Project: Event Management System using PostgreSQL.

Objective: To develop the application that allows users to create and manage events, track attendees, and handle event registrations efficiently. The project will include the following tasks:

1. Database Creation

Create a database named "EventsManagement."

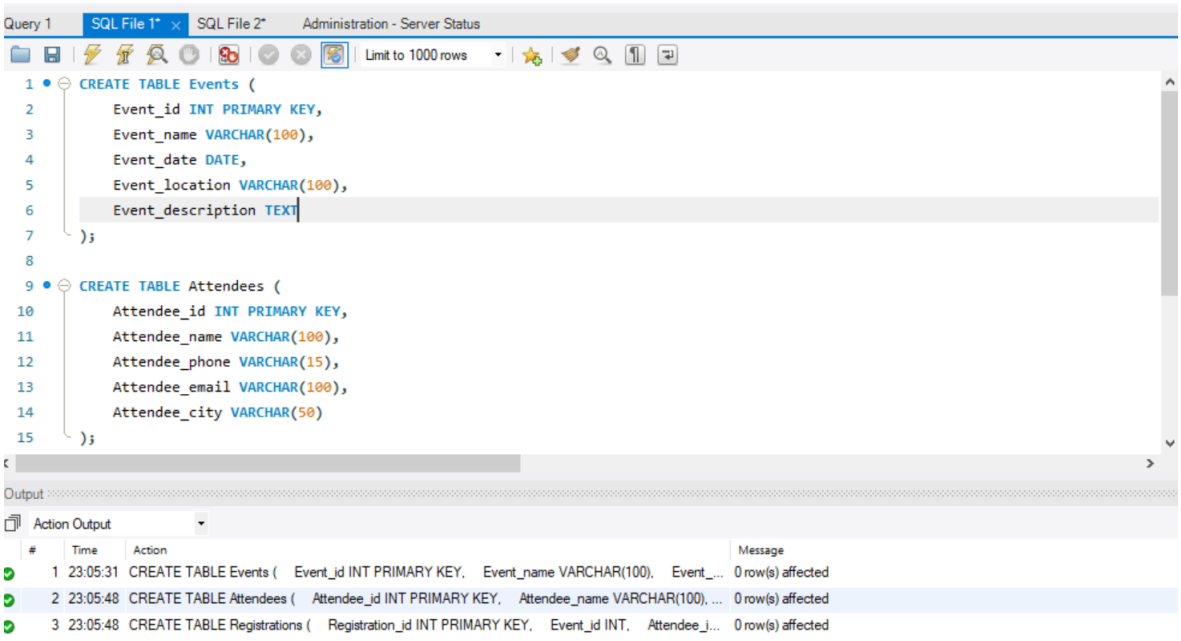
Create tables for Events, Attendees, and Registrations.

Events- Event_Id, Event_Name, Event_Date, Event_Location, Event_Description

Attendees- Attendee_Id, Attendee_Name, Attendee_Phone, Attendee_Email, Attendee_City

