and inefficient in handling bulk operations.

The main objectives of the Fashion Store Management System are:

- To store and manage customer details such as name, address, and con- tact information.
- To manage suppliers and the materials they provide.
- To maintain an inventory of garments, including their type, quantity, and price.
- To manage employee information, including their salaries and commis- sions.
- To record sales transactions between employees and customers.
- To maintain purchase records from suppliers for inventory replenish- ment.

The system will use a relational database management system (RDBMS) approach to manage all the information efficiently.

Chapter 2 Entity Relationship Model of the Project

2.1 Summary

The ER diagram models a Garment Business Management System including entities:

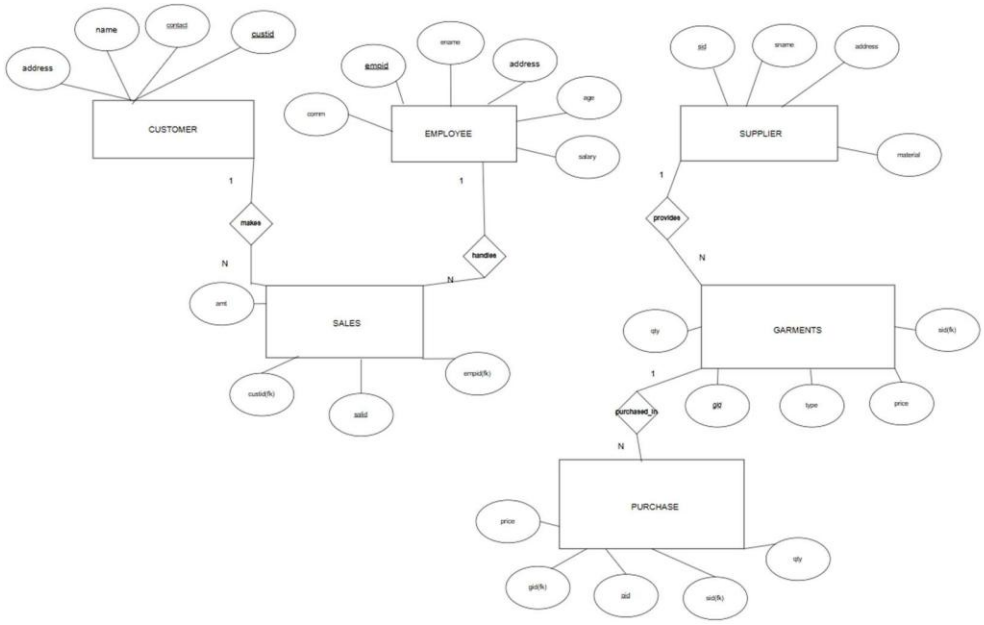
- Customer (custid, name, contact, address)
- Employee (empid, ename, address, age, salary, comm)
- Supplier (sid, sname, address, contact, material)
- Garments (gid, type, price, sid)
- Sales (saleid, amt, custid, empid) • Purchase (pid, price, qty, gid, sid)

  Relationships:
- A Customer makes many Sales.
- An Employee handles many Sales.
- A Supplier provides many Garments.
- Garments are purchased through Purchase transactions.

Chapter 2.1

Entity Relationship Model of the Project

Diagram



Chapter 3 Methodology

3.1 Summary

1. Requirement Analysis: Identified the core requirements.
2. System Design: Designed an E-R Diagram and relational schema.
3. Database Normalization: Structured according to 1NF, 2NF, and 3NF.
4. Database Implementation: Created tables using MySQL.
5. Backend Development: Developed Python scripts with MySQL connector.
6. Testing and Validation: CRUD operations were performed and tested.
7. Final Review and Documentation: Prepared final report.

Chapter 4

E-R Model to Relational Model

4.1 Summary

Sample table creation scripts:

Customer= "CREATE TABLE IF NOT EXIST
CUSTOMER(custid int auto_increment,
name varchar(20),
address varchar(15),
contact char(10),
primary key(custid,contact));"

1. CUSTOMER

Column Name	Data Type	Constraints
custid	INT	AUTO_INCREMENT, PK
name	VARCHAR(20)	
address	VARCHAR(15)	
contact	CHAR(10)	PK

> **Primary Key** → (`custid` , `contact`) (composite key)

```
supplier="CREATE TABLE if not exists
SUPPLIER(sid int auto_increment primary key,
sname varchar(20),
address varchar(15),
material varchar(10));"
```

2. SUPPLIER

Column Name	Data Type	Constraints
sid	INT	AUTO_INCREMENT, PK
sname	VARCHAR(20)	
address	VARCHAR(15)	
material	VARCHAR(10)	

```
garments="CREATE TABLE if not exists GARMENTS(
gid int auto_increment primary key,
type varchar(20),
qty int,
price int,
sid int references supplier.sid);"
```

3. GARMENTS

Column Name	Data Type	Constraints
gid	INT	AUTO_INCREMENT, PK
type	VARCHAR(20)	
qty	INT	
price	INT	
sid	INT	FK → SUPPLIER(sid)

```
employee="CREATE TABLE if not exists
EMPLOYEE( empid int auto_increment primary
key, ename varchar(20), address varchar(15),
age int,
salary int, comm
decimal(2,2));"
```

4. EMPLOYEE

Column Name	Data Type	Constraints
empid	INT	AUTO_INCREMENT, PK
ename	VARCHAR(20)	
address	VARCHAR(15)	
age	INT	
salary	INT	
comm	DECIMAL(2,2)	

```
sales="CREATE TABLE if not exists
SALES( salid int auto_increment primary
key, custid int references customer.custid,
empid int references employee.empid,
amt int);"
```

5. SALES

Column Name	Data Type	Constraints
salid	INT	AUTO_INCREMENT, PK
custid	INT	FK → CUSTOMER(custid)
empid	INT	FK → EMPLOYEE(empid)
amt	INT	

```
purchase="CREATE TABLE if not exists
PURCHASE(\ pid int auto_increment primary
key,\ sid int references supplier.sid,\ gid int
references garments.gid,\
price int,\ qty
int);"
```

