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import mysql.connector


host = 'localhost'
user = 'root'
password = 'ait123'
database = 'sagar_ass8'

def connect_db():
    try:
        connection = mysql.connector.connect(
            host=host,
            user=user,
            password=password,
            database=database
        )
        if connection.is_connected():
            print("Connected to MySQL database")
        return connection
    except mysql.connector.Error as err:
        print(f"Error: {err}")
        return None


def add_user(connection):
    name = input("Enter name: ")
    email = input("Enter email: ")

    cursor = connection.cursor()
    query = "INSERT INTO users (name, email) VALUES (%s, %s)"
    cursor.execute(query, (name, email))
    connection.commit()

    print("User added successfully!")

def edit_user(connection):
    user_id = input("Enter user ID to edit: ")
    name = input("Enter new name: ")
    email = input("Enter new email: ")

    cursor = connection.cursor()
    query = "UPDATE users SET name = %s, email = %s WHERE id = %s"
    cursor.execute(query, (name, email, user_id))
    connection.commit()

    print(f"User with ID {user_id} updated successfully!")


def delete_user(connection):
    user_id = input("Enter user ID to delete: ")

    cursor = connection.cursor()
    query = "DELETE FROM users WHERE id = %s"
    cursor.execute(query, (user_id,))
    connection.commit()

    print(f"User with ID {user_id} deleted successfully!")
```

```
def view_users(connection):
    cursor = connection.cursor()
    query = "SELECT * FROM users"
    cursor.execute(query)

    users = cursor.fetchall()
    print("Users in the database:")
    for user in users:
        print(f"ID: {user[0]}, Name: {user[1]}, Email: {user[2]}")


def main():
    connection = connect_db()
    if not connection:
        return

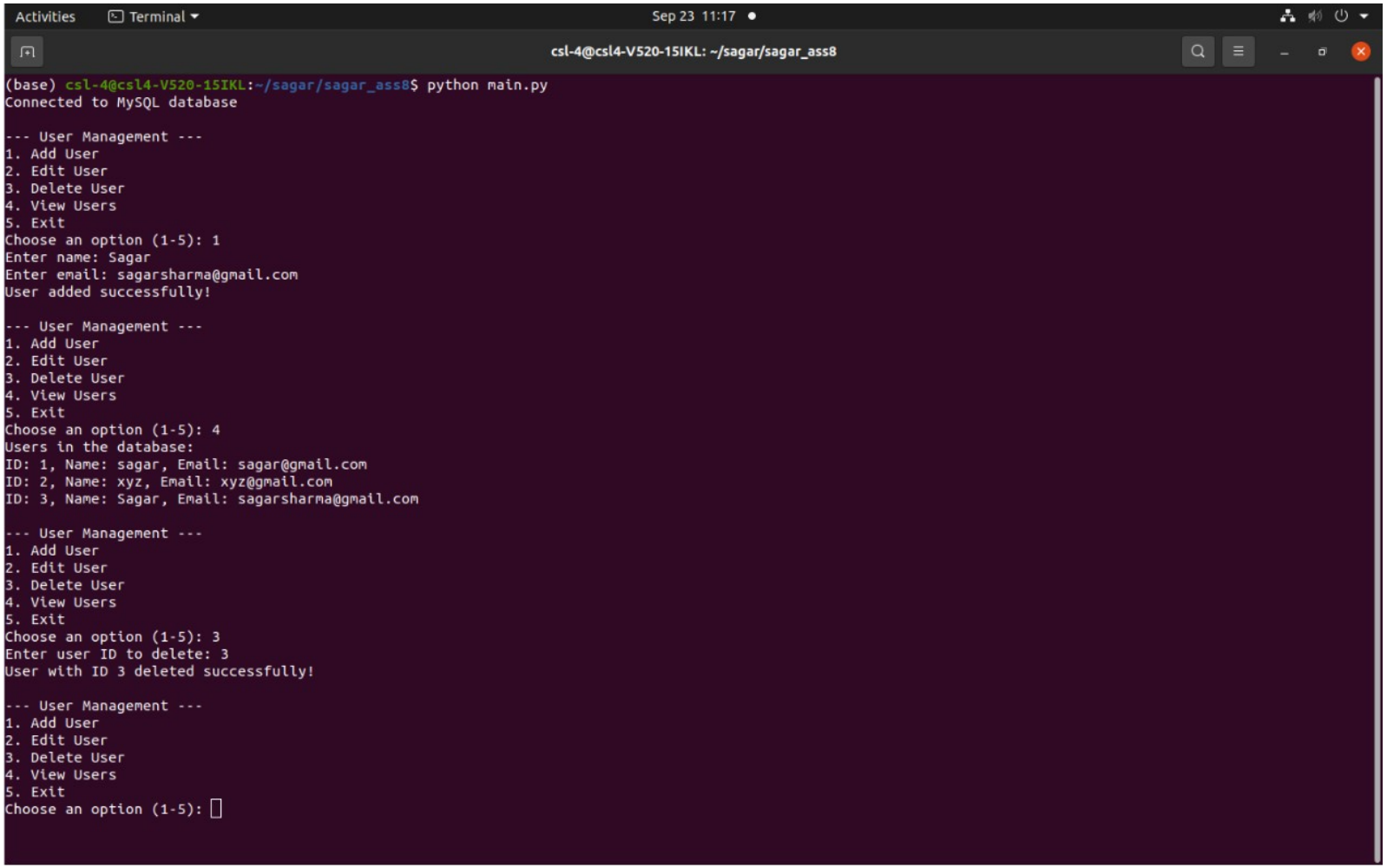
    while True:
        print("\n--- User Management ---")
        print("1. Add User")
        print("2. Edit User")
        print("3. Delete User")
        print("4. View Users")
        print("5. Exit")

        choice = input("Choose an option (1-5): ")

        if choice == '1':
            add_user(connection)
        elif choice == '2':
            edit_user(connection)
        elif choice == '3':
            delete_user(connection)
        elif choice == '4':
            view_users(connection)
        elif choice == '5':
            print("Exiting program.")
            break
        else:
            print("Invalid option. Please try again.")

    connection.close()

if __name__ == "__main__":
    main()
```


Activities
Terminal
Sep 23 11:17
csl-4@csl4-V520-15IKL: ~/sagar/sagar_ass8
(base) csl-4@csl4-V520-15IKL:~/sagar/sagar_ass8$ python main.py
Connected to MySQL database
--- User Management ---
1. Add User
2. Edit User
3. Delete User
4. View Users
5. Exit
Choose an option (1-5): 1
Enter name: Sagar
Enter email: sagarsharma@gmail.com
User added successfully!
--- User Management ---
1. Add User
2. Edit User
3. Delete User
4. View Users
5. Exit
Choose an option (1-5): 4
Users in the database:
ID: 1, Name: sagar, Email: sagar@gmail.com
ID: 2, Name: xyz, Email: xyz@gmail.com
ID: 3, Name: Sagar, Email: sagarsharma@gmail.com
--- User Management ---
1. Add User
2. Edit User
3. Delete User
4. View Users
5. Exit
Choose an option (1-5): 3
Enter user ID to delete: 3
User with ID 3 deleted successfully!
--- User Management ---
1. Add User
2. Edit User
3. Delete User
4. View Users
5. Exit
Choose an option (1-5):