OUTPUT SHEET

Task 3

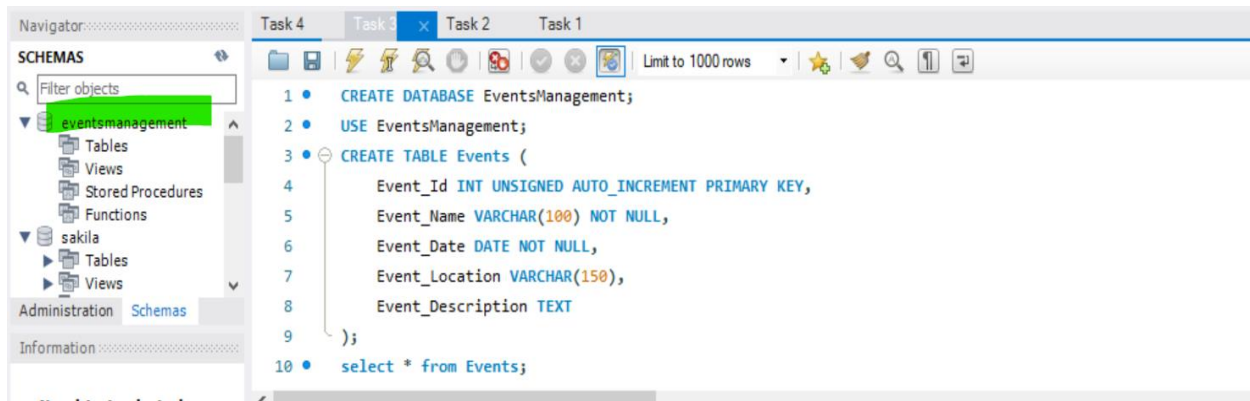**Project: Event Management System using MySQL.**

Objective: To develop the application that allows users to create and manage events, track attendees, and handle event registrations efficiently. The project will include the following tasks:
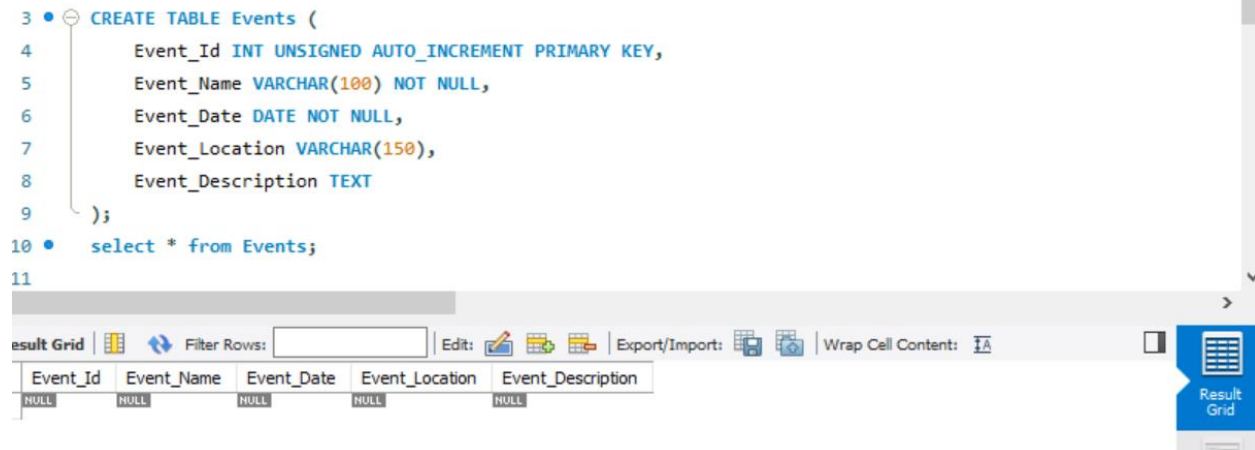
1. Database Creation