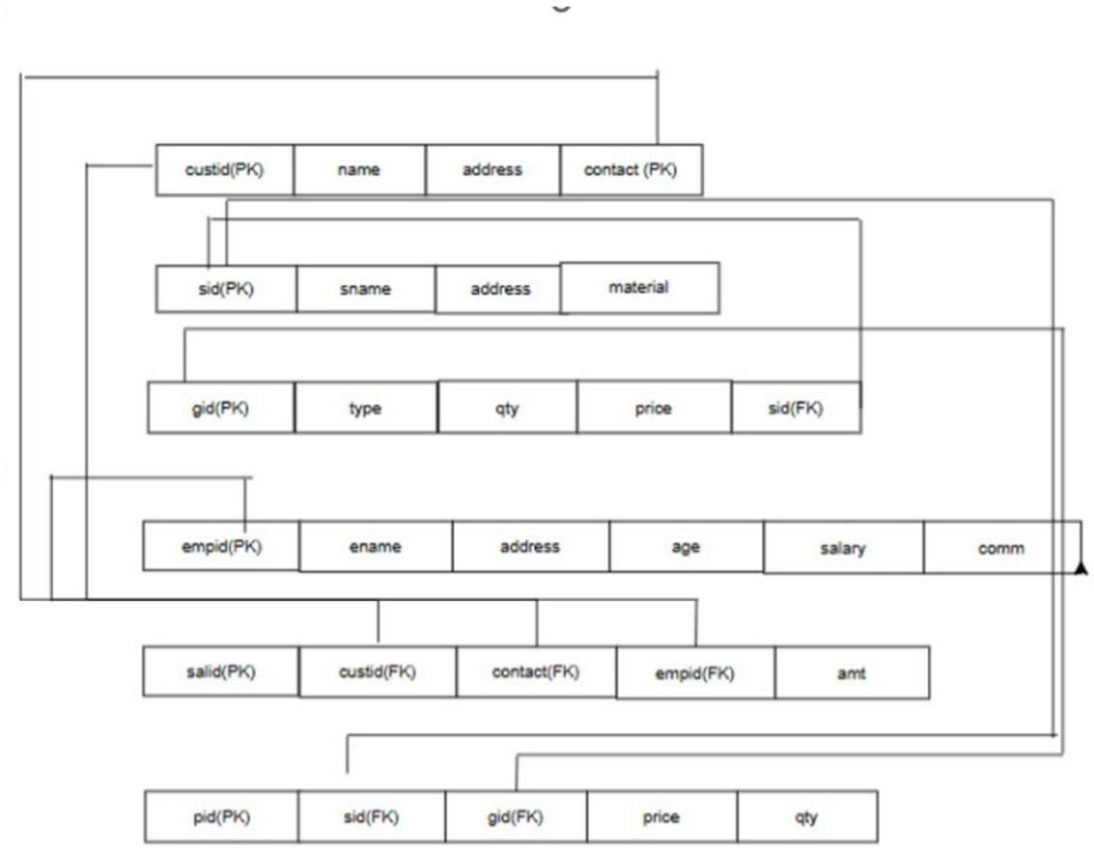
6. PURCHASE

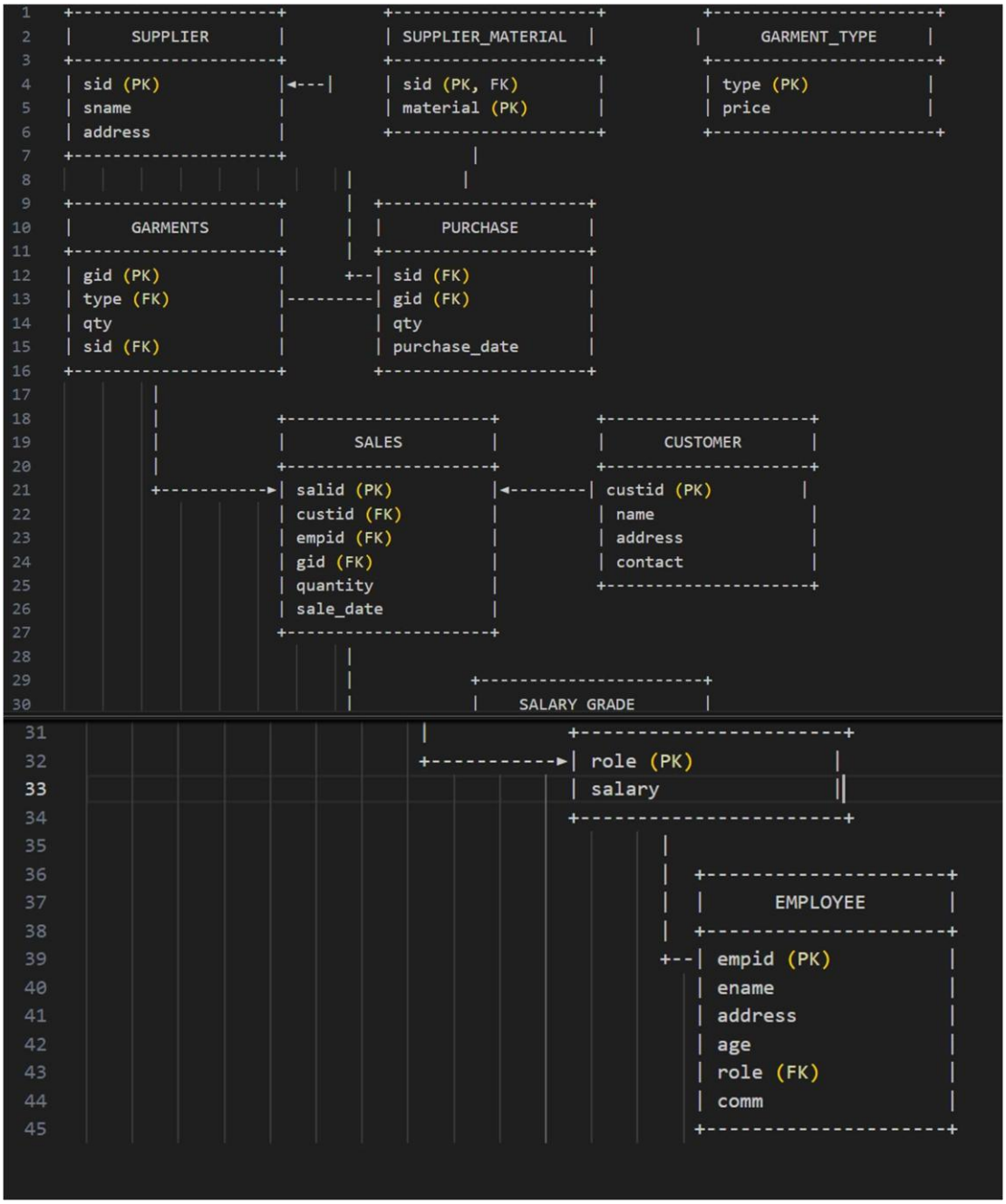
Column Name	Data Type	Constraints
pid	INT	AUTO_INCREMENT, PK
sid	INT	FK → SUPPLIER(sid)
gid	INT	FK → GARMENTS(gid)
price	INT	
qty	INT	

Chapter 5 Normalized Tables and Discussion

5.1 Summary

The database has been normalised up to Third Normal Form (3nf). All tables have atomic attributes (1NF), full functional dependency on the primary key (2NF), and no transitive dependencies (3NF). Foreign keys maintain referential integrity across related tables. As a result, the database structure avoids redundancy, ensures data consistency, and prevents update, insert, and delete anomalies.




SUPPLIER
sid (PK)
sname
address
SUPPLIER_MATERIAL
sid (PK, FK)
material (PK)
GARMENT_TYPE
type (PK)
price
GARMENTS
gid (PK)
type (FK)
qty
sid (FK)
PURCHASE
sid (FK)
gid (FK)
qty
purchase_date
SALES
salid (PK)
custid (FK)
empid (FK)
gid (FK)
quantity
sale_date
CUSTOMER
custid (PK)
name
address
contact
SALARY GRADE
role (PK)
salary
EMPLOYEE
empid (PK)
ename
address
age
role (FK)
comm

Chapter 6 PL/SQL Snapshots

```
import mysql.connector
mydb=mysql.connector.connect(host='localhost',user='root'\
                             ,passwd='admin',auth_plugin="mysql_native_password")
mycursor=mydb.cursor()
mycursor.execute("USE cltstr;")


#To Add a new customer
def addcust(name,address,contact):
    val=(name,address,contact)
    ins="INSERT INTO customer(name,address,contact) VALUES (%s,%s,%s);"
    mycursor.execute(ins,val)
    mydb.commit()

#To add a new supplier
def addsupp(name,address,material):
    val=(name, address, material)
    ins="INSERT INTO supplier(sname,address,material) VALUES (%s,%s,%s);"
    mycursor.execute(ins, val)
    mydb.commit()

#To add a new type of Garment
def addgarment(t,qty,price,sid):
    a=(t,qty,price,sid)
    mycursor.execute("INSERT INTO garments(type,qty,price,sid) VALUES(%s,%s,%s,%s);", a)
    mydb.commit()


#To add a new employee
def addemp(name,address,age,sal,comm):
    ins="INSERT INTO employee(ename,address,age,salary,comm) VALUES(%s,%s,%s,%s,%s);"
    val=(name, address, age, sal, comm)
    mycursor.execute(ins, val)
    mydb.commit()

#To record new sales
def newsale(l1, contact, empid):
    mycursor.execute("SELECT gid FROM garments;")
    l2 = mycursor.fetchall()
    l1 = [i for i in l1 if (i,) in l2]  # Validate garment IDs

    mycursor.execute("SELECT contact FROM customer;")
    c = mycursor.fetchall()
    if (contact,) not in c:
        raise Exception("Customer not found. Please add customer first.")

    mycursor.execute("SELECT empid FROM employee;")
    e = mycursor.fetchall()
    if (empid,) not in e:
        raise Exception("Invalid Employee ID.")

    mycursor.execute("SELECT custid FROM customer WHERE contact = %s;", (contact,))
    cid = mycursor.fetchone()[0]
```

```
  amt = 0
  for i in l1:
      mycursor.execute("SELECT price FROM garments WHERE gid = %s;", (i,))
      p = mycursor.fetchone()[0]
      amt += p
      mycursor.execute("UPDATE garments SET qty = qty - 1 WHERE gid = %s;", (i,))
      mydb.commit()

  vals = (cid, empid, amt)
  q = "INSERT INTO sales(custid, empid, amt) VALUES (%s, %s, %s);"
  mycursor.execute(q, vals)
  mydb.commit()
```

```
#To record a new purchase from suppliers to store
def newpurchase(sid, gid, price, qty):
    mycursor.execute("SELECT sid FROM supplier;")
    s = mycursor.fetchall()
    if (sid,) not in s:
        raise Exception("Invalid Supplier ID.")

    mycursor.execute("SELECT gid FROM garments WHERE sid = %s;", (sid,))
    g = mycursor.fetchall()
    if (gid,) not in g:
        raise Exception("Invalid Garment ID for given Supplier.")

    ins = "INSERT INTO purchase(sid, gid, price, qty) VALUES (%s, %s, %s, %s);"
    val = (sid, gid, price, qty)
    mycursor.execute(ins, val)
    mydb.commit()

    mycursor.execute("UPDATE garments SET qty = qty + (%s) WHERE gid = (%s);", (qty, gid))
    mydb.commit()
```

```
def nets():#To check Total sales
    mycursor.execute("select sum(amt) from sales;")
    amt=mycursor.fetchone()[0]
    return amt

def netp():#To check Total purchases
    mycursor.execute("select sum(price) from purchase;")
    amt=mycursor.fetchone()[0]
    return amt

def allsales(): #To open a list of all sales
    mycursor.execute("Select sales.*, employee.ename from sales JOIN \
employee ON sales.empid=employee.empid;")
    s=mycursor.fetchall()
    return s

def allpurchase(): #To open a list of all purchases
    mycursor.execute("Select purchase.*, supplier.sname from purchase \
JOIN supplier ON purchase.sid=supplier.sid;")
    s=mycursor.fetchall()
    return s


def rememp(empid): #To remove an employee
    mycursor.execute("delete from employee where empid=(%s);",(empid,))
    mydb.commit()
```

