

-- 1.Database Creation

CREATE TABLE Events (

Event\_Id VARCHAR (10) PRIMARY KEY,

Event\_Name VARCHAR (100),

Event\_Date Date,

Event\_Location VARCHAR (100),

Event\_Description VARCHAR (100)

);

CREATE TABLE Attendees (

Attendee\_Id VARCHAR (10) PRIMARY KEY,

Attendee\_Name VARCHAR (100),

Attendee\_Phone NUMERIC(10, 0),

Attendee\_Email VARCHAR(100),

Attendee\_City VARCHAR (100)

);

CREATE TABLE Registrations (

Registration\_id SERIAL PRIMARY KEY,

Event\_Id VARCHAR(10),

Attendee\_Id VARCHAR(10),

Registration\_Date DATE,

Registration\_Amount NUMERIC(10, 0),

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

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

);

## -- 2.Data Creation

```
INSERT INTO Events (Event_Id, Event_Name, Event_Date, Event_Location,  
Event_Description)
```

```
VALUES ('E01', 'Tech Conference 2025', '2025-11-25', 'Bangalore', 'tech conference on AI  
and ML'),
```

```
('E02', 'Marketing Workshop', '2025-11-05', 'Mumbai', 'A 2-day digital marketing intensive'),
```

```
('E03', 'Startup Pitch Day', '2025-11-18', 'DELHI', 'Showcasing top new startups'),
```

```
('E04', 'Cloud Computing Seminar', '2025-12-15', 'Pune', 'Deep dive into AWS and Azure  
platforms'),
```

```
('E05', 'Design Thinking Meetup', '2025-12-7', 'Hyderabad', 'Creative problem-solving  
session');
```

```
INSERT INTO Attendees (Attendee_Id, Attendee_Name, Attendee_Phone, Attendee_Email,  
Attendee_City)
```

```
VALUES ('A11', 'Rahul', 9876543210, 'rahul.amazon.com', 'Bangalore'),
```

```
('A12', 'Priya', 9123456789, 'priya.amazon.com', 'Mumbai'),
```

```
('A13', 'Amit', 9988776655, 'amit.amazon.com', 'DELHI'),
```

```
('A14', 'Neha', 9001122334, 'neha.amazon.com', 'Pune'),
```

```
('A15', 'Vikram', 8899001122, 'vikram.amazon.com', 'Hyderabad');
```

```
INSERT INTO Registrations (Event_Id, Attendee_Id, Registration_Date,  
Registration_Amount)
```

```
VALUES ('E01', 'A11', '2025-09-20', 1000.00), -- Rahul registered for Tech Conference
```

```
('E01', 'A12', '2025-09-21', 1000.00), -- Priya registered for Tech Conference
```

```
('E02', 'A12', '2025-10-15', 800.00), -- Priya also registered for Marketing Workshop
```

```
('E03', 'A13', '2025-10-30', 600.00), -- Amit registered for the Pitch Day
```

```
('E04', 'A14', '2025-11-01', 900.00), -- Neha registered for Cloud Seminar
```

```
('E05', 'A15', '2025-11-10', 500.00); -- Vikram registered for Design Meetup
```

```
SELECT * FROM Events;
```

Output:

```
CREATE TABLE
CREATE TABLE
CREATE TABLE
INSERT 0 5
INSERT 0 5
INSERT 0 6
```

event_id	event_name	event_date	event_location	event_description
E01	Tech Conference 2025	2025-11-25	Bangalore	tech conference on AI and ML
E02	Marketing Workshop	2025-11-05	Mumbai	A 2-day digital marketing intensive
E03	Startup Pitch Day	2025-11-18	DELHI	Showcasing top new startups
E04	Cloud Computing Seminar	2025-12-15	Pune	Deep dive into AWS and Azure platforms
E05	Design Thinking Meetup	2025-12-07	Hyderabad	Creative problem-solving session

(5 rows)

SELECT \* FROM Attendees;

attendee_id	attendee_name	attendee_phone	attendee_email	attendee_city
A11	Rahul	9876543210	rahul.amazon.com	Bangalore
A12	Priya	9123456789	priya.amazon.com	Mumbai
A13	Amit	9988776655	amit.amazon.com	DELHI
A14	Neha	9001122334	neha.amazon.com	Pune
A15	Vikram	8899001122	vikram.amazon.com	Hyderabad

(5 rows)

SELECT \* FROM Registrations;

registration_id	event_id	attendee_id	registration_date	registration_amount
1	E01	A11	2025-09-20	1000
2	E01	A12	2025-09-21	1000
3	E02	A12	2025-10-15	800
4	E03	A13	2025-10-30	600
5	E04	A14	2025-11-01	900
6	E05	A15	2025-11-10	500

(6 rows)

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

```
INSERT INTO Events (Event_Id, Event_Name, Event_Date, Event_Location,
Event_Description)
```

```
VALUES ('E06', 'Data Science Bootcamp', '2026-01-15', 'Chennai', 'A training session on
Python');
```

--b) Updating an event's information.

UPDATE Events

SET

Event\_Location = 'Bangalore',

Event\_Description = 'A 2-day digital marketing intensive, moved to a new city.'

