**Task 3**

**Project: Event Management System using PostgreSQL**

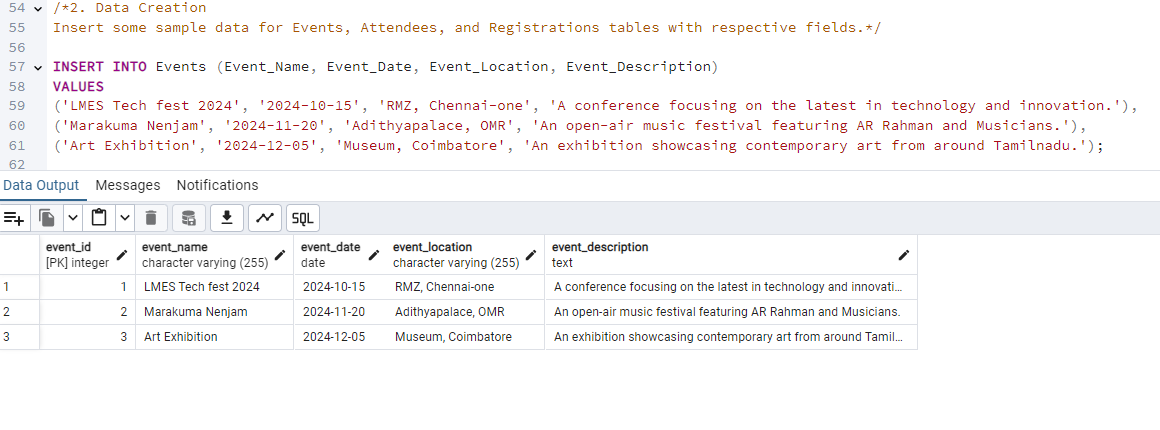
**Objective: To develop the application that allows users to create and manage events, track attendees, and handle event registrations efficiently. The project will include the following tasks:**

**1. Database Creation**

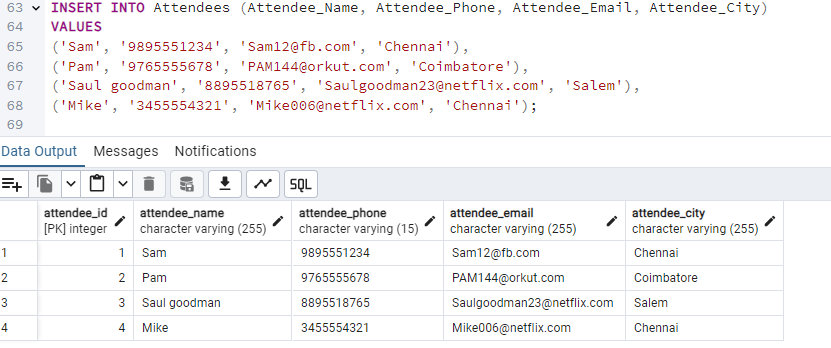
**Create a database named "EventsManagement."**

**Create tables for Events, Attendees, and Registrations.**

**Events-Event\_Id, Event\_Name, Event\_Date, Event\_Location, Event\_Description**

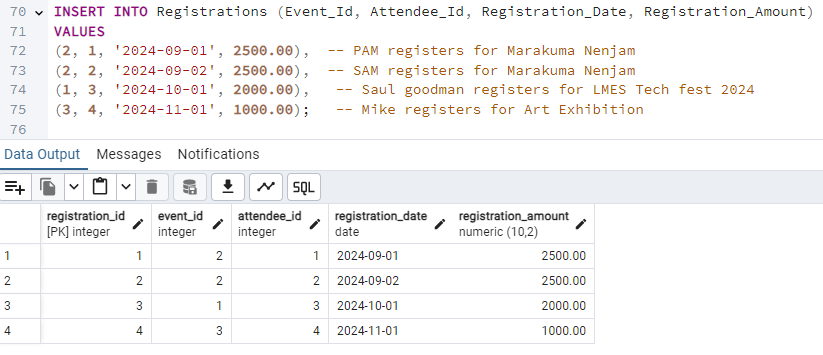


**Attendees-Attendee\_Id, Attendee\_Name, Attendee\_Phone, Attendee\_Email, Attendee\_City**



**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.**

INSERT INTO Events (Event\_Name, Event\_Date, Event\_Location, Event\_Description)