Frontend

```
import tkinter as tk
from tkinter import ttk
from tkinter import messagebox
import tables
import processes  # Backend connection

root = tk.Tk()
root.title("Clothing Store Management System")
root.geometry("800x600")
root.config(bg="white")

# Function to clear the frame
def clear_frame():
    for widget in root.winfo_children():
        widget.destroy()
```

```
# Home Page
def home():
    clear_frame()
    title = tk.Label(root, text="Clothing Store Management", font=("Arial", 24, "bold"), bg="white")
    title.pack(pady=20)

    button_frame = tk.Frame(root, bg="white")
    button_frame.pack()

    options = [
        ("Add Customer", add_customer_page),
        ("Add Employee", add_employee_page),
        ("Add Supplier", add_supplier_page),
        ("Add Garment", add_garment_page),
        ("New Sale", new_sale_page),
        ("New Purchase", new_purchase_page),
        ("Net Sales", view_net_sales),
        ("Net Purchases", view_net_purchases),
        ("View All Sales", view_all_sales),
        ("View All Purchases", view_all_purchases),
        ("Remove Employee", remove_employee_page),
    ]

    for idx, (text, command) in enumerate(options):
        btn = tk.Button(button_frame, text=text, command=command, width=20, height=2,\
                        bg="lightblue", font=("Arial", 12))
        btn.grid(row=idx//2, column=idx%2, padx=20, pady=10)
# Go to Home Button
def go_home_button():
    home_btn = tk.Button(root, text="Go to Home", command=home, bg="orange", font=("Arial", 12, "bold"))
    home_btn.pack(pady=10)

# Add Customer Page
def add_customer_page():
    clear_frame()
    tk.Label(root, text="Add Customer", font=("Arial", 20), bg="white").pack(pady=20)

    name = tk.Entry(root, width=30)
    address = tk.Entry(root, width=30)
    contact = tk.Entry(root, width=30)

    tk.Label(root, text="Name", font=("Arial", 12), bg="white").pack()
    name.pack()
    tk.Label(root, text="Address", font=("Arial", 12), bg="white").pack()
    address.pack()
    tk.Label(root, text="Contact (10 digits)", font=("Arial", 12), bg="white").pack()
    contact.pack()
```

```
    def submit():
        try:
            if len(contact.get()) != 10:
                raise ValueError("Contact must be 10 digits")
            processes.addcust(name.get(), address.get(), contact.get())  \
                                        # Passing collected data to backend
            messagebox.showinfo("Success", "Customer added successfully!")
            home()
        except Exception as e:
            messagebox.showerror("Error", str(e))

    tk.Button(root, text="Submit", command=submit, bg="lightgreen", font=("Arial", 12)).pack(pady=20)
    go_home_button()

# Add Employee Page
def add_employee_page():
    clear_frame()
    tk.Label(root, text="Add Employee", font=("Arial", 20), bg="white").pack(pady=20)

    name = tk.Entry(root, width=30)
    address = tk.Entry(root, width=30)
    age = tk.Entry(root, width=30)
    salary = tk.Entry(root, width=30)
    comm = tk.Entry(root, width=30)

    fields = [("Name", name), ("Address", address), ("Age", age), ("Salary", salary),\
              ("Commission", comm)]
    for label, entry in fields:
        tk.Label(root, text=label, font=("Arial", 12), bg="white").pack()
        entry.pack()

    def submit():
        try:
            processes.addemp(name.get(), address.get(), int(age.get()), int(salary.get()),\
                             float(comm.get()))  # Pass data to backend
            messagebox.showinfo("Success", "Employee added successfully!")
            home()
        except Exception as e:
            messagebox.showerror("Error", str(e))

    tk.Button(root, text="Submit", command=submit, bg="lightgreen", font=("Arial", 12)).pack(pady=20)
    go_home_button()

# Add Supplier Page
def add_supplier_page():
    clear_frame()
    tk.Label(root, text="Add Supplier", font=("Arial", 20), bg="white").pack(pady=20)

    name = tk.Entry(root, width=30)
    address = tk.Entry(root, width=30)
    material = tk.Entry(root, width=30)
    for label, entry in [("Name", name), ("Address", address), ("Material Type", material)]:
        tk.Label(root, text=label, font=("Arial", 12), bg="white").pack()
        entry.pack()

    def submit():
        try:
            processes.addsupp(name.get(), address.get(), material.get())  # Pass data to backend
            messagebox.showinfo("Success", "Supplier added successfully!")
            home()
        except Exception as e:
            messagebox.showerror("Error", str(e))

    tk.Button(root, text="Submit", command=submit, bg="lightgreen", font=("Arial", 12)).pack(pady=20)
    go_home_button()

# Add Garment Page
def add_garment_page():
    clear_frame()
    tk.Label(root, text="Add Garment", font=("Arial", 20), bg="white").pack(pady=20)

    gtype = tk.Entry(root, width=30)
    qty = tk.Entry(root, width=30)
    price = tk.Entry(root, width=30)
    sid = tk.Entry(root, width=30)
```

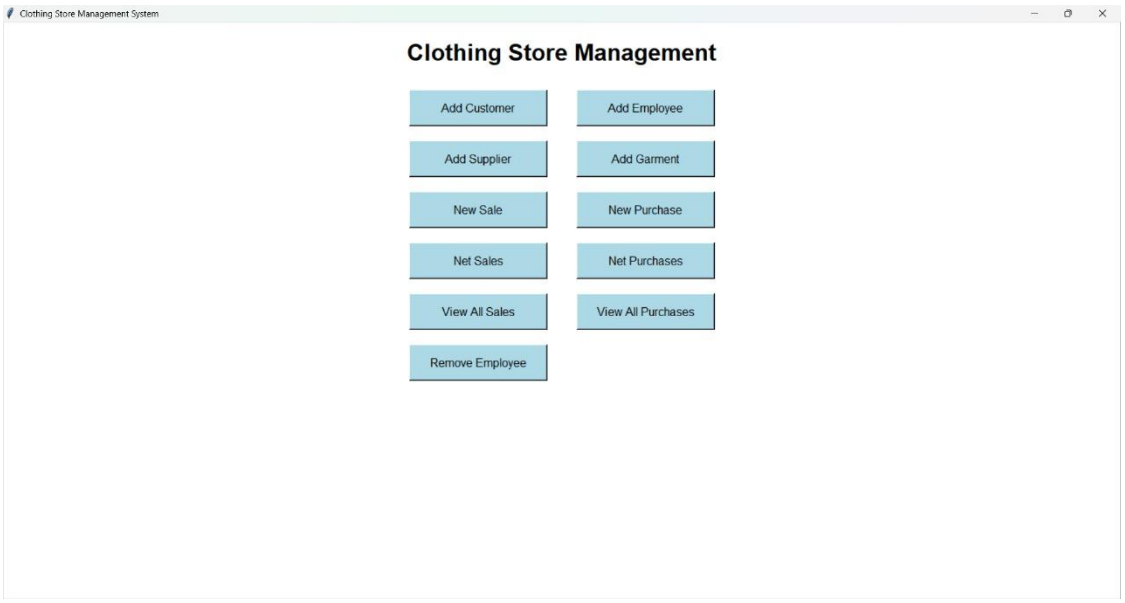
```
    for label, entry in [("Type", gtype), ("Quantity", qty), \
                         ("Price per Unit", price), ("Supplier ID", sid)]:
        tk.Label(root, text=label, font=("Arial", 12), bg="white").pack()
        entry.pack()

    def submit():
        try:
            processes.addgarment(gtype.get(), int(qty.get()), int(price.get()), int(sid.get()))\
                                                # Pass data to backend
            messagebox.showinfo("Success", "Garment added successfully!")
            home()
        except Exception as e:
            messagebox.showerror("Error", str(e))

    tk.Button(root, text="Submit", command=submit, bg="lightgreen", font=("Arial", 12)).pack(pady=20)
    go_home_button()

# New Sale Page
def new_sale_page():
    clear_frame()
    tk.Label(root, text="New Sale", font=("Arial", 20), bg="white").pack(pady=20)

    gids = tk.Entry(root, width=50)
    contact = tk.Entry(root, width=30)
    empid = tk.Entry(root, width=30)

    tk.Label(root, text="Enter Garment IDs (comma separated)", font=("Arial", 12), bg="white").pack()
    gids.pack()
    tk.Label(root, text="Customer Contact No.", font=("Arial", 12), bg="white").pack()
    contact.pack()
    tk.Label(root, text="Employee ID", font=("Arial", 12), bg="white").pack()
    empid.pack()

    def submit():
        try:
            id_list = [int(i.strip()) for i in gids.get().split(",")]
            processes.newsale(id_list, contact.get(), int(empid.get()))  # Pass data to backend
            messagebox.showinfo("Success", "Sale recorded successfully!")
            home()
      except Exception as e:
          messagebox.showerror("Error", str(e))

  tk.Button(root, text="Submit", command=submit, bg="lightgreen", font=("Arial", 12)).pack(pady=20)
  go_home_button()
# New Purchase Page
def new_purchase_page():
    clear_frame()
    tk.Label(root, text="New Purchase", font=("Arial", 20), bg="white").pack(pady=20)

    sid = tk.Entry(root, width=30)
    gid = tk.Entry(root, width=30)
    price = tk.Entry(root, width=30)
    qty = tk.Entry(root, width=30)

    for label, entry in [("Supplier ID", sid), ("Garment ID", gid),\
                         ("Total Price", price), ("Quantity", qty)]:
        tk.Label(root, text=label, font=("Arial", 12), bg="white").pack()
        entry.pack()

    def submit():
        try:
            processes.newpurchase(int(sid.get()), int(gid.get()), \
                                  int(price.get()), int(qty.get()))  # Pass data to backend
            messagebox.showinfo("Success", "Purchase recorded successfully!")
            home()
        except Exception as e:
            messagebox.showerror("Error", str(e))

    tk.Button(root, text="Submit", command=submit, bg="lightgreen", font=("Arial", 12)).pack(pady=20)
    go_home_button()
```

