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.

Event

event_id [PK] integer	event_name text	event_date date	event_location text	event_description text
1	1	Hackathon 2024	2024-12-01	New York	A conference for tech enthusiasts.
2	2	Pradeep Concert	2024-11-30	Chennai	An exciting music festival.
3	3	AR Rahman Concert	2024-12-15	Dubai	A showcase of Oscar Winning Performance.

Attendees

attendee_id [PK] integer	attendee_name text	attendee_phone numeric (15)	attendee_email text	attendee_city text
1	1	Karthick	1234567890	karthick@example.com	Chennai
2	2	Athish	9876543210	athish@example.com	Dubai
3	3	Abdul	1122334455	abdul@example.com	NY
4	4	Sakthi	5566778899	sakthi@example.com	Chennai

Registrations

registration_id [PK] integer	event_id integer	attendee_id integer	registration_date date	registration_amount numeric (10,2)
1	1	1	1	2024-11-20	10000.00
2	2	1	2	2024-11-21	15000.00
3	3	2	3	2024-11-25	12000.00
4	4	3	4	2024-12-01	8000.00

3. Manage Event Details
a) Inserting a new event.

event_id [PK] integer	event_name text	event_date date	event_location text	event_description text
1	1	Hackathon 2024	2024-12-01	New York	A conference for tech enthusiasts.
2	2	Pradeep Concert	2024-11-30	Chennai	An exciting music festival.
3	3	AR Rahman Concert	2024-12-15	Dubai	A showcase of Oscar Winning Performance.
4	4	Debugging 2024	2024-12-10	Austin	A 24-hour coding challenge.

b) Updating an event's information.

event_id [PK] integer	event_name text	event_date date	event_location text	event_description text
1	2	Pradeep Concert	2024-11-30	Chennai	An exciting music festival.
2	3	AR Rahman Concert	2024-12-15	Dubai	A showcase of Oscar Winning Performance.
3	4	Debugging 2024	2024-12-10	Austin	A 24-hour coding challenge.
4	1	Hackathon 2024	2024-12-01	ECR	Updated description for the tech conference.

c) Deleting an event.

61   Select * from Events;

event_id [PK] integer	event_name text	event_date date	event_location text	event_description text
1	2	Pradeep Concert	2024-11-30	Chennai	An exciting music festival.
2	3	AR Rahman Concert	2024-12-15	Dubai	A showcase of Oscar Winning Performance.
3	4	Debugging 2024	2024-12-10	Austin	A 24-hour coding challenge.

4) Manage Track Attendees & Handle Events
a) Inserting a new attendee. b)Registering an attendee for an event.

select * from Attendees;

Data Output   Messages   Notifications

	attendee_id [PK] integer	attendee_name text	attendee_phone numeric (15)	attendee_email text	attendee_city text
1	1	Karthick	1234567890	karthick@example.com	Chennai
2	2	Athish	9876543210	athish@example.com	Dubai
3	3	Abdul	1122334455	abdul@example.com	NY
4	4	Sakthi	5566778899	sakthi@example.com	Chennai
5	5	Subash	3344556677	subash@example.com	Besant Nagar

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

Retrieve event information

Data Output   Messages   Notifications

	event_id [PK] integer	event_name text	event_date date	event_location text	event_description text
1	2	Pradeep Concert	2024-11-30	Chennai	An exciting music festival.
2	3	AR Rahman Concert	2024-12-15	Dubai	A showcase of Oscar Winning Performance.
3	4	Debugging 2024	2024-12-10	Austin	A 24-hour coding challenge.

generate attendee lists

Data Output   Messages   Notifications

	attendee_name text 🔒	attendee_email text 🔒	attendee_city text 🔒
1	Abdul	abdul@example.com	NY

calculate event attendance statistics.

Data Output   Messages   Notifications

event_name text	total_attendees bigint
1	Pradeep Concert	1
2	AR Rahman Concert	1
3	Debugging 2024	0