# BUS BOOKING MANAGEMENT SYSTEM

## ABSTRACT:

Travel industry is evolving day to day. As the industry evolves the need to digitalize all the transactions becomes need of the hour. This project which is implemented on SQL that helps to manage bus bookings. This Bus Booking System is an easily deployable, integrated end-to-end system starting from searching bus routes to book them.

## OBJECTIVE :

1. This will make it easy for the company to know the accurate monthly income by knowing about bookings made by customer.
2. We can get accurate information about the number of passengers travelling and their details.
3. This will make it easy to track the record of buses and people travelling in the bus.

## STRUCTURE OF TABLES

BOOKING  : This table contains all the details of bookings made by customer and the number of seat and types of seat booked by them.

```
MariaDB [project]> desc booking;
+-----------------+-------------+------+-----+---------+----------------+
| Field           | Type        | Null | Key | Default | Extra          |
+-----------------+-------------+------+-----+---------+----------------+
| booking_id      | int(11)     | NO   | PRI | NULL    | auto_increment |
| Number_of_seats | int(11)     | NO   |     | NULL    |                |
| fare_amount     | float       | NO   |     | NULL    |                |
| booking_status  | varchar(30) | NO   |     | NULL    |                |
| SEAT_TYPE       | varchar(20) | YES  |     | NULL    |                |
+-----------------+-------------+------+-----+---------+----------------+
5 rows in set (0.016 sec)

MariaDB [project]>
```

Customer details : this table contains all the details related to the customer who had booked seats in the bus such as their name, contact number, etc.

```
MariaDB [project]> desc customer_details;
+------------------+-------------+------+-----+---------+----------------+
| Field            | Type        | Null | Key | Default | Extra          |
+------------------+-------------+------+-----+---------+----------------+
| customer_id      | int(11)     | NO   | PRI | NULL    | auto_increment |
| customer_name    | varchar(50) | NO   |     | NULL    |                |
| customer_contact | varchar(15) | NO   |     | NULL    |                |
| customer_email   | varchar(30) | YES  |     | NULL    |                |
| booking_id       | int(11)     | NO   | MUL | NULL    |                |
+------------------+-------------+------+-----+---------+----------------+
5 rows in set (0.017 sec)

MariaDB [project]>
```

Payment Details : this table gives us the information about the payment made by the customers to make the booking and the mode of payment.

```
MariaDB [project]> desc payment_details;
+-----------------+-------------+------+-----+---------+-------+
| Field           | Type        | Null | Key | Default | Extra |
+-----------------+-------------+------+-----+---------+-------+
| payment_id      | int(11)     | NO   | PRI | NULL    |       |
| booking_id      | int(11)     | NO   | MUL | NULL    |       |
| amount_paid     | float       | NO   |     | NULL    |       |
| mode_of_payment | varchar(20) | YES  |     | NULL    |       |
+-----------------+-------------+------+-----+---------+-------+
4 rows in set (0.014 sec)

MariaDB [project]>
```

Journey Details : this table contains details about the journey of the passengers that is  their starting point of journey, destination ,etc.

```
MariaDB [project]> desc journey_details;
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| PNR_No         | int(11)     | NO   | PRI | NULL    |       |
| driver_name    | varchar(30) | NO   |     | NULL    |       |
| starting_point | varchar(30) | NO   |     | NULL    |       |
| destination    | varchar(30) | NO   |     | NULL    |       |
| fare_amount    | float       | NO   |     | NULL    |       |
| booking_id     | int(11)     | NO   | MUL | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
6 rows in set (0.014 sec)

MariaDB [project]>
```

# CONTENTS OF THE TABLES

## BOOKINGS :

```
MariaDB [project]> select * from booking;
+------------+-----------------+-------------+----------------+-----------+
| booking_id | Number_of_seats | fare_amount | booking_status | SEAT_TYPE |
+------------+-----------------+-------------+----------------+-----------+
|          1 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          2 |               1 |         500 | CONFIRMED      | SLEEPER   |
|          3 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          4 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          5 |               3 |        1500 | CONFIRMED      | SLEEPER   |
|          6 |               2 |        1000 | CONFIRMED      | SEATER    |
|          7 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          8 |               1 |         500 | CONFIRMED      | SEATER    |
|          9 |               2 |         900 | CONFIRMED      | SEATER    |
|         10 |               2 |         900 | CONFIRMED      | SEATER    |
|         11 |               3 |        1500 | CONFIRMED      | SLEEPER   |
|         12 |               2 |        1000 | CONFIRMED      | SEATER    |
|         13 |               4 |        1800 | CONFIRMED      | SEATER    |
|         14 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         15 |               1 |         450 | CONFIRMED      | SEATER    |
|         16 |               6 |        3000 | CONFIRMED      | SLEEPER   |
|         17 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         18 |               3 |        1500 | CONFIRMED      | SLEEPER   |
|         19 |               1 |         500 | CONFIRMED      | SLEEPER   |
|         20 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         21 |               2 |         900 | CONFIRMED      | SEATER    |
|         22 |               2 |         900 | CONFIRMED      | SEATER    |
+------------+-----------------+-------------+----------------+-----------+
22 rows in set (0.001 sec)

MariaDB [project]> 
```