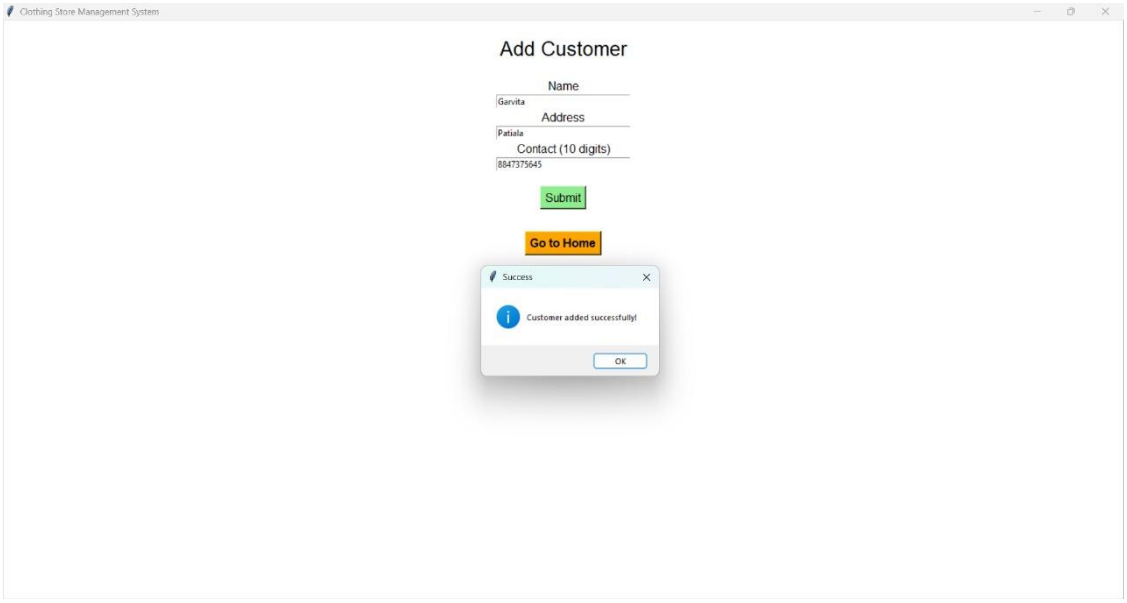
```
# View Net Sales
def view_net_sales():
    clear_frame()
    amt = processes.nets()
    tk.Label(root, text=f"Total Net Sales: ₹{amt}", font=("Arial", 20), bg="white").pack(pady=40)
    go_home_button()

# View Net Purchases
def view_net_purchases():
    clear_frame()
    amt = processes.netp()
    tk.Label(root, text=f"Total Net Purchases: ₹{amt}", font=("Arial", 20), bg="white").pack(pady=40)
    go_home_button()

# View All Sales
def view_all_sales():
    clear_frame()
    tk.Label(root, text="All Sales", font=("Arial", 20), bg="white").pack(pady=20)

    sales = processes.allsales()

    table_frame = tk.Frame(root)
    table_frame.pack()
    columns = ("Sale ID", "Customer ID", "Employee ID", "Amount", "Employee")

    tree = ttk.Treeview(table_frame, columns=columns, show="headings", height=15)
    for col in columns:
        tree.heading(col, text=col)
        tree.column(col, width=120, anchor="center")
    for sale in sales:
        tree.insert("", "end", values=sale)

    tree.pack()

    go_home_button()
# View All Purchases
def view_all_purchases():
    clear_frame()
    tk.Label(root, text="All Purchases", font=("Arial", 20), bg="white").pack(pady=20)

    purchases = processes.allpurchase()

    table_frame = tk.Frame(root)
    table_frame.pack()

    columns = ("Purchase ID", "Supplier ID", "Garment ID", "Price", "Quantity", "Supplier")

    tree = ttk.Treeview(table_frame, columns=columns, show="headings", height=15)

    for col in columns:
        tree.heading(col, text=col)
        tree.column(col, width=120, anchor="center")

    for purchase in purchases:
        tree.insert("", "end", values=purchase)

    tree.pack()

    go_home_button()
```

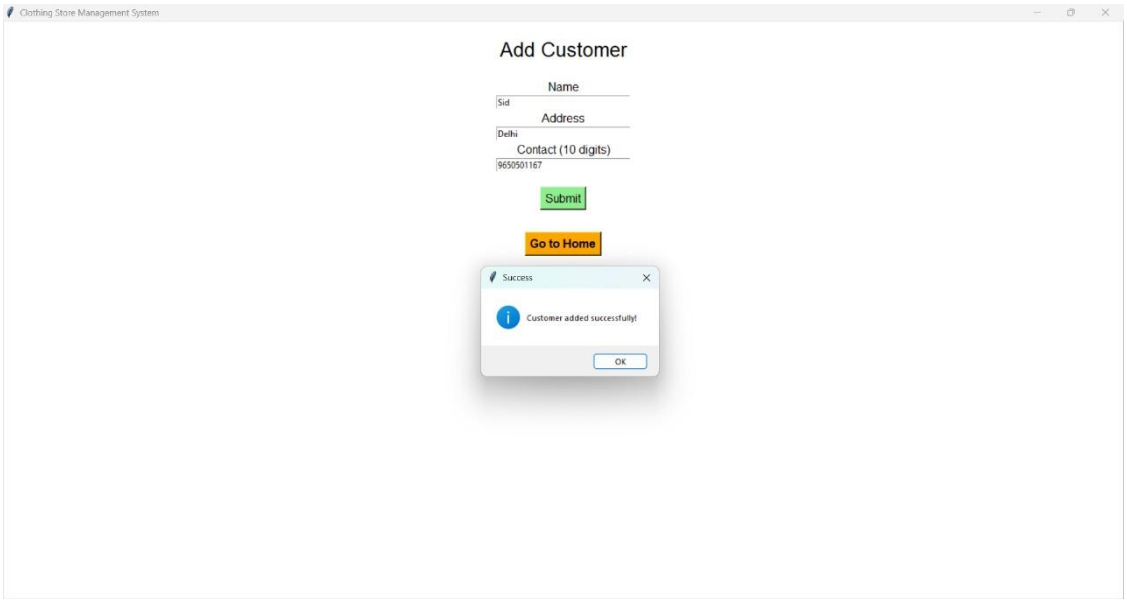
```
# Remove Employee
def remove_employee_page():
    clear_frame()
    tk.Label(root, text="Remove Employee", font=("Arial", 20), bg="white").pack(pady=20)

    empid = tk.Entry(root, width=30)
    tk.Label(root, text="Employee ID to Remove", font=("Arial", 12), bg="white").pack()
    empid.pack()

    def submit():
        try:
            processes.rememp(int(empid.get()))  # Pass data to backend
            messagebox.showinfo("Success", "Employee removed successfully!")
            home()
        except Exception as e:
            messagebox.showerror("Error", str(e))

    tk.Button(root, text="Submit", command=submit, bg="red", font=("Arial", 12)).pack(pady=20)
    go_home_button()

# Start with Home directly
home()
root.mainloop()
```