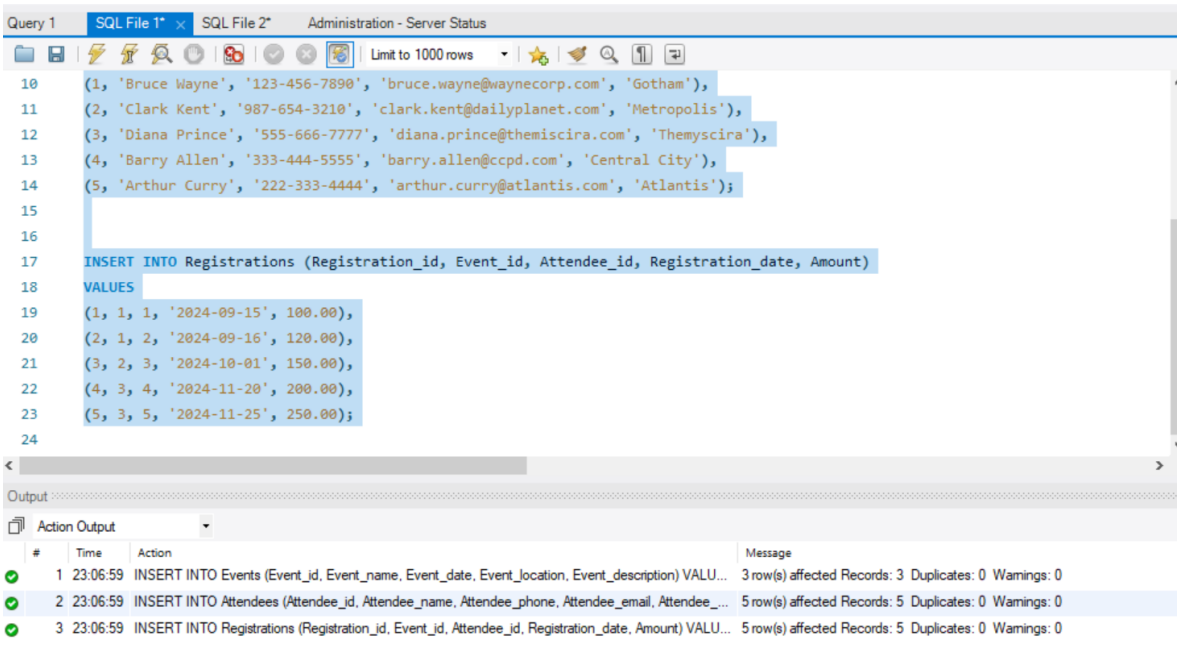
Registrations-Registration_id, Event_Id, Attendee_Id,Registration_Date,Registration_Amount.

The FOREIGN KEY constraint in the Registrations table references the Event_Id column in the Events table and the Attendee_Id column in the Attendees table.



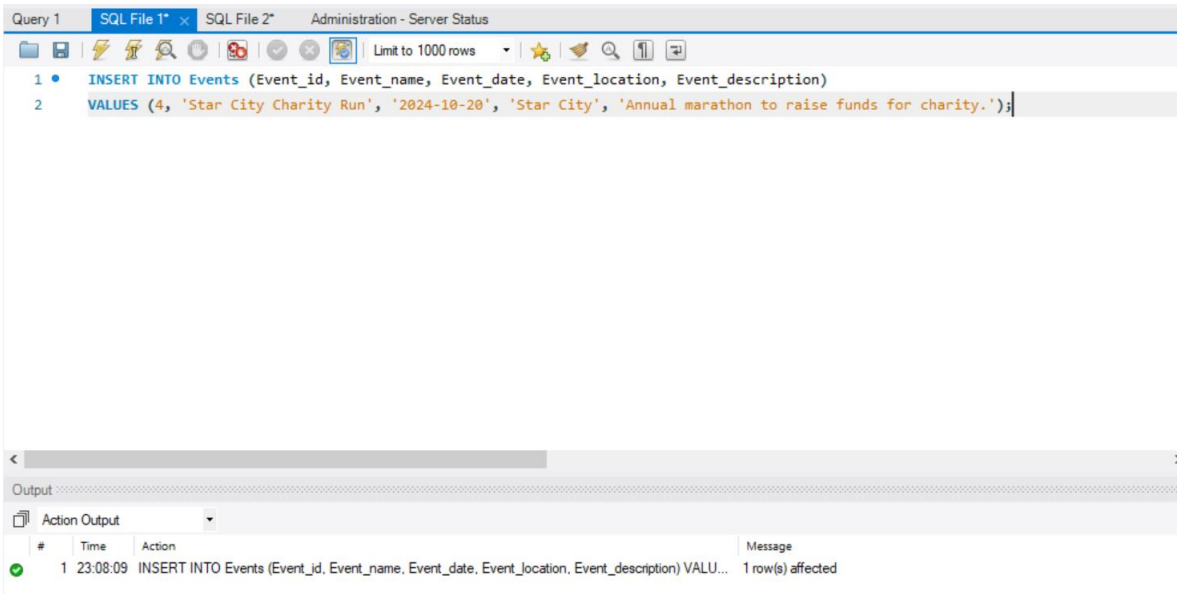
2. Data Creation

Insert some sample data for Events, Attendees, and Registrations tables with respective fields.

