**CASE STUDY- VALUES INSERTION:**

mysql> USE TransportManagement;

Database changed

mysql> INSERT INTO Vehicles (Model, Capacity, Type, Status) VALUES ('Tata Ace', 750.00, 'Truck', 'Available'),('Mahindra Bolero Pickup', 1200.00, 'Truck', 'On Trip'),('Ashok Leyland Dost', 1250.00, 'Truck', 'Available'),('Tata 407', 2500.00, 'Van', 'Maintenance'),('Eicher Pro 3015', 5000.00, 'Bus', 'Available'),

-> ('BharatBenz 1217', 8500.00, 'Truck', 'On Trip'),('Swaraj Mazda', 3000.00, 'Van', 'Under Repair');

Query OK, 7 rows affected (0.08 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> **select \* from vehicles;**

+-----------+------------------------+----------+-------+--------------+

| VehicleID | Model | Capacity | Type | Status |

+-----------+------------------------+----------+-------+--------------+

| 1 | Tata Ace | 750.00 | Truck | Available |

| 2 | Mahindra Bolero Pickup | 1200.00 | Truck | On Trip |

| 3 | Ashok Leyland Dost | 1250.00 | Truck | Available |

| 4 | Tata 407 | 2500.00 | Van | Maintenance |

| 5 | Eicher Pro 3015 | 5000.00 | Bus | Available |

| 6 | BharatBenz 1217 | 8500.00 | Truck | On Trip |

| 7 | Swaraj Mazda | 3000.00 | Van | Under Repair |

+-----------+------------------------+----------+-------+--------------+

7 rows in set (0.00 sec)

mysql> INSERT INTO Routes (StartDestination, EndDestination, Distance) VALUES ('Chennai', 'Bangalore', 350.00),('Mumbai', 'Pune', 150.00),('Delhi', 'Agra', 233.00), ('Hyderabad', 'Visakhapatnam', 620.00),('Kolkata', 'Bhubaneswar', 440.00),('Jaipur', 'Udaipur', 395.00),('Ahmedabad', 'Surat', 265.00);

Query OK, 7 rows affected (0.06 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> **select \* from routes;**

+---------+------------------+----------------+----------+

| RouteID | StartDestination | EndDestination | Distance |

+---------+------------------+----------------+----------+

| 1 | Chennai | Bangalore | 350.00 |

| 2 | Mumbai | Pune | 150.00 |

| 3 | Delhi | Agra | 233.00 |

| 4 | Hyderabad | Visakhapatnam | 620.00 |

| 5 | Kolkata | Bhubaneswar | 440.00 |

| 6 | Jaipur | Udaipur | 395.00 |

| 7 | Ahmedabad | Surat | 265.00 |

+---------+------------------+----------------+----------+

7 rows in set (0.00 sec)

mysql>

mysql> INSERT INTO Trips (VehicleID, RouteID, DepartureDate, ArrivalDate, Status, TripType, MaxPassengers) VALUES

-> (1, 1, '2025-04-01 08:00:00', '2025-04-01 14:00:00', 'Scheduled', 'Freight', NULL),

-> (2, 2, '2025-04-02 09:00:00', '2025-04-02 12:00:00', 'In Progress', 'Passenger', 10),

-> (3, 3, '2025-04-03 07:00:00', '2025-04-03 10:00:00', 'Completed', 'Passenger', 15),

-> (4, 4, '2025-04-04 06:00:00', '2025-04-04 18:00:00', 'Cancelled', 'Freight', NULL),

-> (5, 5, '2025-04-05 05:30:00', '2025-04-05 15:30:00', 'Scheduled', 'Freight', NULL),

-> (6, 6, '2025-04-06 09:45:00', '2025-04-06 17:30:00', 'Completed', 'Passenger', 12),

-> (7, 7, '2025-04-07 07:15:00', '2025-04-07 12:45:00', 'Scheduled', 'Freight', NULL);

Query OK, 7 rows affected (0.06 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> **select \* from trips;**