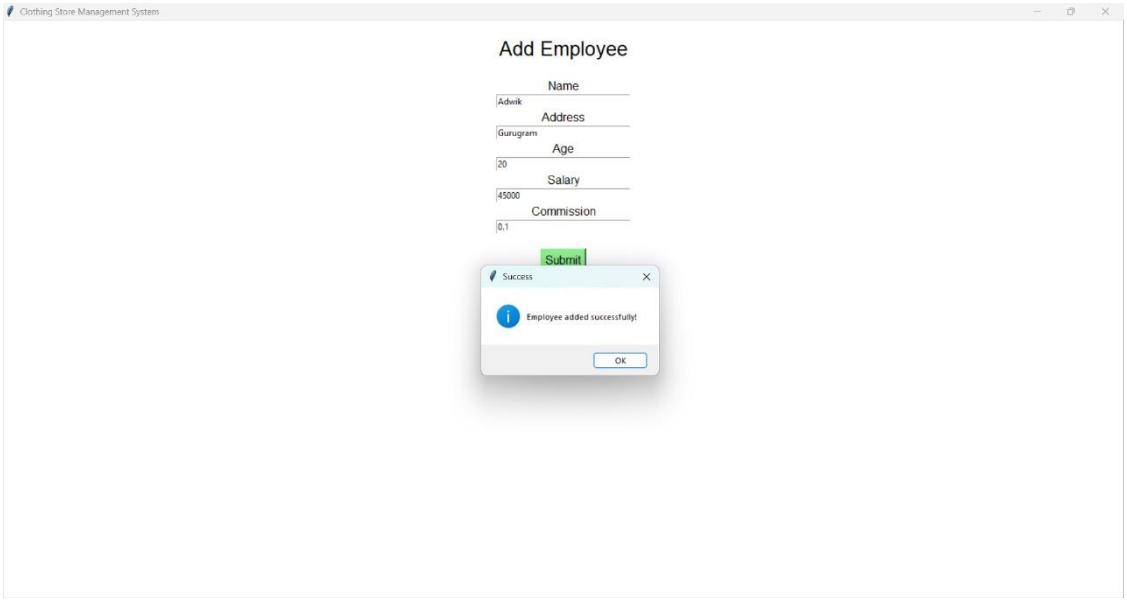
Chapter 7 SQL/PL/SQL Outputs and Discussion

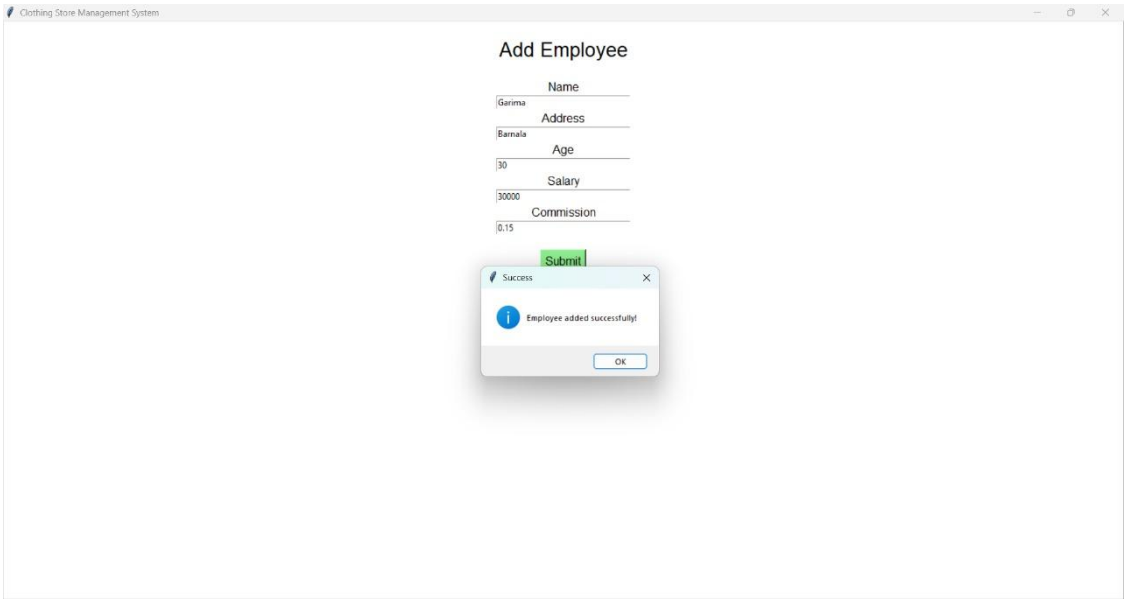
(Insert output results, observations, and discussion.)