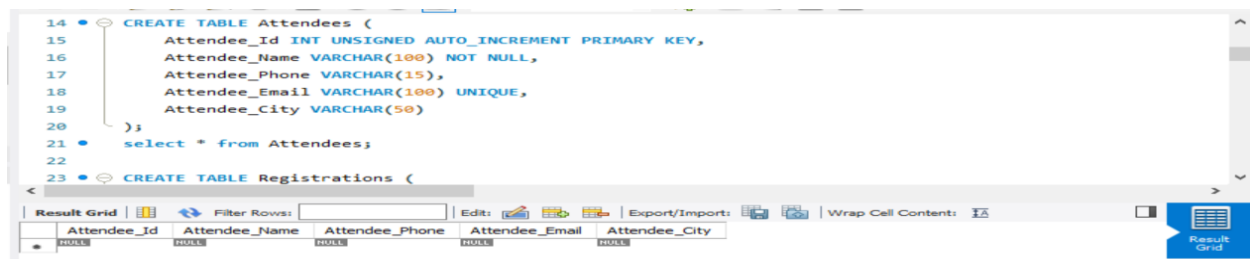a. Create a database named "EventsManagement."

b. Create tables for Events, Attendees, and Registrations.

i. Events- Event_Id, Event_Name, Event_Date, Event_Location, Event_Description

ii. Attendees- Attendee_Id, Attendee_Name, Attendee_Phone, Attendee_Email, Attendee_City

iii. Registrations-Registration_id, Event_Id, Attendee_Id,Registration_Date,Registration_Amount.

The FOREIGN KEY constraint in the Registrations table references the Event_Id column in the Events table and the Attendee_Id column in the Attendees table.

2. Data Creation
Insert some sample data for Events, Attendees, and Registrations tables with respective fields.
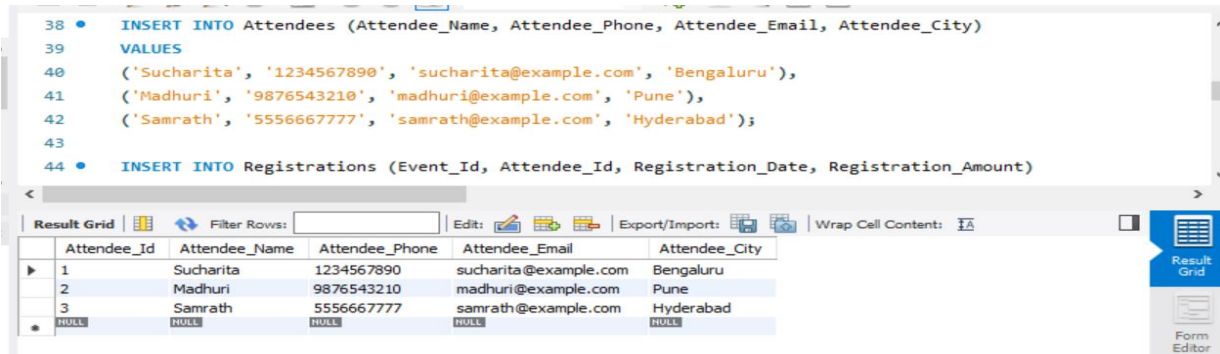
   a. Insert data in Events Table

b. Insert data in Attendees Table

```
38 ●   INSERT INTO Attendees (Attendee_Name, Attendee_Phone, Attendee_Email, Attendee_City)
39     VALUES
40     ('Sucharita', '1234567890', 'sucharita@example.com', 'Bengaluru'),
41     ('Madhuri', '9876543210', 'madhuri@example.com', 'Pune'),
42     ('Samrath', '5556667777', 'samrath@example.com', 'Hyderabad');
43
44 ●   INSERT INTO Registrations (Event_Id, Attendee_Id, Registration_Date, Registration_Amount)
```

Attendee_Id	Attendee_Name	Attendee_Phone	Attendee_Email	Attendee_City
1	Sucharita	1234567890	sucharita@example.com	Bengaluru
2	Madhuri	9876543210	madhuri@example.com	Pune
3	Samrath	5556667777	samrath@example.com	Hyderabad
NULL	NULL	NULL	NULL	NULL

c. Insert data in Registrations Table

```
Limit to 1000 rows
44 ●   INSERT INTO Registrations (Event_Id, Attendee_Id, Registration_Date, Registration_Amount)
45     VALUES
46     (1, 1, '2024-12-01', 150.00),
47     (2, 2, '2024-11-10', 200.00),
48     (3, 3, '2024-11-18', 300.00);
49
50
```

