

-- 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	9988776555	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)