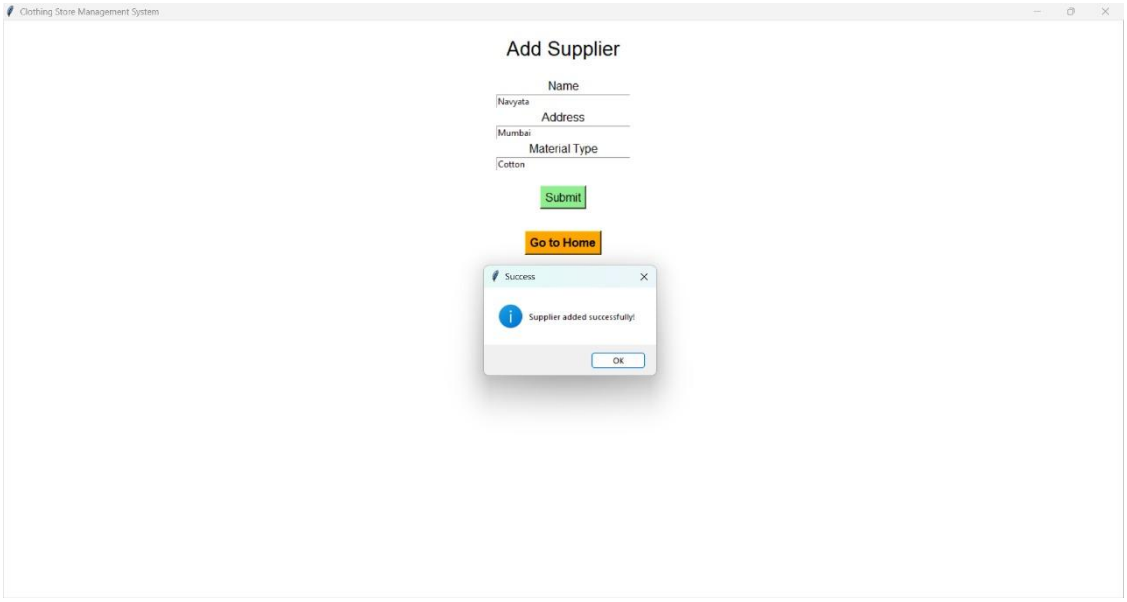


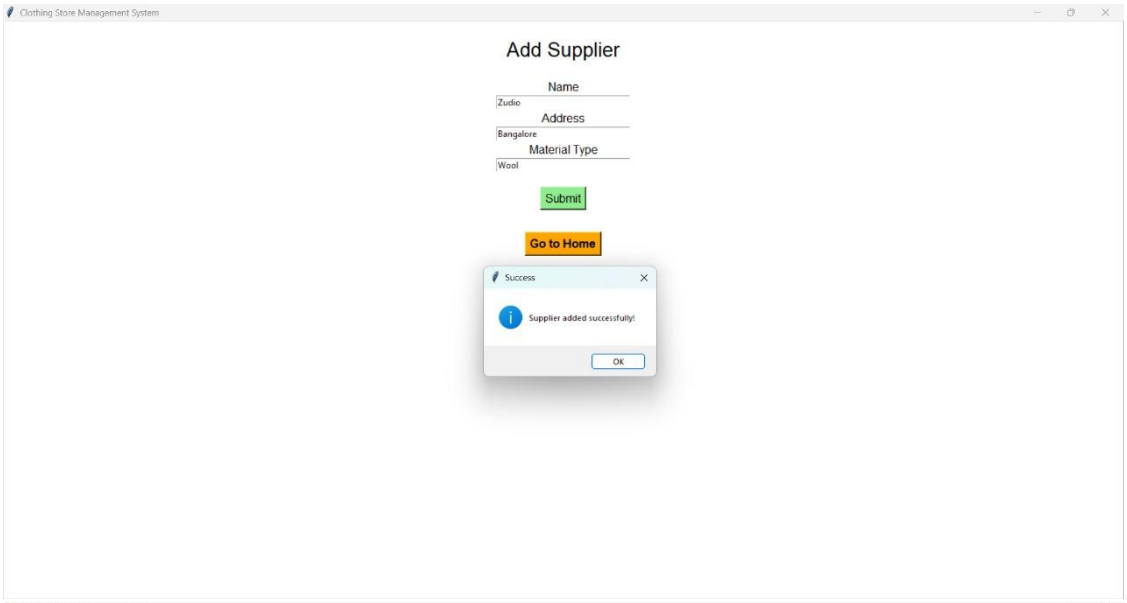


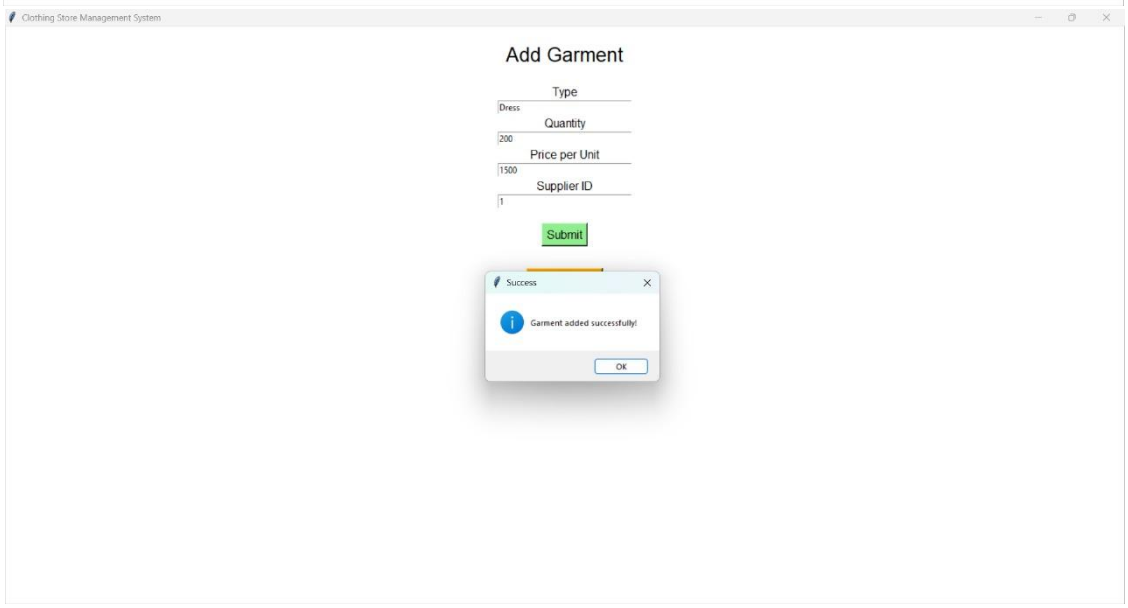

Clothing Store Management System
Add Customer
Name
Sid
Address
Delhi
Contact (10 digits)
9650501167
Submit
Go to Home
Success
Customer added successfully!
OK

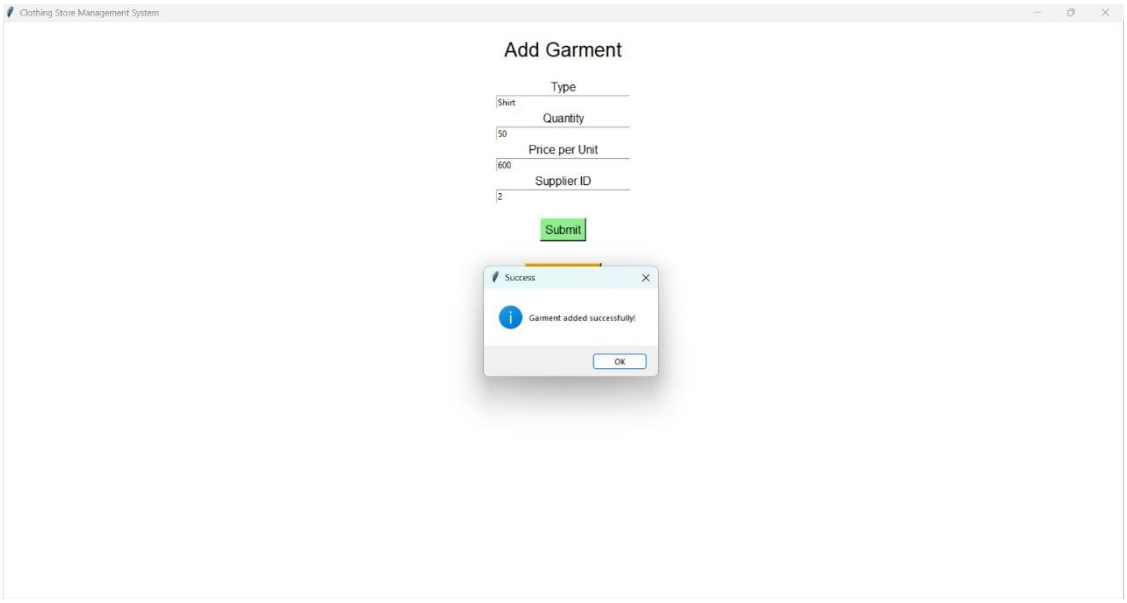

Clothing Store Management System
Add Employee
Name
Adwik
Address
Gurugram
Age
20
Salary
45000
Commission
0.1
Submit
Success
Employee added successfully!
OK

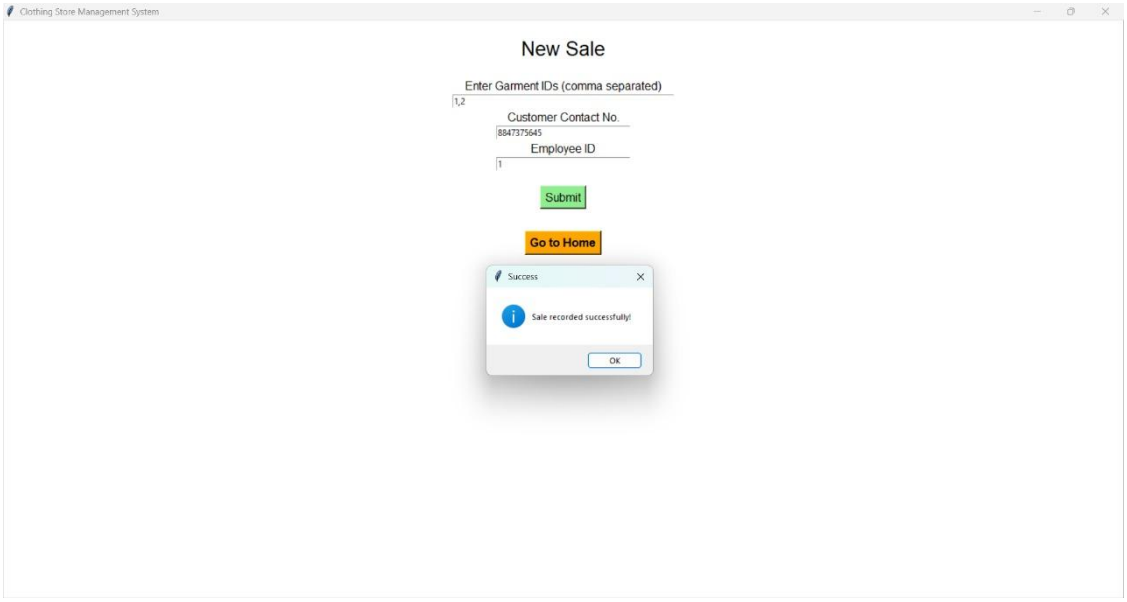

Clothing Store Management System
Add Employee
Name
Garima
Address
Barnala
Age
30
Salary
30000
Commission
0.15
Submit
Success
Employee added successfully!
OK