Registration_Id	Event_Id	Attendee_Id	Registration_Date	Registration_Amount
1	1	1	2024-12-01	150.00
2	2	2	2024-11-10	200.00
3	3	3	2024-11-18	300.00
NULL	NULL	NULL	NULL	NULL

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

```
51 ●   INSERT INTO Events (Event_Name, Event_Date, Event_Location, Event_Description)
52     VALUES
53     ('Fashon Show', '2024-12-05', 'Ramp Gallary', 'A display of modern Fashon Jewellery and Dresses');
```

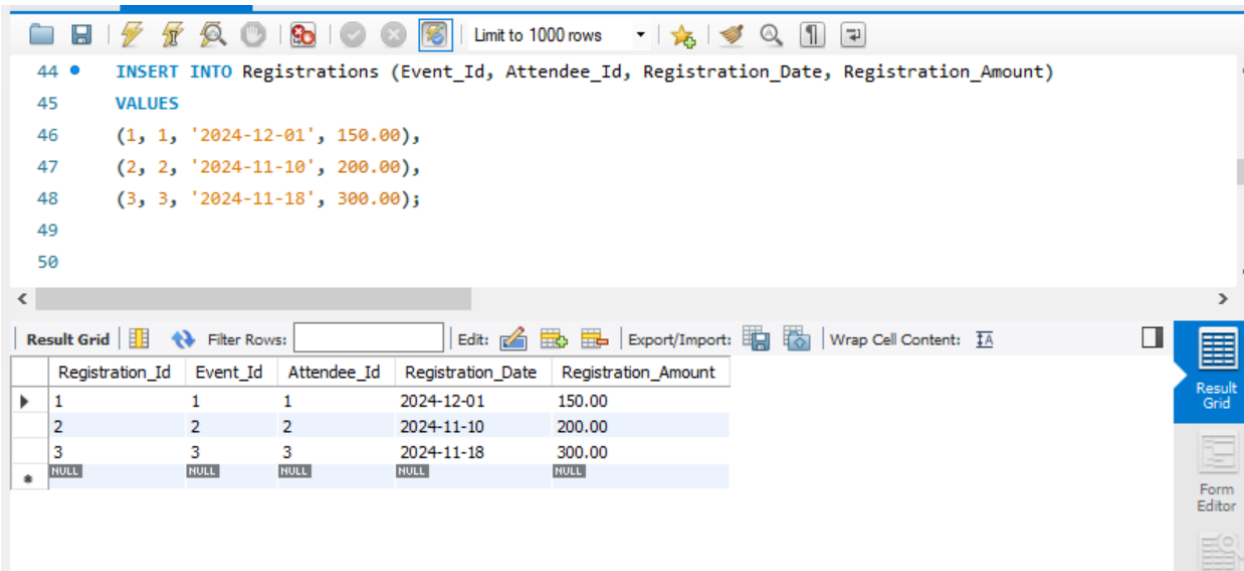| Event_Id	Event_Name	Event_Date	Event_Location	Event_Description
1	Music Concert	2024-12-10	City Arena	An exciting evening of live music and performan...
2	Tech Conference	2024-11-15	Tech Hub	A conference on the latest trends in technology
3	Food Festival	2024-11-20	Central Park	A festival celebrating local and international cuis...
4	Fashon Show	2024-12-05	Ramp Gallary	A display of modern Fashon Jewellery and Dres...
NULL	NULL	NULL	NULL	NULL

b) Updating an event's information.

```
55 •    UPDATE Events
56        SET Event_Location = 'Grand Hall', Event_Description = 'Updated event details'
57        WHERE Event_Id = 1;
```

Event_Id	Event_Name	Event_Date	Event_Location	Event_Description
1	Music Concert	2024-12-10	Grand Hall	Updated event details
2	Tech Conference	2024-11-15	Tech Hub	A conference on the latest trends in technology
3	Food Festival	2024-11-20	Central Park	A festival celebrating local and international cuis...
4	Fashon Show	2024-12-05	Ramp Gallary	A display of modern Fashon Jewellery and Dres...
NULL	NULL	NULL	NULL	NULL

c) Deleting an event.

```
59 •    DELETE FROM Events
60        WHERE Event_Id = 3;
61
```