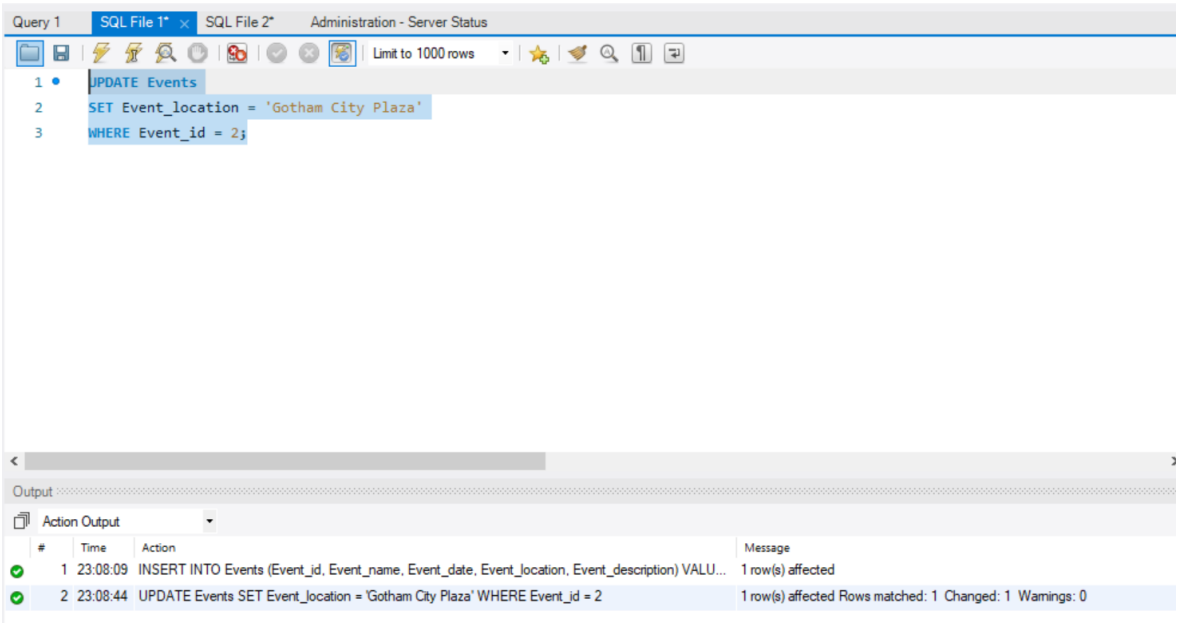


3. Manage Event Details

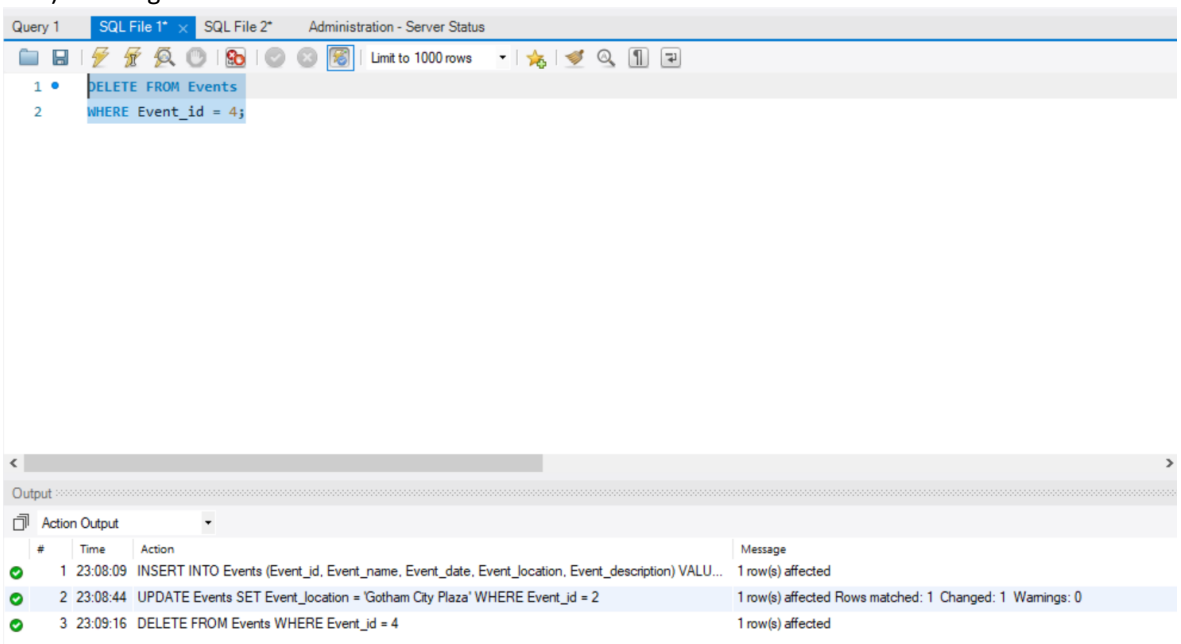
a) Inserting a new event.



