Task 3.

\*1. Database Creation and Table Creation:\*

sql

-- Create the "EventsManagement" database

CREATE DATABASE EventsManagement;

-- Connect to the database

\c EventsManagement;

-- Create tables for Events, Attendees, and Registrations

CREATE TABLE Events (

Event\_id serial PRIMARY KEY,

Event\_Name varchar(255),

Event\_Date date,

Event\_Location varchar(255),

Event\_Description text

);

CREATE TABLE Attendees (

Attendee\_id serial PRIMARY KEY,

Attendee\_Name varchar(255),

Attendee\_Phone varchar(15),

Attendee\_Email varchar(255),

Attendee\_City varchar(255)

);

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 numeric(10, 2)

);

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

VALUES

('Diwali Celebration', '2023-11-04', 'Mumbai', 'Join us for a grand Diwali celebration!'),

('Tech Conference', '2023-12-15', 'Bengaluru', 'Explore the latest in technology and innovation.'),

('Cultural Festival', '2024-01-20', 'Jaipur', 'A colorful festival showcasing Indian culture and heritage.');

\*Sample Data for Attendees:\*

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

VALUES

('Rajesh Kumar', '9876543210', 'rajesh@gmail.com', 'Delhi'),

('Priya Verma', '8765432109', 'priya@gmail.com', 'Mumbai'),

('Suresh Sharma', '7654321098', 'suresh@gmail.com', 'Chennai'),

('Amit Singh', '6543210987', 'amit@gmail.com', 'Bengaluru'),

('Neha Patel', '5432109876', 'neha@gmail.com', 'Ahmedabad');

-- Registrations for Diwali Celebration (Event with ID 1)

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

VALUES

(1, 1, '2023-11-02', 200.00),

(1, 2, '2023-11-03', 150.00),

(1, 3, '2023-11-04', 180.00);

-- Registrations for Tech Conference (Event with ID 2)

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

VALUES

(2, 4, '2023-12-10', 300.00),

(2, 5, '2023-12-11', 250.00);

-- Registrations for Cultural Festival (Event with ID 3)

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

VALUES

(3, 1, '2024-01-18', 100.00),

(3, 4, '2024-01-19', 120.00),

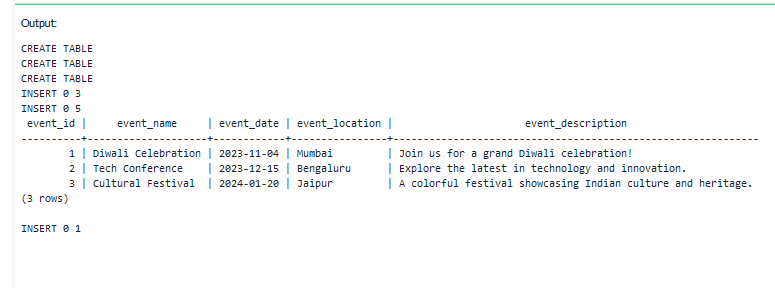
(3, 5, '2024-01-20', 150.00);

Task 4 3b

-- Example: Insert a new event

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

VALUES ('New Year Party', '2023-12-31', 'Goa', 'Celebrate the New Year with us in Goa!');



Task 4.3b

-- Example: Update event information (e.g., for event with ID 1)

UPDATE Events

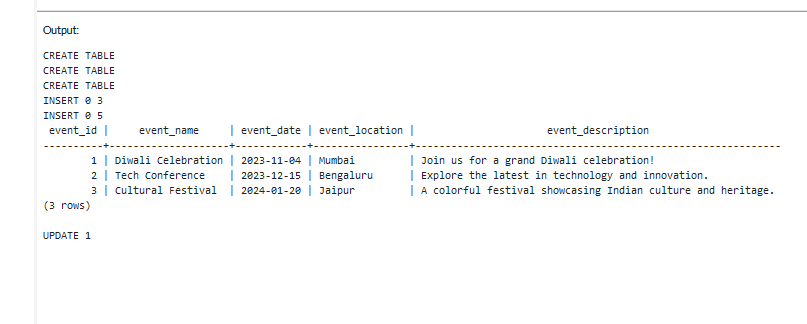
SET Event\_Name = 'Updated Event Name',

Event\_Date = '2023-12-15',

Event\_Location = 'Updated Location',

Event\_Description = 'Updated event description'

WHERE Event\_id = 1;