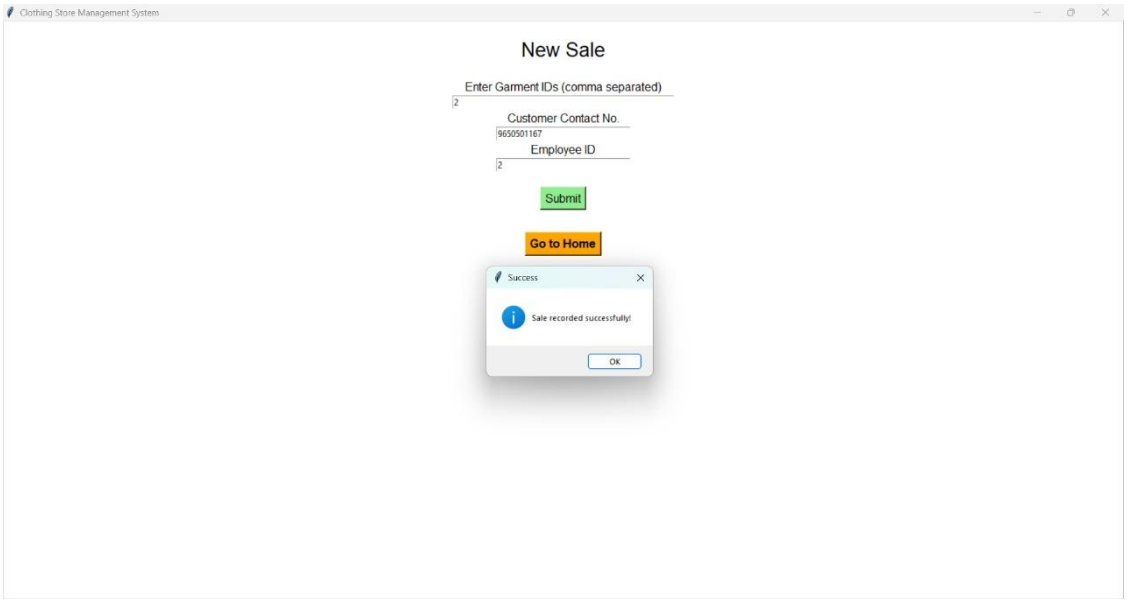

Clothing Store Management System
Add Supplier
Name
Navyata
Address
Mumbai
Material Type
Cotton
Submit
Go to Home
Success
Supplier added successfully!
OK

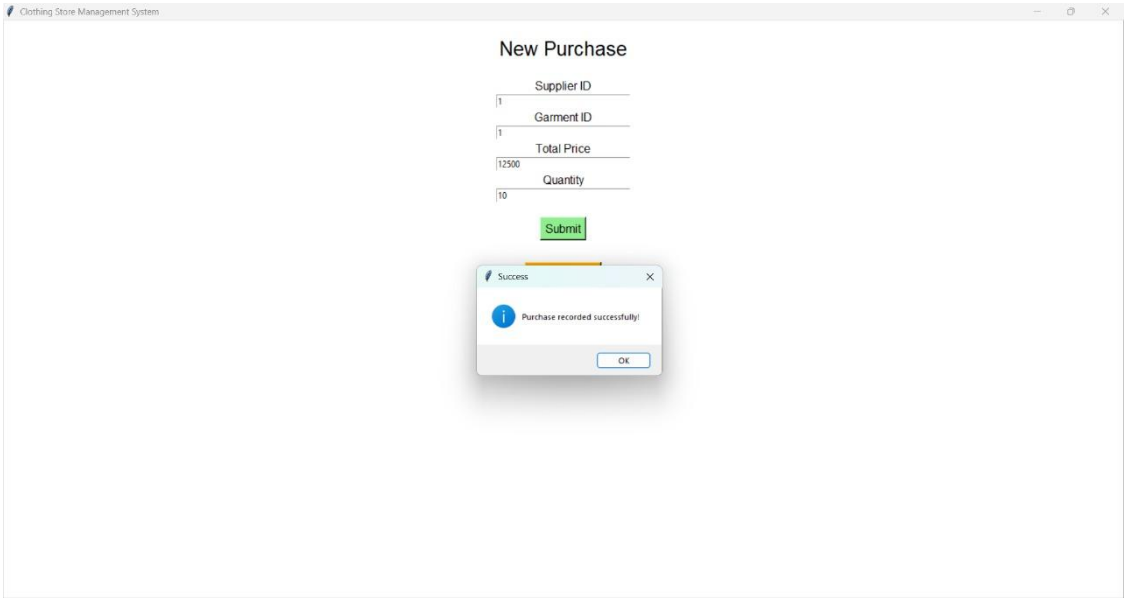

Clothing Store Management System
Add Supplier
Name
Zudio
Address
Bangalore
Material Type
Wool
Submit
Go to Home
Success
Supplier added successfully!
OK

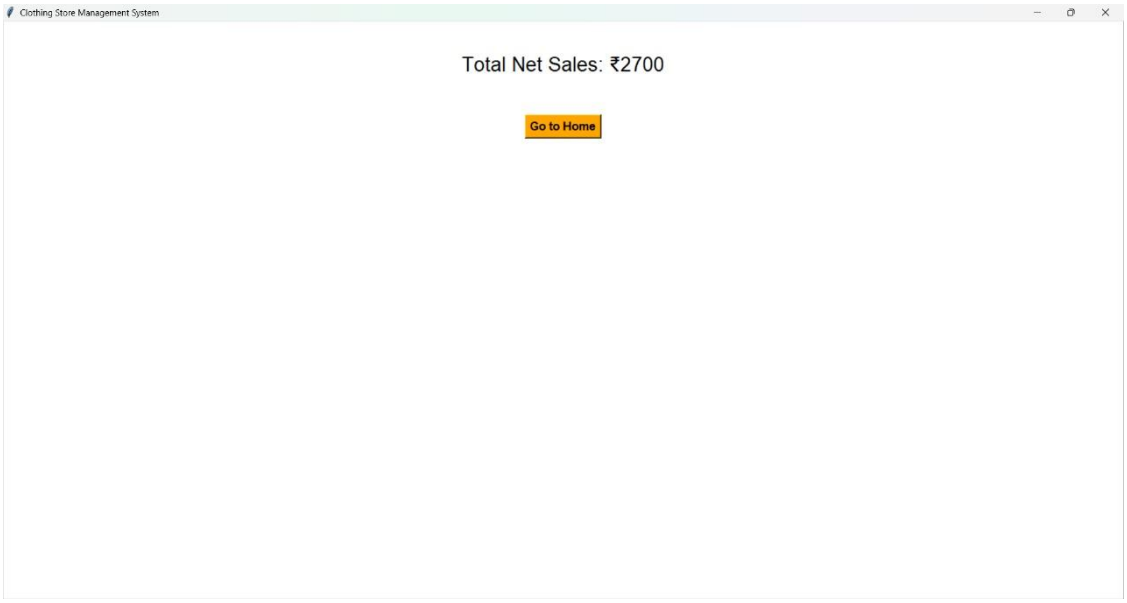

Clothing Store Management System
Add Garment
Type
Dress
Quantity
200
Price per Unit
1500
Supplier ID
1
Submit
Success
Garment added successfully!
OK

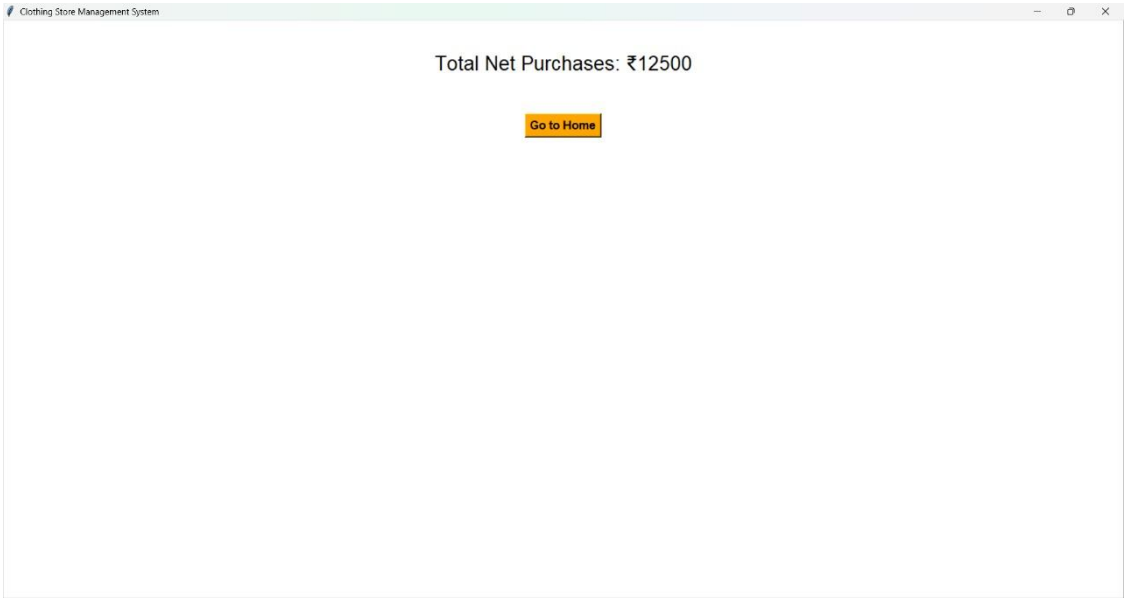

Clothing Store Management System
Add Garment
Type
Shirt
Quantity
50
Price per Unit
600
Supplier ID
2
Submit
Success
Garment added successfully!
OK