WHERE

Event\_Id = 'E02';

INSERT 0 1

UPDATE 1

ALTER TABLE

ALTER TABLE

DELETE 1

event_id	event_name	event_date	event_location	event_description
E01	Tech Conference 2025	2025-11-25	Bangalore	tech conference on AI and ML
E03	Startup Pitch Day	2025-11-18	DELHI	Showcasing top new startups
E04	Cloud Computing Seminar	2025-12-15	Pune	Deep dive into AWS and Azure platforms
E06	Data Science Bootcamp	2026-01-15	Chennai	A training session on Python
E02	Marketing Workshop	2025-11-05	Bangalore	A 2-day digital marketing intensive, moved to a new city.

(5 rows)

-- c) Deleting an event.

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

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\_Id = 'E05';

SELECT \* FROM Events;

SELECT \* FROM Attendees;

SELECT \* FROM Registrations;

event_id	event_name	event_date	event_location	event_description
E01	Tech Conference 2025	2025-11-25	Bangalore	tech conference on AI and ML
E03	Startup Pitch Day	2025-11-18	DELHI	Showcasing top new startups
E04	Cloud Computing Seminar	2025-12-15	Pune	Deep dive into AWS and Azure platforms
E06	Data Science Bootcamp	2026-01-15	Chennai	A training session on Python
E02	Marketing Workshop	2025-11-05	Bangalore	A 2-day digital marketing intensive, moved to a new city.

(5 rows)

attendee_id	attendee_name	attendee_phone	attendee_email	attendee_city
A11	Rahul	9876543210	rahul.amazon.com	Bangalore
A12	Priya	9123456789	priya.amazon.com	Mumbai
A13	Amit	9988776655	amit.amazon.com	DELHI
A14	Neha	9001122334	neha.amazon.com	Pune
A15	Vikram	8899001122	vikram.amazon.com	Hyderabad

(5 rows)

registration_id	event_id	attendee_id	registration_date	registration_amount
1	E01	A11	2025-09-20	1000
2	E01	A12	2025-09-21	1000
3	E02	A12	2025-10-15	800
4	E03	A13	2025-10-30	600
5	E04	A14	2025-11-01	900

(5 rows)

-- 4) Manage Track Attendees & Handle Events : a) Inserting a new attendee.

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

VALUES ('A16', 'Suresh Menon', 7654327898, 'suresh.amazon.com', 'Chennai');

-- b) Registering an attendee for an event.

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

VALUES ('E01', 'A16', CURRENT\_DATE, 1000.00);

SELECT \* FROM Events;

SELECT \* FROM Attendees;

SELECT \* FROM Registrations;

```

INSERT 0 1
INSERT 0 1
event_id | event_name | event_date | event_location | event_description
-----+-----+-----+-----+-----
E01 | Tech Conference 2025 | 2025-11-25 | Bangalore | tech conference on AI and ML
E03 | Startup Pitch Day | 2025-11-18 | DELHI | Showcasing top new startups
E04 | Cloud Computing Seminar | 2025-12-15 | Pune | Deep dive into AWS and Azure platforms
E06 | Data Science Bootcamp | 2026-01-15 | Chennai | A training session on Python
E02 | Marketing Workshop | 2025-11-05 | Bangalore | A 2-day digital marketing intensive, moved to a new city.
(5 rows)

attendee_id | attendee_name | attendee_phone | attendee_email | attendee_city
-----+-----+-----+-----+-----
A11 | Rahul | 9876543210 | rahul.amazon.com | Bangalore
A12 | Priya | 9123456789 | priya.amazon.com | Mumbai
A13 | Amit | 9988776655 | amit.amazon.com | DELHI
A14 | Neha | 9001122334 | neha.amazon.com | Pune
A15 | Vikram | 8899001122 | vikram.amazon.com | Hyderabad
A16 | Suresh Menon | 7654327898 | suresh.amazon.com | Chennai
(6 rows)

registration_id | event_id | attendee_id | registration_date | registration_amount
-----+-----+-----+-----+-----
1 | E01 | A11 | 2025-09-20 | 1000
2 | E01 | A12 | 2025-09-21 | 1000
3 | E02 | A12 | 2025-10-15 | 800
4 | E03 | A13 | 2025-10-30 | 600
5 | E04 | A14 | 2025-11-01 | 900
7 | E01 | A16 | 2025-12-03 | 1000
(6 rows)

```

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

SELECT

E.Event\_Name,

E.Event\_Date,

R.Registration\_Amount,

A.Attendee\_Name

FROM

Registrations R

JOIN

Events E ON R.Event\_Id = E.Event\_Id

JOIN

Attendees A ON R.Attendee\_Id = A.Attendee\_Id

ORDER BY

Event\_Date ASC;

SELECT

Attendee\_City,

```

COUNT(Attendee_Id) AS Number_of_Attendees
FROM
    Attendees
GROUP BY
    Attendee_City
ORDER BY
    Number_of_Attendees DESC;

```

event_name	event_date	registration_amount	attendee_name
Marketing Workshop	2025-11-05	800	Priya
Startup Pitch Day	2025-11-18	600	Amit
Tech Conference 2025	2025-11-25	1000	Rahul
Tech Conference 2025	2025-11-25	1000	Priya
Tech Conference 2025	2025-11-25	1000	Suresh Menon
Cloud Computing Seminar	2025-12-15	900	Neha

(6 rows)

attendee_city	number_of_attendees
Chennai	1
DELHI	1
Hyderabad	1
Bangalore	1
Mumbai	1
Pune	1

(6 rows)