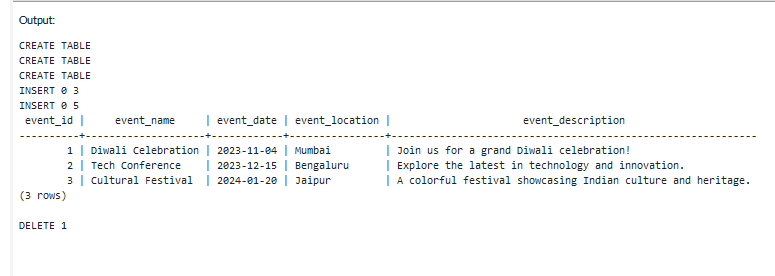


Task43c

-- Example: Delete an event (e.g., for event with ID 2)

DELETE FROM Events

WHERE Event\_id = 2;

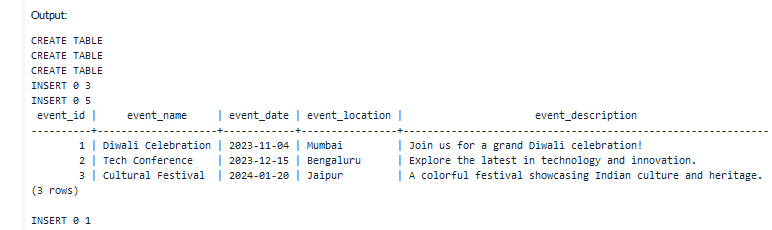


Task 4.4a

-- Example: Insert a new attendee

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

VALUES ('New Attendee', '123-456-7890', 'new.attendee@example.com', 'New City');

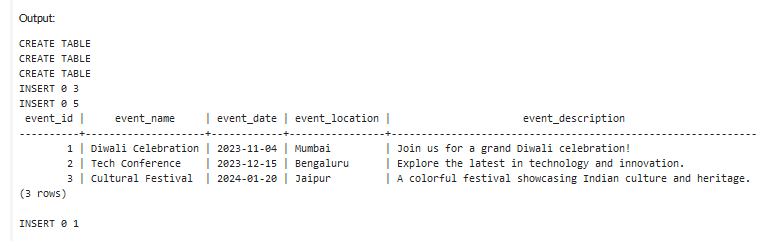


Task 4.4.b

-- Example: Register an attendee (e.g., Attendee with ID 1) for an event (e.g., Event with ID 1)

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

VALUES (1, 1, '2023-11-10', 50.00);

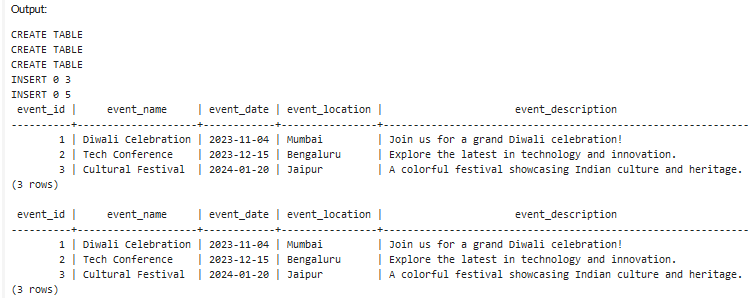


Task4.5

-- Retrieve event information (e.g., all events)

SELECT Event\_id, Event\_Name, Event\_Date, Event\_Location, Event\_Description

FROM Events;



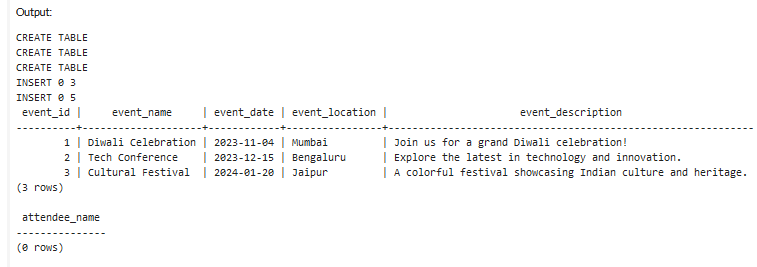
-- Generate an attendee list for a specific event (e.g., Event with ID 1)

SELECT A.Attendee\_Name

FROM Attendees AS A

JOIN Registrations AS R ON A.Attendee\_id = R.Attendee\_id

WHERE R.Event\_id = 1;



-- Calculate event attendance statistics (e.g., for Event with ID 1)

SELECT E.Event\_Name,

COUNT(R.Attendee\_id) AS Total\_Attendees,

SUM(R.Registration\_Amount) AS Total\_Revenue

FROM Events AS E

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

WHERE E.Event\_id = 1

GROUP BY E.Event\_Name;