b) Updating an event's information.

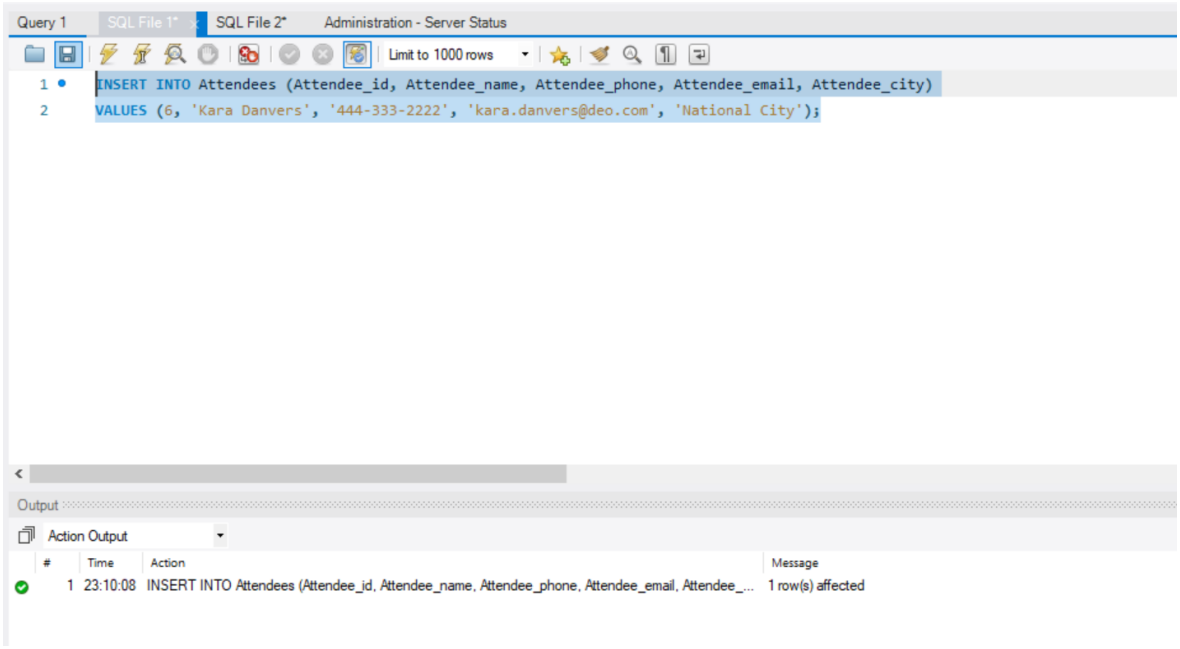


c) Deleting an event.