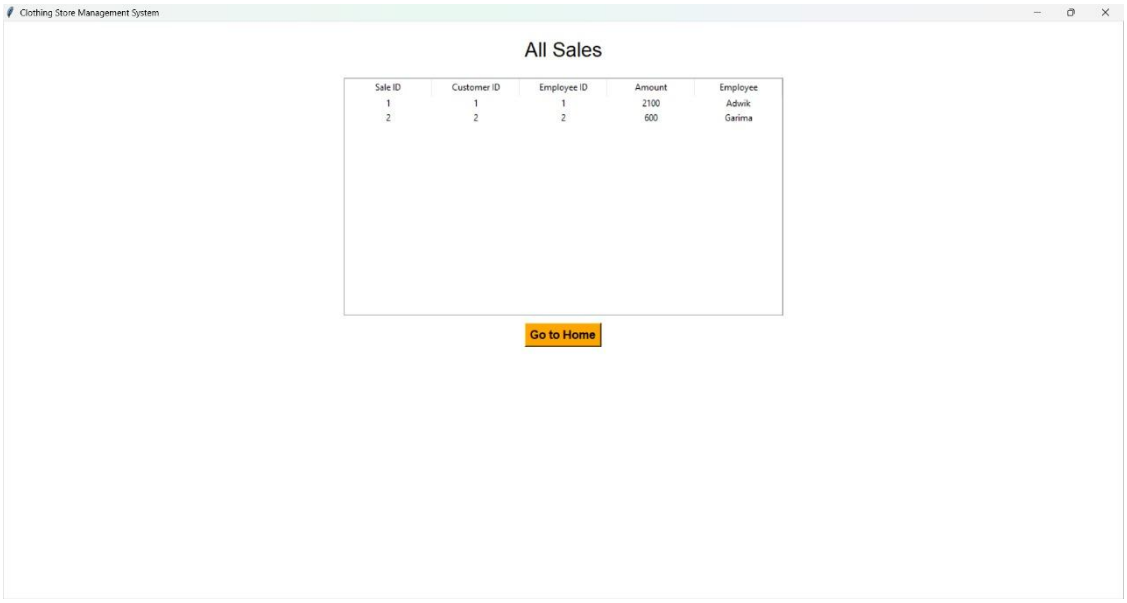

Clothing Store Management System
New Sale
Enter Garment IDs (comma separated)
1,2
Customer Contact No.
8847375645
Employee ID
1
Submit
Go to Home
Success
Sale recorded successfully!
OK

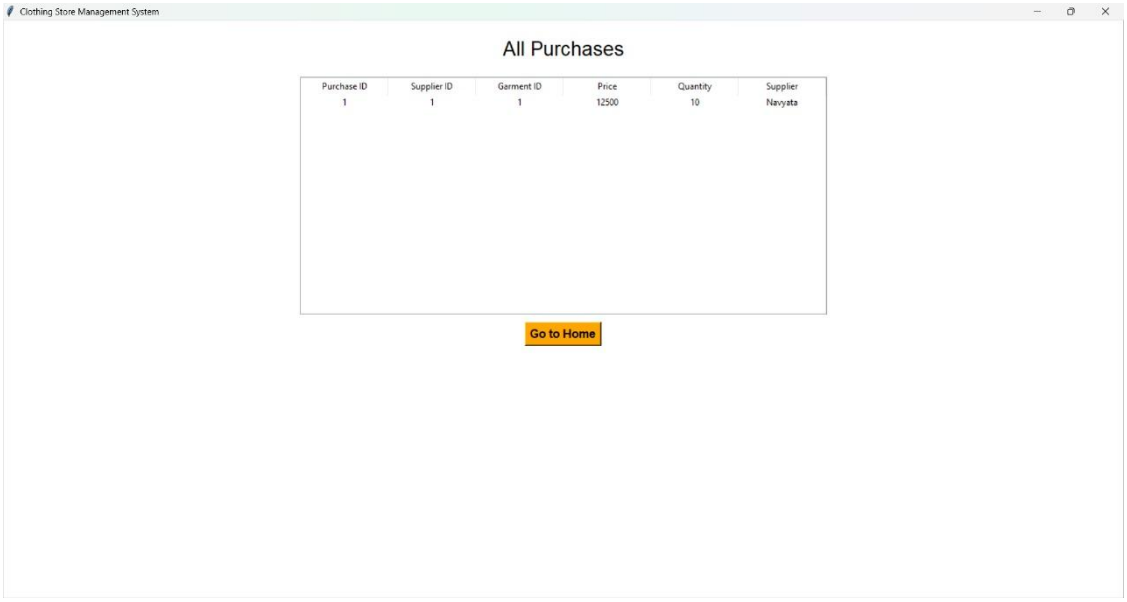

Clothing Store Management System
New Sale
Enter Garment IDs (comma separated)
2
Customer Contact No.
9650501167
Employee ID
2
Submit
Go to Home
Success
Sale recorded successfully!
OK

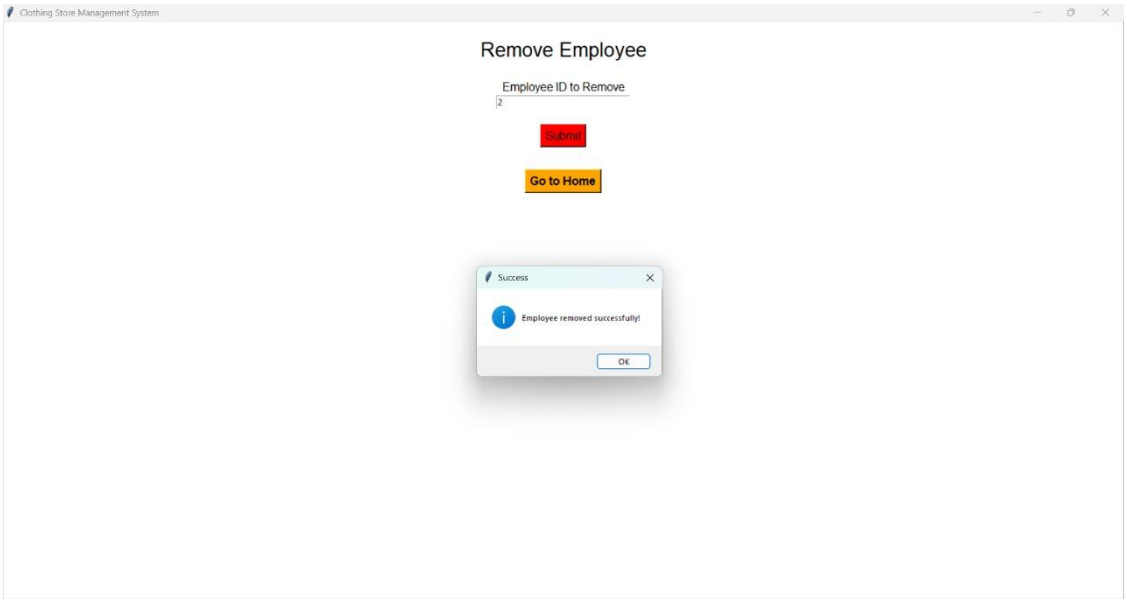

Clothing Store Management System
New Purchase
Supplier ID
1
Garment ID
1
Total Price
12500
Quantity
10
Submit
Success
Purchase recorded successfully!
OK


Clothing Store Management System
Total Net Sales: ₹2700
Go to Home


Clothing Store Management System
Total Net Purchases: ₹12500
Go to Home


Clothing Store Management System
All Sales
Sale ID
Customer ID
Employee ID
Amount
Employee
1
1
1
2100
Adwik
2
2
2
600
Garima
Go to Home


Clothing Store Management System
All Purchases
Purchase ID
Supplier ID
Garment ID
Price
Quantity
Supplier
1
1
1
12500
10
Navyata
Go to Home


Clothing Store Management System
Remove Employee
Employee ID to Remove
2
Submit
Go to Home
Success
Employee removed successfully!
OK

References

- MySQL Documentation: https://dev.mysql.com/doc/
- Python MySQL Connector Documentation: https://pypi.org/project/ mysql-connector-python/
- Database System Concepts by Abraham Silberschatz, Henry F. Korth, and S. Sudarshan
- Fundamentals of Database Systems by Ramez Elmasri and Shamkant B. Navathe
- W3Schools - SQL and MySQL Tutorials: https://www.w3schools. com/sql/
- GeeksforGeeks - Python MySQL: https://www.geeksforgeeks.org/ python-database-connection-mysql/
- Class notes and instructor lectures
- Personal understanding and practical implementation