**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 DATABASE EventsManagement;

Create tables for Events, Attendees, and Registrations.

Events- Event\_ld, Event\_Name, Event\_Date, Event\_Location, Event\_Description

CREATE TABLE Events (

Event\_id SERIAL PRIMARY KEY,

Event\_Name VARCHAR(255),

Event\_Date DATE,

Event\_Location VARCHAR(255),

Event\_Description TEXT

);

Attendees- Attendee\_ld, Attendee\_Name, Attendee\_Phone, Attendee\_Email, Attendee\_ City

CREATE TABLE Attendees (

Attendee\_id SERIAL PRIMARY KEY,

Attendee\_Name VARCHAR(255),

Attendee\_Phone VARCHAR(15),

Attendee\_Email VARCHAR(255),

Attendee\_City VARCHAR(255)

);

Registrations-Registration\_id, Event\_ld, Attendee\_ld, Registration\_Date,Registration\_Amount.

The FOREIGN KEY constraint in the Registrations table references the Event\_ld column in the Events table and the Attendee\_ld column in the Attendees table.

CREATE TABLE Registrations (

Registration\_id SERIAL PRIMARY KEY,

Event\_id INT REFERENCES Events(Event\_id),

Attendee\_id INT REFERENCES Attendees(Attendee\_id),

Registration\_Date DATE,

Registration\_Amount DECIMAL(10, 2)

);

1. **Data Creation**

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

**--insert into Events table**

insert into events values (001,'Event1','2023-11-12','Bangalore','Tech conference'),

(002,'Event2','2023-11-12','Bangalore','Tech conference'),

(003,'Event3','2023-10-15','Mysore','workshop'),

(004,'Event4','2023-11-03','Madur','Tech conference'),

(005,'Event5','2023-12-30','Bangalore','workshop');

**--insert into Attendees table**

insert into Attendees values (001,'user2','8973772165','rahuman@amazon.com','Bombay'),

(002,'user1','9876543211','yuvan@amazon.com','Delhi'),

(003,'user3','9600652234','vasu@amazon.com','Ladakh'),

(004,'user4','9988776655','prakash@amazon.com','Madurai'),

(005,'user5','8899007766','antony@amazon.com','leh');

--insert into registrations table

insert into registrations values (001,001,001,'2023-10-29','5000'),

(002,002,002,'2023-10-30','15000'),

(003,003,003,'2023-11-05','7000'),

(004,004,004,'2023-11-15','9000'),

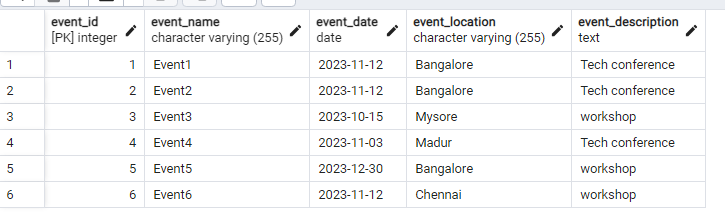
(005,005,005,'2023-12-06','14000');

1. **Manage Event Details**

a} Inserting a new event.

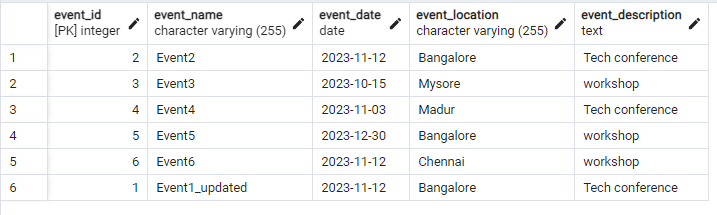
insert into events(Event\_id,Event\_name,Event\_date,Event\_location,Event\_description) values

('006','Event6','2023-11-12','Chennai','workshop');



b} Updating an event's information.

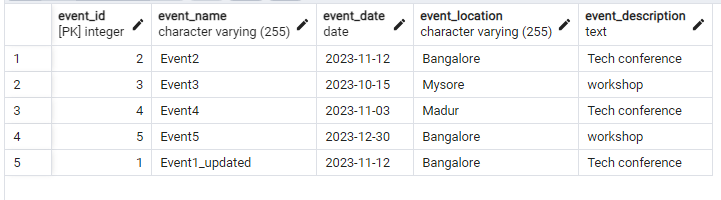
Update events set event\_name='Event1\_updated' where Event\_id='1';



c} Deleting an event.

DELETE FROM Events

WHERE Event\_id = 6;



1. **Manage Track Attendees & Handle Events**

a}lnserting a new attendee.

insert into attendees (Attendee\_id,Attendee\_name,Attendee\_phone,Attendee\_email,Attendee\_city) values

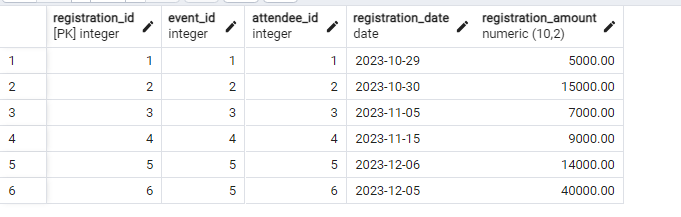
(006,'user6','687945321','kanimo@amazon.com','Mysore');



b}Registering an attendee for an event.

insert into registrations (Registration\_id,Event\_id,Attendee\_id,Registration\_date,Registration\_amount) values

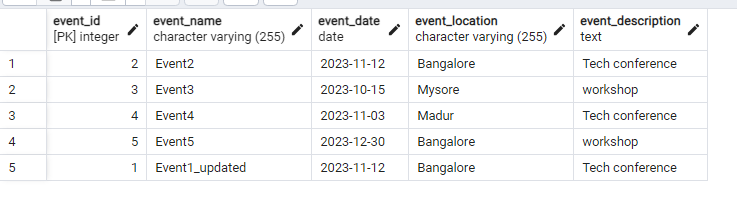
(006,005,006,'2023-12-05','40000');



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

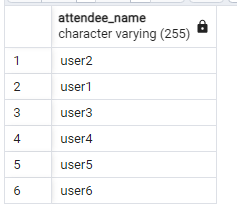
**--Retrive event info**

Select \* from events\_table;



**--Generate attendee lists**

Select attendee\_name from attendees;



**--Calculate event attendance statistics.**

SELECT Event\_Name, COUNT(Registration\_id) AS Attendee\_Count

FROM Events E

LEFT JOIN Registrations R ON E.Event\_id = R.Event\_id

GROUP BY Event\_Name;