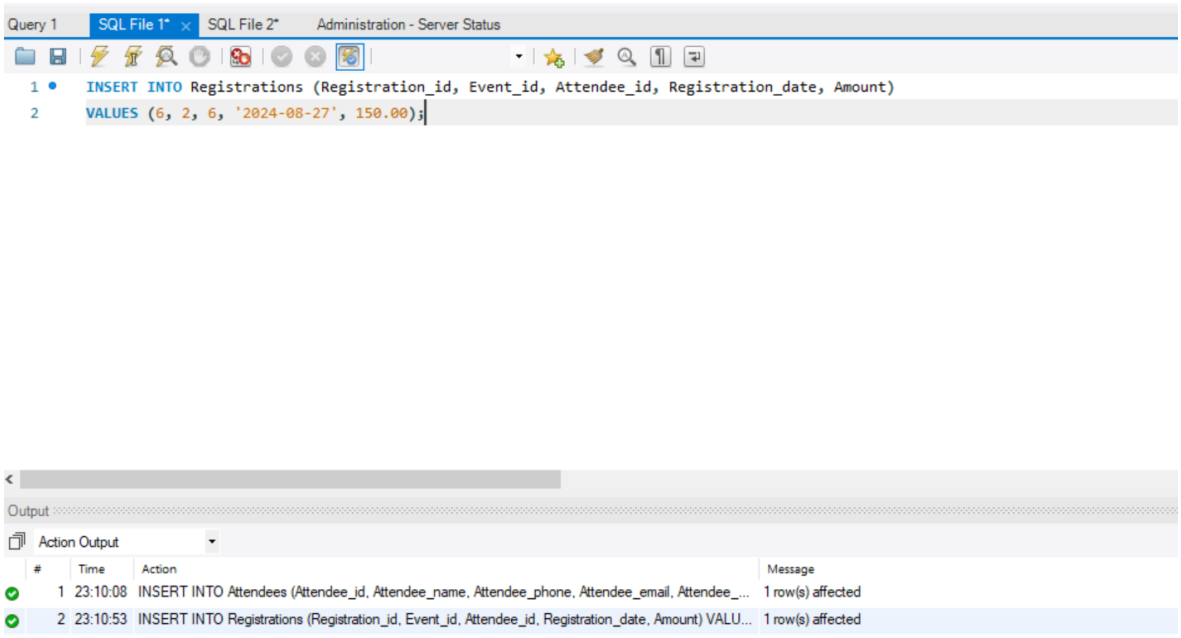


3) Manage Track Attendees & Handle Events

a) Inserting a new attendee.

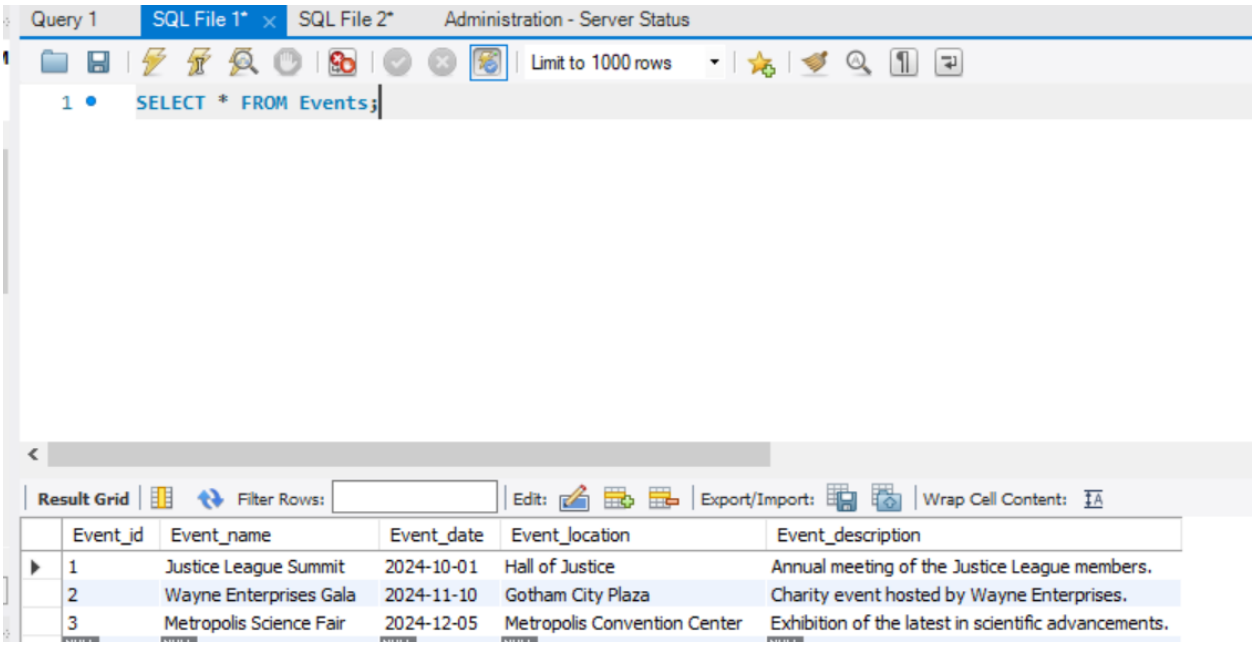


b)Registering an attendee for an event.



