import sqlite3

# Connect to SQLite DB

conn = sqlite3.connect("jewelry\_crm.db")

cursor = conn.cursor()

# Create tables

cursor.execute('''

CREATE TABLE IF NOT EXISTS customers (

id INTEGER PRIMARY KEY AUTOINCREMENT,

name TEXT NOT NULL,

phone TEXT,

email TEXT

)

''')

cursor.execute('''

CREATE TABLE IF NOT EXISTS projects (

id INTEGER PRIMARY KEY AUTOINCREMENT,

customer\_id INTEGER,

item\_name TEXT,

material TEXT,

status TEXT,

deadline TEXT,

FOREIGN KEY (customer\_id) REFERENCES customers(id)

)

''')

# Add a new customer

def add\_customer():

name = input("Enter customer name: ")

phone = input("Enter phone number: ")

email = input("Enter email: ")

cursor.execute("INSERT INTO customers (name, phone, email) VALUES (?, ?, ?)", (name, phone, email))

conn.commit()

print("✅ Customer added.\n")

# View customers

def view\_customers():

cursor.execute("SELECT \* FROM customers")

for row in cursor.fetchall():

print(row)

# Add new jewelry project

def add\_project():

view\_customers()

customer\_id = input("Enter Customer ID for this project: ")

item\_name = input("Enter item name (e.g., ring, necklace): ")

material = input("Enter material (e.g., gold, silver, diamond): ")

status = input("Enter status (e.g., in progress, completed): ")

deadline = input("Enter deadline (YYYY-MM-DD): ")

cursor.execute("INSERT INTO projects (customer\_id, item\_name, material, status, deadline) VALUES (?, ?, ?, ?, ?)",

(customer\_id, item\_name, material, status, deadline))

conn.commit()

print("✅ Project added.\n")

# View all projects

def view\_projects():

cursor.execute('''

SELECT p.id, c.name, p.item\_name, p.material, p.status, p.deadline

FROM projects p

JOIN customers c ON p.customer\_id = c.id

''')

for row in cursor.fetchall():

print(row)

# Main menu

def menu():

while True:

print("\n--- Jewelry CRM Menu ---")

print("1. Add Customer")

print("2. View Customers")

print("3. Add Jewelry Project")

print("4. View Projects")

print("5. Exit")

choice = input("Select an option: ")

if choice == "1":

add\_customer()

elif choice == "2":

view\_customers()

elif choice == "3":

add\_project()

elif choice == "4":

view\_projects()

elif choice == "5":

break

else:

print("Invalid choice. Try again.")

menu()

conn.close()

OUTPUT:

--- Jewelry CRM Menu ---

1. Add Customer

2. View Customers

3. Add Jewelry Project

4. View Projects

5. Exit

Select an option: 1

Enter customer name: neha sri

Enter phone number: 9862374125

Enter email: neha65@example.com

✅ Customer added.

--- Jewelry CRM Menu ---

1. Add Customer

2. View Customers

3. Add Jewelry Project

4. View Projects

5. Exit

Select an option:2

(1, 'Neha sri ', '9862374125', 'neha65@example.com')

--- Jewelry CRM Menu ---

1. Add Customer

2. View Customers

3. Add Jewelry Project

4. View Projects

5. Exit

Select an option:3

(1, 'Neha sri', '9862374125', 'neha65@example.com')

Enter Customer ID for this project: 1

Enter item name (e.g., ring, necklace): Ring

Enter material (e.g., gold, silver, diamond): Gold

Enter status (e.g., in progress, completed): In Progress

Enter deadline (YYYY-MM-DD): 2025-09-30

✅ Project added.

--- Jewelry CRM Menu ---

1. Add Customer

2. View Customers

3. Add Jewelry Project

4. View Projects

5. Exit

Select an option:4

(1, 'Neha sri', 'Ring', 'Gold', 'In Progress', '2025-09-30')

--- Jewelry CRM Menu ---

1. Add Customer

2. View Customers

3. Add Jewelry Project

4. View Projects

5. Exit

Select an option:5

program exits.