-- 1. Database Creation

CREATE DATABASE EventsManagement;

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-- 1. Create Events table

CREATE TABLE Eventss1 (

Event\_Id serial PRIMARY KEY,

Event\_Name text,

Event\_Date date,

Event\_Location text,

Event\_Description text

);

-- 1. Create Attendees table

CREATE TABLE Attendeess1 (

Attendee\_Id serial PRIMARY KEY,

Attendee\_Name text,

Attendee\_Phone text,

Attendee\_Email text,

Attendee\_City text

);

-- 1. Create Registrations table with foreign key constraints

CREATE TABLE Registrationss1 (

Registration\_Id serial PRIMARY KEY,

Event\_Id INT,

Attendee\_Id INT,

Registration\_Date date,

Registration\_Amount numeric,

FOREIGN KEY (Event\_Id) REFERENCES Eventss1(Event\_Id),

FOREIGN KEY (Attendee\_Id) REFERENCES Attendeess1(Attendee\_Id)

);

-- 2. Data Creation

-- Sample data for Events

INSERT INTO Eventss1 (Event\_Id, Event\_Name, Event\_Date, Event\_Location, Event\_Description)

VALUES

('1','Conference', '2023-12-15', 'Convention Center', 'Annual tech conference'),

('2','Workshop', '2023-10-20', 'Training Center', 'Web development workshop'),

('3','Seminar', '2023-11-05', 'University Auditorium', 'Marketing trends seminar');

-- Sample data for Attendees

INSERT INTO Attendeess1 (Attendee\_Id, Attendee\_Name, Attendee\_Phone, Attendee\_Email, Attendee\_City)

VALUES

('1','Amit Kumar', '123-456-7890', 'amit@example.com', 'Delhi'),

('2','Priya Sharma', '987-654-3210', 'priya@example.com', 'Lucknow'),

('3','Rajesh Patel', '555-555-5555', 'rajesh@example.com', 'Mumbai');

-- Sample data for Registrations

INSERT INTO Registrationss1 (Event\_Id, Attendee\_Id, Registration\_Date, Registration\_Amount)

VALUES

(1, 1, '2023-12-01', 50.00),

(1, 2, '2023-11-25', 50.00),

(2, 1, '2023-10-15', 75.00);

-- 3. Manage Event Details

-- a) Inserting a new event

INSERT INTO Eventss1 (Event\_Name, Event\_Date, Event\_Location, Event\_Description)

VALUES ('Exhibition', '2024-02-10', 'Art Gallery', 'Art exhibition');

-- b) Updating an event's information

UPDATE Eventss1

SET Event\_Location = 'Museum'

WHERE Event\_Id = 4; -- Update the event with a specific ID

-- c) Deleting an event

DELETE FROM Eventss1

WHERE Event\_Id = 3; -- Delete the event with a specific ID

-- 4. Manage Track Attendees & Handle Events

-- a) Inserting a new attendee

INSERT INTO Attendeess1 (Attendee\_Name, Attendee\_Phone, Attendee\_Email, Attendee\_City)

VALUES ('Krish KK', '333-333-3333', 'krish@example.com', 'San Francisco');

-- b) Registering an attendee for an event

INSERT INTO Registrationss1 (Event\_Id, Attendee\_Id, Registration\_Date, Registration\_Amount)

VALUES (1, 3, '2023-12-05', 50.00); -- Register Krish KK for the conference

-- 5. Develop queries

-- Retrieve event information

SELECT \* FROM Eventss1;

-- Generate attendee lists for a specific event

SELECT A.Attendee\_Name

FROM Attendeess1 A

INNER JOIN Registrationss1 R ON A.Attendee\_Id = R.Attendee\_Id

WHERE R.Event\_Id = 1; -- Replace 1 with the event ID you want to retrieve attendees for

-- Calculate event attendance statistics (count of attendees for each event)

SELECT E.Event\_Name, COUNT(R.Attendee\_Id) AS Attendee\_Count

FROM Eventss1 E

LEFT JOIN Registrationss1 R ON E.Event\_Id = R.Event\_Id

GROUP BY E.Event\_Name;