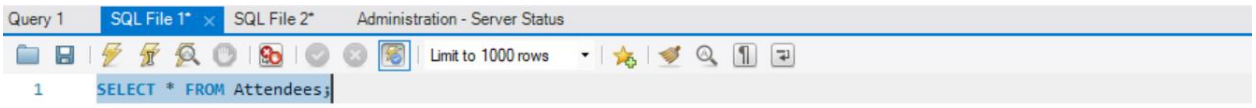
5.Develop queries to

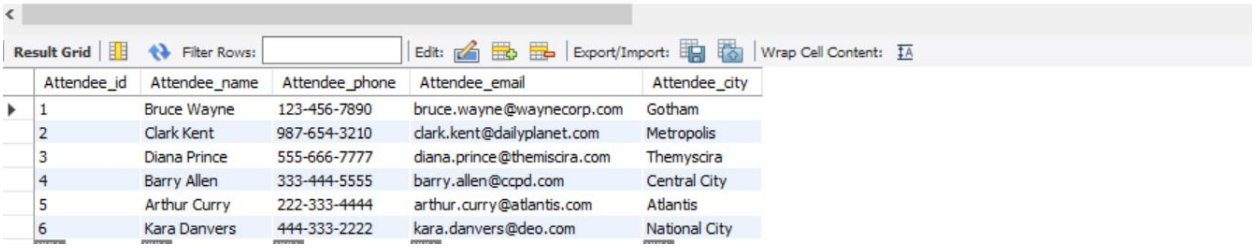
- retrieve event information,



Event_id	Event_name	Event_date	Event_location	Event_description
1	Justice League Summit	2024-10-01	Hall of Justice	Annual meeting of the Justice League members.
2	Wayne Enterprises Gala	2024-11-10	Gotham City Plaza	Charity event hosted by Wayne Enterprises.
3	Metropolis Science Fair	2024-12-05	Metropolis Convention Center	Exhibition of the latest in scientific advancements.

- generate attendee lists





Attendee_id	Attendee_name	Attendee_phone	Attendee_email	Attendee_city
1	Bruce Wayne	123-456-7890	bruce.wayne@waynecorp.com	Gotham
2	Clark Kent	987-654-3210	clark.kent@dailyplanet.com	Metropolis
3	Diana Prince	555-666-7777	diana.prince@themiscira.com	Themyscira
4	Barry Allen	333-444-5555	barry.allen@ccpd.com	Central City
5	Arthur Curry	222-333-4444	arthur.curry@atlantis.com	Atlantis
6	Kara Danvers	444-333-2222	kara.danvers@deo.com	National City

Attendee list for specific event

Query 1 | SQL File 1* | SQL File 2* | Administration - Server Status

Limit to 1000 rows

```sql
SELECT A.Attendee_name, A.Attendee_email, A.Attendee_phone
FROM Attendees A
JOIN Registrations R ON A.Attendee_id = R.Attendee_id
WHERE R.Event_id = '1';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Attendee_name	Attendee_email	Attendee_phone
Bruce Wayne	bruce.wayne@waynecorp.com	123-456-7890
Clark Kent	clark.kent@dailyplanet.com	987-654-3210

- calculate event attendance statistics.

Query 1 | SQL File 1* | SQL File 2* | Administration - Server Status

Limit to 1000 rows

```sql
SELECT
    E.Event_name,
    COUNT(R.Registration_id) AS Total_Attendees,
    SUM(R.Amount) AS Total_Amount,
    AVG(R.Amount) AS Average_Amount,
    MIN(R.Amount) AS Minimum_Amount,
    MAX(R.Amount) AS Maximum_Amount
FROM Events E
LEFT JOIN Registrations R ON E.Event_id = R.Event_id
GROUP BY E.Event_id, E.Event_name;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Event_name	Total_Attendees	Total_Amount	Average_Amount	Minimum_Amount	Maximum_Amount
Justice League Summit	2	220.00	110.000000	100.00	120.00
Wayne Enterprises Gala	2	300.00	150.000000	150.00	150.00
Metropolis Science Fair	2	450.00	225.000000	200.00	250.00