**Task3**

**Project: Event Management System using PostgreSQL-**

**TASK 3: 1)**

CREATE DATABASE EventsManagement;

CREATE TABLE Events (

Event\_Id INT PRIMARY KEY,

Event\_Name VARCHAR(100),

Event\_Date DATE,

Event\_Location VARCHAR(200),

Event\_Description TEXT

);

CREATE TABLE Attendees (

Attendee\_Id INT PRIMARY KEY,

Attendee\_Name VARCHAR(50),

Attendee\_Phone VARCHAR(15),

Attendee\_Email VARCHAR(50),

Attendee\_City VARCHAR(20)

);

CREATE TABLE Registrations (

Registration\_Id INT PRIMARY KEY,

Event\_Id INT,

Attendee\_Id INT,

Registration\_Date DATE,

Registration\_Amount DECIMAL(10, 2),

FOREIGN KEY (Event\_Id) REFERENCES Events(Event\_Id),

FOREIGN KEY (Attendee\_Id) REFERENCES Attendees(Attendee\_Id)

);

**TASK 3: 2)**

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

(1,'Makar Sankranti', '2024-01-16', 'Pune', 'A festival celebrated with kite flying and sweets.'),

(2,'Holi Celebration', '2024-03-27', 'Mumbai', 'A festival of colors.'),

(3,'Navratri', '2024-10-5', 'Ahmedabad', 'A nine day festival dedicated to worship of Goddess Durga.');

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

(1,'Mangesh Raghuvan', '123', 'mangeshraghuvan@gmail.com', 'Pune'),

(2,'Rohan Raghuvan', '987', 'rohanraghuvan@gmail.com', 'Mumbai'),

(3,'Chetan Supe', '777', 'chetansupe@gmail.com', 'Ahmedabad');

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

(1, 1, 1, '2024-01-10', 500.00),

(2, 2, 2, '2024-03-20', 300.00),

(3, 3, 3, '2024-10-1', 200.00);

**TASK 3: 3a)**

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

(4,'Ganesh Chaturthi', '2024-09-02', 'Pune', 'A ten day festival celebrating the birth of Lord Ganesha.');

**TASK 3: 3b)**

Update Events SET Event\_Name = 'Ram Navami', Event\_Date = '2024-04-16', Event\_Location = 'Gujarat'

Where Event\_Id = 2;

**TASK 3: 3c)**

Delete from Registrations

Where Event\_Id = 3;

Delete from Events

Where Event\_Id = 3;

**TASK 3: 4a)**

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

(4,'Sai Kumar', '999', 'saikumar@gmail.com', 'Andhra Pradesh');

**TASK 3: 4b)**

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

(4, 4, 4, '2024-09-01', 100.00);

**TASK 3: 5)**

**To retrieve event information:**

Select \* from Events;

**To generate attendee lists:**

SELECT Attendees.Attendee\_Id, Attendees.Attendee\_Name, Attendees.Attendee\_Phone, Attendees.Attendee\_Email, Attendees.Attendee\_City

FROM Attendees

JOIN Registrations ON Attendees.Attendee\_Id = Registrations.Attendee\_Id;

**To calculate event attendance statistics:**

SELECT Events.Event\_Name, COUNT(Registrations.Attendee\_Id)

FROM Events

JOIN Registrations ON Events.Event\_Id = Registrations.Event\_Id

GROUP BY Events.Event\_Name;

SELECT Events.Event\_Name, SUM(Registrations.Registration\_Amount)

FROM Events

JOIN Registrations ON Events.Event\_Id = Registrations.Event\_Id

GROUP BY Events.Event\_Name;

SELECT Events.Event\_Name, AVG(Registrations.Registration\_Amount)

FROM Events

JOIN Registrations ON Events.Event\_Id = Registrations.Event\_Id

GROUP BY Events.Event\_Name;