

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> use project;
```

Database changed

```
mysql> CREATE DATABASE airline_reservation;
```

Query OK, 1 row affected (0.06 sec)

```
mysql> USE airline_reservation;
```

Database changed

```
mysql>
```

```
mysql> CREATE TABLE Flights (
```

```
    -> FlightID INT PRIMARY KEY,
```

```
    -> FlightNumber VARCHAR(10),
```

```
    -> Origin VARCHAR(50),
```

```
    -> Destination VARCHAR(50),
```

```
    -> DepartureTime DATETIME,
```

```
    -> ArrivalTime DATETIME
```

```
    -> );
```

Query OK, 0 rows affected (0.07 sec)

```
mysql>
```

```
mysql> CREATE TABLE Customers (
```

```
    -> CustomerID INT PRIMARY KEY,
```

```
    -> Name VARCHAR(100),
```

```
    -> Email VARCHAR(100),
```

```
    -> Phone VARCHAR(15)
```

```
    -> );
```

Query OK, 0 rows affected (0.03 sec)

```
mysql>
```

```
mysql> CREATE TABLE Bookings (
```

```
    -> BookingID INT PRIMARY KEY,
```

```
    -> CustomerID INT,
```

```
    -> FlightID INT,
```

```
    -> BookingDate DATE,
```

```
    -> Status VARCHAR(20) DEFAULT 'Confirmed',
```

```
    -> FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID),
```

```
    -> FOREIGN KEY (FlightID) REFERENCES Flights(FlightID)
```

```
    -> );
```

Query OK, 0 rows affected (0.09 sec)



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```
MySQL 8.0 Command Line Cli  x  +  v

mysql>
mysql> CREATE TABLE Seats (
->     SeatID INT PRIMARY KEY,
->     FlightID INT,
->     SeatNumber VARCHAR(5),
->     IsBooked BOOLEAN DEFAULT FALSE,
->     FOREIGN KEY (FlightID) REFERENCES Flights(FlightID)
-> );
Query OK, 0 rows affected (0.07 sec)

mysql> INSERT INTO Flights VALUES
-> (1, 'AI101', 'Chennai', 'Delhi', '2025-07-15 09:00:00', '2025-07-15 11:30:00'),
-> (2, 'AI202', 'Mumbai', 'Bangalore', '2025-07-16 14:00:00', '2025-07-16 16:00:00');
Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO Customers VALUES
-> (1, 'Ravi Kumar', 'ravi@gmail.com', '9876543210'),
-> (2, 'Aarti Singh', 'aarti@yahoo.com', '8765432109');
Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO Bookings VALUES
-> (101, 1, 1, '2025-07-01', 'Confirmed'),
-> (102, 2, 2, '2025-07-05', 'Confirmed');
Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO Seats VALUES
-> (1, 1, '1A', TRUE),
-> (2, 1, '1B', FALSE),
-> (3, 2, '2A', TRUE),
-> (4, 2, '2B', FALSE);
Query OK, 4 rows affected (0.01 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from Flights;
```



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Records: 4 Duplicates: 0 Warnings: 0

mysql&gt; select \* from Flights;

FlightID	FlightNumber	Origin	Destination	DepartureTime	ArrivalTime
1	AI101	Chennai	Delhi	2025-07-15 09:00:00	2025-07-15 11:30:00
2	AI202	Mumbai	Bangalore	2025-07-16 14:00:00	2025-07-16 16:00:00

2 rows in set (0.00 sec)

mysql&gt; select \* from Customer;

ERROR 1146 (42S02): Table 'airline\_reservation.customer' doesn't exist

mysql&gt; select \* from Customers;

CustomerID	Name	Email	Phone
1	Ravi Kumar	ravi@gmail.com	9876543210
2	Aarti Singh	aarti@yahoo.com	8765432109

2 rows in set (0.00 sec)

mysql&gt; select \* from Bookings;

BookingID	CustomerID	FlightID	BookingDate	Status
101	1	1	2025-07-01	Confirmed
102	2	2	2025-07-05	Confirmed

2 rows in set (0.00 sec)

mysql&gt; select \* from Seats;

SeatID	FlightID	SeatNumber	IsBooked
1	1	1A	1
2	1	1B	0
3	2	2A	1
4	2	2B	0

4 rows in set (0.00 sec)



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4 rows in set (0.00 sec)

mysql> -- 1. Available seats for a flight

mysql> SELECT SeatNumber FROM Seats  
-> WHERE FlightID = 1 AND IsBooked = FALSE;

SeatNumber
1B

1 row in set (0.01 sec)

mysql>

mysql> -- 2. Flight search from origin to destination

mysql> SELECT \* FROM Flights  
-> WHERE Origin = 'Chennai' AND Destination = 'Delhi';

FlightID	FlightNumber	Origin	Destination	DepartureTime	ArrivalTime
1	AI101	Chennai	Delhi	2025-07-15 09:00:00	2025-07-15 11:30:00

1 row in set (0.00 sec)

mysql>

mysql> -- 3. Booking Summary Report

mysql> SELECT b.BookingID, c.Name, f.FlightNumber, b.BookingDate, b.Status  
-> FROM Bookings b  
-> JOIN Customers c ON b.CustomerID = c.CustomerID  
-> JOIN Flights f ON b.FlightID = f.FlightID;

BookingID	Name	FlightNumber	BookingDate	Status
101	Ravi Kumar	AI101	2025-07-01	Confirmed
102	Aarti Singh	AI202	2025-07-05	Confirmed

2 rows in set (0.01 sec)

mysql> DELIMITER //

mysql>

mysql> CREATE TRIGGER after\_booking\_cancel  
-> AFTER UPDATE ON Bookings



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