Event_Id	Event_Name	Event_Date	Event_Location	Event_Description
1	Music Concert	2024-12-10	Grand Hall	Updated event details
2	Tech Conference	2024-11-15	Tech Hub	A conference on the latest trends in technology
4	Fashon Show	2024-12-05	Ramp Gallary	A display of modern Fashon Jewellery and Dres...
NULL	NULL	NULL	NULL	NULL

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

```
62 •    INSERT INTO Attendees (Attendee_Name, Attendee_Phone, Attendee_Email, Attendee_City)
63        VALUES
64        ('Shankar', '7978699431', 'Shankar@example.com', 'Mumbai');
65
```

Attendee_Id	Attendee_Name	Attendee_Phone	Attendee_Email	Attendee_City
1	Sucharita	1234567890	sucharita@example.com	Bengaluru
2	Madhuri	9876543210	madhuri@example.com	Pune
3	Samrath	5556667777	samrath@example.com	Hyderabad
4	Shankar	7978699431	Shankar@example.com	Mumbai
NULL	NULL	NULL	NULL	NULL

b) Registering an attendee for an event.

```
66 •   INSERT INTO Registrations (Event_Id, Attendee_Id, Registration_Date, Registration_Amount)
67     VALUES
68     (1, 4, '2024-12-01', 150.00);  -- Register Shankar for Music Concert
69
```

Registration_Id	Event_Id	Attendee_Id	Registration_Date	Registration_Amount
1	1	1	2024-12-01	150.00
2	2	2	2024-11-10	200.00
4	1	4	2024-12-01	150.00
NULL	NULL	NULL	NULL	NULL

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

a) To retrieve event information

```
70 •   SELECT * FROM Events;
71
72     -- To generate attendee list for a specific Event for ex:- Tech Conference
```

Event_Id	Event_Name	Event_Date	Event_Location	Event_Description
1	Music Concert	2024-12-10	Grand Hall	Updated event details
2	Tech Conference	2024-11-15	Tech Hub	A conference on the latest trends in technology
4	Fashon Show	2024-12-05	Ramp Gallary	A display of modern Fashon Jewellery and Dres...
NULL	NULL	NULL	NULL	NULL

b) To generate attendee list for a specific Event (Tech Conference)

```
74 •   SELECT Attendees.Attendee_Name, Attendees.Attendee_Email, Registrations.Registration_Date
75     FROM Attendees
76     JOIN Registrations ON Attendees.Attendee_Id = Registrations.Attendee_Id
77     JOIN Events ON Registrations.Event_Id = Events.Event_Id
78     WHERE Events.Event_Name = 'Tech Conference';
```

Attendee_Name	Attendee_Email	Registration_Date
Madhuri	madhuri@example.com	2024-11-10

c) To generate attendee lists

```
82 •    SELECT a.Attendee_Name, a.Attendee_Email, e.Event_Name
83      FROM Attendees a
84      JOIN Registrations r ON a.Attendee_Id = r.Attendee_Id
85      JOIN Events e ON r.Event_Id = e.Event_Id;
86
```

Attendee_Name	Attendee_Email	Registration_Date
Madhuri	madhuri@example.com	2024-11-10

d) To calculate event attendance statistics

```
89 •    SELECT e.Event_Name, COUNT(r.Registration_Id) AS Total_Attendees, SUM(r.Registration_Amount) AS Total_Reve
90      FROM Events e
91      LEFT JOIN Registrations r ON e.Event_Id = r.Event_Id
92      GROUP BY e.Event_Name;
```

Event_Name	Total_Attendees	Total_Revenue
Music Concert	2	300.00
Tech Conference	1	200.00
Fashon Show	0	NULL

Query Explanation

1. Database Creation

CREATE DATABASE EventsManagement;

USE EventsManagement;

2. Create Tables

a. Create the Events table

CREATE TABLE Events (

   Event_Id INT UNSIGNED AUTO_INCREMENT PRIMARY KEY,

   Event_Name VARCHAR(100) NOT NULL,

   Event_Date DATE NOT NULL,

   Event_Location VARCHAR(150),

   Event_Description TEXT

);

select * from Events;