+--------+-----------+---------+---------------------+---------------------+-------------+-----------+---------------+

| TripID | VehicleID | RouteID | DepartureDate | ArrivalDate | Status | TripType | MaxPassengers |

+--------+-----------+---------+---------------------+---------------------+-------------+-----------+---------------+

| 1 | 1 | 1 | 2025-04-01 08:00:00 | 2025-04-01 14:00:00 | Scheduled | Freight | NULL |

| 2 | 2 | 2 | 2025-04-02 09:00:00 | 2025-04-02 12:00:00 | In Progress | Passenger | 10 |

| 3 | 3 | 3 | 2025-04-03 07:00:00 | 2025-04-03 10:00:00 | Completed | Passenger | 15 |

| 4 | 4 | 4 | 2025-04-04 06:00:00 | 2025-04-04 18:00:00 | Cancelled | Freight | NULL |

| 5 | 5 | 5 | 2025-04-05 05:30:00 | 2025-04-05 15:30:00 | Scheduled | Freight | NULL |

| 6 | 6 | 6 | 2025-04-06 09:45:00 | 2025-04-06 17:30:00 | Completed | Passenger | 12 |

| 7 | 7 | 7 | 2025-04-07 07:15:00 | 2025-04-07 12:45:00 | Scheduled | Freight | NULL |

+--------+-----------+---------+---------------------+---------------------+-------------+-----------+---------------+

7 rows in set (0.00 sec)

mysql> INSERT INTO Passengers (FirstName, Gender, Age, Email, PhoneNumber) VALUES

-> ('Rajesh', 'Male', 30, 'rajesh30@gmail.com', '9876543210'),

-> ('Priya', 'Female', 25, 'priya25@yahoo.com', '9876543211'),

-> ('Amit', 'Male', 40, 'amit40@outlook.com', '9876543212'),

-> ('Sneha', 'Female', 28, 'sneha28@gmail.com', '9876543213'),

-> ('Vikram', 'Male', 35, 'vikram35@hotmail.com', '9876543214'),

-> ('Kiran', 'Female', 22, 'kiran22@yahoo.com', '9876543215'),

-> ('Sunil', 'Male', 45, 'sunil45@gmail.com', '9876543216');

Query OK, 7 rows affected (0.03 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> select \* from passengers;

+-------------+-----------+--------+------+----------------------+-------------+

| PassengerID | FirstName | Gender | Age | Email | PhoneNumber |

+-------------+-----------+--------+------+----------------------+-------------+

| 1 | Rajesh | Male | 30 | rajesh30@gmail.com | 9876543210 |

| 2 | Priya | Female | 25 | priya25@yahoo.com | 9876543211 |

| 3 | Amit | Male | 40 | amit40@outlook.com | 9876543212 |

| 4 | Sneha | Female | 28 | sneha28@gmail.com | 9876543213 |

| 5 | Vikram | Male | 35 | vikram35@hotmail.com | 9876543214 |

| 6 | Kiran | Female | 22 | kiran22@yahoo.com | 9876543215 |

| 7 | Sunil | Male | 45 | sunil45@gmail.com | 9876543216 |

+-------------+-----------+--------+------+----------------------+-------------+

7 rows in set (0.00 sec)

mysql> INSERT INTO Bookings (TripID, PassengerID, BookingDate, Status) VALUES

-> (2, 1, '2025-03-25 12:00:00', 'Confirmed'),

-> (2, 2, '2025-03-26 14:30:00', 'Confirmed'),

-> (3, 3, '2025-03-27 10:00:00', 'Completed'),

-> (3, 4, '2025-03-27 11:15:00', 'Cancelled'),

-> (3, 5, '2025-03-27 12:45:00', 'Confirmed'),

-> (6, 6, '2025-03-28 09:30:00', 'Confirmed'),

-> (6, 7, '2025-03-28 10:15:00', 'Cancelled');

Query OK, 7 rows affected (0.06 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> **select \* from Bookings;**

