

```

import sqlite3
#establish connection
conn = sqlite3.connect('demo.db')

# used to execute SQL commands
cursor = conn.cursor()

# create 'Users' table
cursor.execute('''CREATE TABLE IF NOT EXISTS Users (
    user_id INTEGER PRIMARY KEY,
    username TEXT UNIQUE,
    email TEXT UNIQUE,
    password TEXT,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
)''')

#create 'UserActivities' table
cursor.execute('''CREATE TABLE IF NOT EXISTS UserActivities (
    activity_id INTEGER PRIMARY KEY,
    user_id INTEGER,
    activity TEXT,
    activity_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (user_id) REFERENCES Users(user_id)
)''')

# create 'UserConnections' table
cursor.execute('''CREATE TABLE IF NOT EXISTS UserConnections(
    connection_id INTEGER PRIMARY KEY,
    user1_id INTEGER,
    user2_id INTEGER,
    conection_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (user1_id) REFERENCES Users(user_id)
    FOREIGN KEY (user2_id) REFERENCES Users(user_id)
)''')

<sqlite3.Cursor at 0x7b1d5b9f2b40>

# create indexes for data retrieval
cursor.execute("CREATE INDEX IF NOT EXISTS idx_user_id ON UserActivities(user_id)")
cursor.execute("CREATE INDEX IF NOT EXISTS idx_user1_user2 ON UserConnections(user1_id, user2_id)")

<sqlite3.Cursor at 0x7b1d5b9f2b40>

# commit (save) changes
conn.commit()

# add (insert)

# commit (save) changes
conn.commit()

# query and print data from the Users table
print("Users:")
cursor.execute("SELECT * FROM Users")
for row in cursor.fetchall():
    print(row)

    Users:

#query and print data from the UserActivities table
print("\nUser Activities:")
cursor.execute("SELECT * FROM UserActivities")
for row in cursor.fetchall():
    print(row)

    User Activities:

```

```
# query and print data from the UserConnections table
print("\nUser Connections:")
for row in cursor.fetchall():
    print(row)
```

User Connections:

```
# close the database connection
conn.close()
```