VALUES

('LMES Tech fest 2024', '2024-10-15', 'RMZ, Chennai-one', 'A conference focusing on the latest in technology and innovation.'),

('Marakuma Nenjam', '2024-11-20', 'Adithyapalace, OMR', 'An open-air music festival featuring AR Rahman and Musicians.'),

('Art Exhibition', '2024-12-05', 'Museum, Coimbatore', 'An exhibition showcasing contemporary art from around Tamilnadu.');

INSERT INTO Attendees (Attendee\_Name, Attendee\_Phone, Attendee\_Email, Attendee\_City)

VALUES

('Sam', '9895551234', 'Sam12@fb.com', 'Chennai'),

('Pam', '9765555678', 'PAM144@orkut.com', 'Coimbatore'),

('Saul goodman', '8895518765', 'Saulgoodman23@netflix.com', 'Salem'),

('Mike', '3455554321', 'Mike006@netflix.com', 'Chennai');

INSERT INTO Registrations (Event\_Id, Attendee\_Id, Registration\_Date, Registration\_Amount)

VALUES

(2, 1, '2024-09-01', 2500.00), -- PAM registers for Marakuma Nenjam

(2, 2, '2024-09-02', 2500.00), -- SAM registers for Marakuma Nenjam

(1, 3, '2024-10-01', 2000.00), -- Saul goodman registers for LMES Tech fest 2024

(3, 4, '2024-11-01', 1000.00); -- Mike registers for Art Exhibition

select \* from Events;

**/\*3. Manage Event Details**

**a) Inserting a new event.\*/**

INSERT INTO Events (Event\_Name, Event\_Date, Event\_Location, Event\_Description)

VALUES

('Annual amazon Bash 2024', '2024-12-15', 'Leela Palace, ECR, Chennai', 'Annual celebrations held for Amazon employees. The event will feature a dinner and entertainment.');

select \* from events;

**-- b) Updating an event's information.**

UPDATE Events

SET Event\_Location = 'WTC, OMR',

Event\_Description = 'A conference focusing on the latest in technology and innovation (Focusing largely on LLM).'

WHERE Event\_Id = 1;

SELECT \* FROM EVENTS

WHERE EVENT\_ID = 1;

**-- c) Deleting an event.**

SELECT \* FROM Registrations WHERE Event\_Id = 3; -- Checking for registered attentees in event id 3 (Mike registered for Art Exhibition)

DELETE FROM Registrations WHERE Event\_Id = 3; -- deleted entry value for registered attentees in event id 3

DELETE FROM Registrations WHERE Event\_Id = 3; -- deleted event id 3

select \* from registrations;

**/\*4) Manage Track Attendees & Handle Events**

**a) Inserting a new attendee.\*/**

INSERT INTO Attendees (Attendee\_Name, Attendee\_Phone, Attendee\_Email, Attendee\_City)

VALUES ('Chuck', '9876543210', 'Chuck@HHMadvocates.com', 'Bangalore');

select \* from Attendees;

**-- b) Registering an attendee for an event.**

INSERT INTO Registrations (Event\_Id, Attendee\_Id, Registration\_Date, Registration\_Amount)

VALUES (2, 5, '2024-09-15', 2500.00);

-- To display the added event.

SELECT

a.Attendee\_Name,

e.Event\_Id,

e.Event\_Name,

e.Event\_Date,

a.Attendee\_Id,

r.Registration\_Amount

FROM

Registrations r

JOIN

Events e ON r.Event\_Id = e.Event\_Id

JOIN

Attendees a ON r.Attendee\_Id = a.Attendee\_Id

WHERE

r.Event\_Id = 2 AND r.Attendee\_Id = 5;

**-- 5.Develop queries to retrieve event information, generate attendee lists, and calculate event attendance statistics.**

SELECT

e.Event\_Id,

e.Event\_Name,

COUNT(r.Attendee\_Id) AS Total\_Attendees

FROM

Events e

LEFT JOIN

Registrations r ON e.Event\_Id = r.Event\_Id

GROUP BY

e.Event\_Id, e.Event\_Name;