+-----------+--------+-------------+---------------------+-----------+

| BookingID | TripID | PassengerID | BookingDate | Status |

+-----------+--------+-------------+---------------------+-----------+

| 1 | 2 | 1 | 2025-03-25 12:00:00 | Confirmed |

| 2 | 2 | 2 | 2025-03-26 14:30:00 | Confirmed |

| 3 | 3 | 3 | 2025-03-27 10:00:00 | Completed |

| 4 | 3 | 4 | 2025-03-27 11:15:00 | Cancelled |

| 5 | 3 | 5 | 2025-03-27 12:45:00 | Confirmed |

| 6 | 6 | 6 | 2025-03-28 09:30:00 | Confirmed |

| 7 | 6 | 7 | 2025-03-28 10:15:00 | Cancelled |

+-----------+--------+-------------+---------------------+-----------+

7 rows in set (0.00 sec)

mysql> INSERT INTO drivers (DriverID, firstname, lastname, licensenumber, status) VALUES (101, 'Karthik', 'Subramanian', 'TN1001', 'Available');

Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO Drivers (DriverID, firstname, lastname, licensenumber, status) VALUES (102, 'Arun', 'Velmurugan', 'TN1002', 'on trip');

Query OK, 1 row affected (0.04 sec)

mysql> INSERT INTO Drivers (DriverID, firstname, lastname, licensenumber, status) VALUES (103, 'Reshma', 'Sundaram', 'TN1003', 'Available')

-> ;

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Drivers (DriverID, firstname, lastname, licensenumber, status) VALUES(104, 'Muthukumar', 'Raman', 'TN1004', 'under maintenance');

Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO Drivers (DriverID, firstname, lastname, licensenumber, status) VALUES(105, 'Ganesh', 'Baskaran', 'TN1005', 'available');

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO Drivers (DriverID, firstname, lastname, licensenumber, status) VALUES(106, 'Rajesh', 'Mohan', 'TN1006', 'on trip');

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO Drivers (DriverID, firstname, lastname, licensenumber, status) VALUES(107, 'Deepa', 'Vijayakumar', 'TN1007', 'Available');

Query OK, 1 row affected (0.04 sec)

mysql> **select \* from drivers;**

+----------+------------+-------------+---------------+-------------------+

| DriverID | FirstName | LastName | LicenseNumber | Status |

+----------+------------+-------------+---------------+-------------------+

| 101 | Karthik | Subramanian | TN1001 | Available |

| 102 | Arun | Velmurugan | TN1002 | on trip |

| 103 | Reshma | Sundaram | TN1003 | Available |

| 104 | Muthukumar | Raman | TN1004 | under maintenance |

| 105 | Ganesh | Baskaran | TN1005 | available |

| 106 | Rajesh | Mohan | TN1006 | on trip |

| 107 | Deepa | Vijayakumar | TN1007 | Available |

+----------+------------+-------------+---------------+-------------------+

7 rows in set (0.00 sec)

mysql> INSERT INTO driverallocation (AllocationID, TripID, DriverID) VALUES(1, 1, 101);

Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO driverallocation (AllocationID, TripID, DriverID) VALUES(2, 2, 102);

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO driverallocation (AllocationID, TripID, DriverID) VALUES(3, 3, 103);

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO driverallocation (AllocationID, TripID, DriverID) VALUES(4, 5, 104);

Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO driverallocation (AllocationID, TripID, DriverID) VALUES(5, 6, 105);

Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO driverallocation (AllocationID, TripID, DriverID) VALUES(6, 6, 106);

Query OK, 1 row affected (0.04 sec)

mysql> INSERT INTO driverallocation (AllocationID, TripID, DriverID) VALUES(7, 7, 107);

Query OK, 1 row affected (0.01 sec)

mysql> **select \* from driverallocation;**

+--------------+--------+----------+

| AllocationID | TripID | DriverID |

+--------------+--------+----------+

| 1 | 1 | 101 |

| 2 | 2 | 102 |

| 3 | 3 | 103 |

| 4 | 5 | 104 |

| 5 | 6 | 105 |

| 6 | 6 | 106 |

| 7 | 7 | 107 |

+--------------+--------+----------+

7 rows in set (0.00 sec)