

EXPERIMENT 23

CASE SCENARIO: MYSQL QUERIES IMPLEMENTATION FOR TRAIN TICKET RESERVATION SYSTEM TO RECEIVE TICKETS THROUGH SOCIAL NETWORK

```
mysql> CREATE DATABASE IF NOT EXISTS TrainTicketSystem;
Query OK, 1 row affected (0.04 sec)

mysql> USE TrainTicketSystem;
Database changed
mysql> CREATE TABLE IF NOT EXISTS Passengers (
    ->     PassengerID INT NOT NULL PRIMARY KEY,
    ->     Name VARCHAR(50) NOT NULL,
    ->     Email VARCHAR(100) UNIQUE,
    ->     Mobile VARCHAR(15)
    -> );
Query OK, 0 rows affected (0.10 sec)

mysql> CREATE TABLE IF NOT EXISTS Trains (
    ->     TrainID INT NOT NULL PRIMARY KEY,
    ->     TrainName VARCHAR(50) NOT NULL,
    ->     Source VARCHAR(50),
    ->     Destination VARCHAR(50),
    ->     TotalSeats INT
    -> );
Query OK, 0 rows affected (0.07 sec)

mysql> CREATE TABLE IF NOT EXISTS Tickets (
    ->     TicketID INT NOT NULL PRIMARY KEY,
    ->     PassengerID INT,
    ->     TrainID INT,
    ->     SeatNo INT,
    ->     BookingDate DATE,
    ->     SocialNetwork VARCHAR(50),
    ->     FOREIGN KEY (PassengerID) REFERENCES Passengers(PassengerID),
    ->     FOREIGN KEY (TrainID) REFERENCES Trains(TrainID)
    -> );
Query OK, 0 rows affected (0.12 sec)
```

```
mysql> INSERT INTO Passengers (PassengerID, Name, Email, Mobile)
-> VALUES
-> (1, 'Divya', 'divya@gmail.com', '9876543210'),
-> (2, 'Rahul', 'rahul@gmail.com', '9876543211');
Query OK, 2 rows affected (0.05 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> INSERT INTO Trains (TrainID, TrainName, Source, Destination, TotalSeats)
-> VALUES
-> (1, 'ExpressLine', 'Chennai', 'Bangalore', 100),
-> (2, 'CityRide', 'Chennai', 'Coimbatore', 80);
Query OK, 2 rows affected (0.04 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> INSERT INTO Tickets (TicketID, PassengerID, TrainID, SeatNo, BookingDate, SocialNetwork)
-> VALUES
-> (1, 1, 1, 5, '2025-09-27', 'Facebook'),
-> (2, 2, 2, 10, '2025-09-27', 'WhatsApp');
Query OK, 2 rows affected (0.05 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> SELECT t.TicketID, p.Name, tr.TrainName, t.SeatNo, t.BookingDate, t.SocialNetwork
-> FROM Tickets t
-> JOIN Passengers p ON t.PassengerID = p.PassengerID
-> JOIN Trains tr ON t.TrainID = tr.TrainID;
```

TicketID	Name	TrainName	SeatNo	BookingDate	SocialNetwork
1	Divya	ExpressLine	5	2025-09-27	Facebook
2	Rahul	CityRide	10	2025-09-27	WhatsApp

```
2 rows in set (0.00 sec)

mysql> SELECT * FROM Tickets WHERE SocialNetwork = 'WhatsApp';
```

```
mysql> SELECT * FROM Tickets WHERE SocialNetwork = 'WhatsApp';
```

TicketID	PassengerID	TrainID	SeatNo	BookingDate	SocialNetwork
2	2	2	10	2025-09-27	WhatsApp

```
1 row in set (0.00 sec)

mysql> UPDATE Tickets
-> SET SeatNo = 6
-> WHERE TicketID = 1;
Query OK, 1 row affected (0.04 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> DELETE FROM Tickets
-> WHERE TicketID = 2;
Query OK, 1 row affected (0.04 sec)
```