**TASK 3 – OUTPUT SCREENSHOTS**

**-- 1. Database Creation**

-- CREATE DATABASE EventsManagement;

-- Connect to the EventsManagement database

**-- Create the Events table**

CREATE TABLE Events (

Event\_Id SERIAL PRIMARY KEY,

Event\_Name TEXT,

Event\_Date DATE,

Event\_Location TEXT,

Event\_Description TEXT

);

**-- Create the Attendees table**

CREATE TABLE Attendees (

Attendee\_Id SERIAL PRIMARY KEY,

Attendee\_Name TEXT,

Attendee\_Phone TEXT,

Attendee\_Email TEXT,

Attendee\_City TEXT

);

**-- Create the Registrations table**

CREATE TABLE Registrations (

Registration\_Id SERIAL PRIMARY KEY,

Event\_Id INT,

Attendee\_Id INT,

Registration\_Date DATE,

Registration\_Amount NUMERIC,

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

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

);

**-- 2. Data Creation**

-- Insert sample data for Events, Attendees, and Registrations tables

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

VALUES

('Conference 2023', '2023-11-15', 'City Convention Center', 'Annual tech conference'),

('Music Festival', '2023-08-20', 'Central Park', 'Outdoor music event'),

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

VALUES

('Alice Johnson', '555-123-4567', 'alice@email.com', 'New York'),

('Bob Smith', '987-654-3210', 'bob@email.com', 'Los Angeles'),

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

VALUES

(1, 1, '2023-11-05', 100.00),

(2, 2, '2023-07-15', 50.00),

**-- 3. Manage Event Details**

**-- a. Inserting a new event**

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

VALUES ('Workshop', '2023-10-10', 'Online', 'Hands-on workshop on web development');

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

UPDATE Events

SET Event\_Location = 'City Hall'

WHERE Event\_Name = 'Conference 2023';

**-- c. Deleting an event**

**-- Drop the existing foreign key constraint**

ALTER TABLE Registrations DROP CONSTRAINT registrations\_event\_id\_fkey;

**-- Add a new foreign key constraint with ON DELETE CASCADE**

ALTER TABLE Registrations

ADD CONSTRAINT registrations\_event\_id\_fkey

FOREIGN KEY (Event\_Id)

REFERENCES Events(Event\_Id)

ON DELETE CASCADE;

DELETE FROM Events

WHERE Event\_Name = 'Music Festival';

**-- 4. Manage Track Attendees & Handle Events**

**-- a. Inserting a new attendee**

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

VALUES ('Catherine Lee', '123-456-7890', 'catherine@email.com', 'Chicago');

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

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

VALUES (1, 3, '2023-10-12', 75.00);

**-- 5. Develop queries to retrieve information**

-- You can create various OLAP queries here to retrieve information based on your requirements.

**-- Total registration amount for each event**

SELECT e.Event\_Name, SUM(r.Registration\_Amount) AS Total\_Amount

FROM Events e

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

GROUP BY e.Event\_Name;

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**-- List of attendees for a specific event**

SELECT a.Attendee\_Name

FROM Attendees a

JOIN Registrations r ON a.Attendee\_Id = r.Attendee\_Id

WHERE r.Event\_Id = 1;

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