## **EXPERIMENT 25**

## CASE SCENARIO: MYSQL QUERIES IMPLEMENTATION FOR QR ENABLED AUTOMATIC BUS TICKET BOOKING SYSTEM

```
mysql> USE BusBookingSystem;
Database changed
mysql> CREATE TABLE IF NOT EXISTS Users (
     -> UserID INT NOT NULL PRIMARY KEY,
    -> Name VARCHAR(50) NOT NULL,
-> Email VARCHAR(100) NOT NULL UNIQUE,
-> Mobile VARCHAR(15)
     -> );
Query OK, 0 rows affected (0.06 sec)
mysql> CREATE TABLE IF NOT EXISTS Buses (
     -> BusID INT NOT NULL PRIMARY KEY,
    -> BusName VARCHAR(50) NOT NULL,
-> Source VARCHAR(50),
-> Destination VARCHAR(50),
-> TotalSeats INT
    -> );
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE TABLE IF NOT EXISTS Tickets (
             TicketID INT NOT NULL PRIMARY KEY,
           UserID INT,
BusID INT,
     ->
    -> SeatNo INT,
-> BookingDate DATE,
-> QRCode VARCHAR(255),
-> FOREIGN KEY (UserID) REFERENCES Users(UserID),
-> FOREIGN KEY (BusID) REFERENCES D
    ->
             FOREIGN KEY (BusID) REFERENCES Buses(BusID)
     -> );
Query OK, 0 rows affected (0.06 sec)
mysql> INSERT INTO Users (UserID, Name, Email, Mobile)
     -> VALUES
     -> (1, 'Divya', 'divya@gmail.com', '9876543210'),
```

```
-> (2, 'Rahul', 'rahul@gmail.com', '9876543211');
Query OK, 2 rows affected (0.04 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> INSERT INTO Buses (BusID, BusName, Source, Destination, TotalSeats)
    -> VALUES
    -> (1, 'ExpressLine', 'Chennai', 'Bangalore', 40), -> (2, 'CityRide', 'Chennai', 'Coimbatore', 30);
Query OK, 2 rows affected (0.05 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> INSERT INTO Tickets (TicketID, UserID, BusID, SeatNo, BookingDate, QRCode)
    -> VALUES
    -> (1, 1, 1, 5, '2025-09-27', 'QR123ABC'), -> (2, 2, 2, 10, '2025-09-27', 'QR456DEF');
Query OK, 2 rows affected (0.03 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> SELECT t.TicketID, u.Name, b.BusName, t.SeatNo, t.BookingDate, t.QRCode
    -> FROM Tickets t
    -> JOIN Users u ON t.UserID = u.UserID
    -> JOIN Buses b ON t.BusID = b.BusID;
| TicketID | Name
                       BusName
                                     | SeatNo | BookingDate |
                                                                 QRCode
          1 | Divya | ExpressLine
                                            5
                                                 2025-09-27
                                                                 OR123ABC
          2 | Rahul | CityRide
                                                                 OR456DEF
                                           10 I
                                                 2025-09-27
2 rows in set (0.00 sec)
mysql> SELECT * FROM Tickets WHERE UserID = 1;
| TicketID | UserID |
                        BusID
                                 SeatNo
                                           BookingDate |
                                                           QRCode
          1 |
                             1 |
                                       5 | 2025-09-27
                                                         QR123ABC
                    1 |
1 row in set (0.00 sec)
mysql> UPDATE Tickets
    -> SET SeatNo = 6
    -> WHERE TicketID = 1;
```

```
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> DELETE FROM Tickets WHERE TicketID = 2;
Query OK, 1 row affected (0.04 sec)
```