Explanation:-

In MySQL, when we define a column with AUTO_INCREMENT, MySQL automatically generates unique values for that column when new rows are inserted.

b. Create the Attendees table

CREATE TABLE Attendees (

   Attendee_Id INT UNSIGNED AUTO_INCREMENT PRIMARY KEY,

   Attendee_Name VARCHAR(100) NOT NULL,

   Attendee_Phone VARCHAR(15),

   Attendee_Email VARCHAR(100) UNIQUE,

   Attendee_City VARCHAR(50)

);

select * from Attendees;

c. Create the Registrations table

```sql
CREATE TABLE Registrations (

    Registration_Id INT UNSIGNED AUTO_INCREMENT PRIMARY KEY,

    Event_Id INT UNSIGNED NOT NULL,

    Attendee_Id INT UNSIGNED NOT NULL,

    Registration_Date DATE NOT NULL,

    Registration_Amount DECIMAL(10, 2) NOT NULL,

    FOREIGN KEY (Event_Id) REFERENCES Events(Event_Id) ON DELETE CASCADE,

    FOREIGN KEY (Attendee_Id) REFERENCES Attendees(Attendee_Id) ON DELETE
CASCADE

);

select * from Registrations;
```

3. Data Creation

a. Inserting sample data for Events

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

VALUES

('Music Concert', '2024-12-10', 'City Arena', 'An exciting evening of live music and
performances'),

('Tech Conference', '2024-11-15', 'Tech Hub', 'A conference on the latest trends in technology'),

('Food Festival', '2024-11-20', 'Central Park', 'A festival celebrating local and international
cuisines');
```

b. Inserting sample data for Attendees

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

VALUES

('Sucharita', '1234567890', 'sucharita@example.com', 'Bengaluru'),

('Madhuri', '9876543210', 'madhuri@example.com', 'Pune'),

('Samrath', '5556667777', 'samrath@example.com', 'Hyderabad');
```

Explanation:-

- Sucharita registered for Music Concert
- Madhuri registered for Tech Conference
- Samrath registered for Food Festival

c. Inserting sample data for Registrations

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

VALUES

(1, 1, '2024-12-01', 150.00),

(2, 2, '2024-11-10', 200.00),

(3, 3, '2024-11-18', 300.00);

4. Manage Event Details

a) **Inserting a New Event**

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

VALUES

('Fashion Show', '2024-12-05', 'Ramp Gallary', 'A display of modern Fashion Jewellery and Dresses');

b) **Updating an Event's Information**

UPDATE Events

SET Event_Location = 'Grand Hall', Event_Description = 'Updated event details'

WHERE Event_Id = 1;

c) **Deleting an Event**

DELETE FROM Events

WHERE Event_Id = 3;

5. Manage Track Attendees & Handle Events

a) **Inserting a New Attendee**

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

VALUES

('Shankar', '7978699431', 'Shankar@example.com', 'Mumbai');

b) **Registering an Attendee for an Event**

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

VALUES

(1, 4, '2024-12-01', 150.00); -- Register Shankar for Music Concert

6. Develop Queries to Retrieve Event Information and Attendance Statistics

a) **Retrieve All Event Information**

SELECT * FROM Events;

b) **Retrieve List of Attendees for a Specific Event**

To generate attendee list for a specific Event for ex:- Tech Conference

SELECT Attendees.Attendee_Name, Attendees.Attendee_Email, Registrations.Registration_Date

FROM Attendees

JOIN Registrations ON Attendees.Attendee_Id = Registrations.Attendee_Id

JOIN Events ON Registrations.Event_Id = Events.Event_Id

WHERE Events.Event_Name = 'Tech Conference';

c) To generate attendee lists

SELECT a.Attendee_Name, a.Attendee_Email, e.Event_Name

FROM Attendees a

JOIN Registrations r ON a.Attendee_Id = r.Attendee_Id

JOIN Events e ON r.Event_Id = e.Event_Id;

d) To calculate event attendance statistics

SELECT e.Event_Name, COUNT(r.Registration_Id) AS Total_Attendees, SUM(r.Registration_Amount) AS Total_Revenue

FROM Events e

LEFT JOIN Registrations r ON e.Event_Id = r.Event_Id

GROUP BY e.Event_Name;