## CUSTOMER_DETAILS :

```
MariaDB [project]> select * from customer_details;
+-------------+---------------+------------------+-------------------------+------------+
| customer_id | customer_name | customer_contact | customer_email          | booking_id |
+-------------+---------------+------------------+-------------------------+------------+
|         101 | SUMIT         | 987654321        | sumit1103@gmail.com     |          1 |
|         102 | SHUBHAM       | 987765432        | shubham2922@gmail.com   |          2 |
|         103 | SAKTHES       | 987765532        | sakthes06@gmail.com     |          3 |
|         104 | ANEESH        | 944765532        | aneesh16@gmail.com      |          4 |
|         105 | DEVESH        | 944798742        | devesh04@gmail.com      |          5 |
|         106 | RAJESH        | 944766742        | rajesh54@gmail.com      |          6 |
|         107 | PRIYA         | 944766542        | priya14@gmail.com       |          7 |
|         108 | KHUSHI        | 944766942        | khushi14@gmail.com      |          8 |
|         109 | SHIVA         | 944700942        | shiva11@gmail.com       |          9 |
|         110 | DEEPIKA       | 944785942        | deepika04@gmail.com     |         10 |
|         111 | DIVITH        | 944780242        | divith5@gmail.com       |         11 |
|         112 | SANJAY        | 944780742        | sanji33@gmail.com       |         12 |
|         113 | VIGNESH       | 944580742        | vignesh13@gmail.com     |         13 |
|         114 | OM            | 944222742        | om83@gmail.com          |         14 |
|         115 | SOHAM         | 944220942        | soham73@gmail.com       |         15 |
|         116 | ROHAN         | 944221542        | rohan15@gmail.com       |         16 |
|         117 | SAMRUDDHI     | 944221742        | sam17@gmail.com         |         17 |
|         118 | DIVYA         | 944221715        | divya15@gmail.com       |         18 |
|         119 | NIMESH        | 944279715        | nimesh27@gmail.com      |         19 |
|         120 | RAHUL         | 944274715        | rahul88@gmail.com       |         20 |
|         121 | HARSHU        | 942174715        | harshu21@gmail.com      |         21 |
|         122 | HIMANSHU      | 942172315        | himanshu23@gmail.com    |         22 |
+-------------+---------------+------------------+-------------------------+------------+
22 rows in set (0.001 sec)

MariaDB [project]>
```

## PAYMENT DETAILS :

```
MariaDB [project]> select * from payment_details;
+------------+------------+-------------+-----------------+
| payment_id | booking_id | amount_paid | mode_of_payment |
+------------+------------+-------------+-----------------+
|       1001 |          1 |        1000 | CASH            |
|       1002 |          2 |         500 | CASH            |
|       1003 |          3 |        1000 | CASH            |
|       1004 |          4 |        1000 | UPI             |
|       1005 |          5 |        1500 | CASH            |
|       1006 |          6 |        1000 | CASH            |
|       1007 |          7 |        1000 | UPI             |
|       1008 |          8 |         500 | UPI             |
|       1009 |          9 |         900 | CASH            |
|       1010 |         10 |         900 | CASH            |
|       1011 |         11 |        1500 | CASH            |
|       1012 |         12 |        1000 | CASH            |
|       1013 |         13 |        1800 | UPI             |
|       1014 |         14 |        1000 | CASH            |
|       1015 |         15 |         450 | CASH            |
|       1016 |         16 |        3000 | UPI             |
|       1017 |         17 |        1000 | CASH            |
|       1018 |         18 |        1500 | CASH            |
|       1019 |         19 |         500 | CASH            |
|       1020 |         20 |        1000 | CASH            |
|       1021 |         21 |         900 | CASH            |
|       1022 |         22 |         900 | UPI             |
+------------+------------+-------------+-----------------+
22 rows in set (0.001 sec)

MariaDB [project]>
```

## JOURNEY DETAILS :

```
MariaDB [project]> select * from journey_details;
+--------+-------------+----------------+-------------+-------------+------------+
| PNR_No | driver_name | starting_point | destination | fare_amount | booking_id |
+--------+-------------+----------------+-------------+-------------+------------+
|   5001 | RAGHU       | MUMBAI         | PUNE        |        1000 |          1 |
|   5002 | GOKUL       | CHENNAI        | COIMBATORE  |         500 |          2 |
|   5003 | VIPUL       | PALAKKAD       | BANGLORE    |        1000 |          3 |
|   5004 | DIVAKAR     | TIRUNELVELI    | PALANI      |        1000 |          4 |
|   5005 | DEEPAK      | TUTICORIN      | KANYAKUMARI |        1500 |          5 |
|   5006 | SANJAY      | HYDERABAD      | VIJAYAWADA  |        1000 |          6 |
|   5007 | AMIR        | JAIPUR         | DELHI       |        1000 |          7 |
|   5008 | RAGHU       | MUMBAI         | PUNE        |         500 |          8 |
|   5009 | GOKUL       | CHENNAI        | COIMBATORE  |         900 |          9 |
|   5010 | VIPUL       | PALAKKAD       | BANGLORE    |         900 |         10 |
|   5011 | DIVAKAR     | TIRUNELVELI    | PALANI      |        1500 |         11 |
|   5012 | DEEPAK      | TUTICORIN      | KANYAKUMARI |        1000 |         12 |
|   5013 | SANJAY      | HYDERABAD      | VIJAYAWADA  |        1800 |         13 |
|   5014 | AMIR        | JAIPUR         | DELHI       |        1000 |         14 |
|   5015 | RAGHU       | MUMBAI         | PUNE        |         450 |         15 |
|   5016 | GOKUL       | CHENNAI        | COIMBATORE  |        3000 |         16 |
|   5017 | VIPUL       | PALAKKAD       | BANGLORE    |        1000 |         17 |
|   5018 | DIVAKAR     | TIRUNELVELI    | PALANI      |        1500 |         18 |
|   5019 | DEEPAK      | TUTICORIN      | KANYAKUMARI |         500 |         19 |
|   5020 | SANJAY      | HYDERABAD      | VIJAYAWADA  |        1000 |         20 |
|   5021 | AMIR        | JAIPUR         | DELHI       |         900 |         21 |
|   5022 | RAGHU       | MUMBAI         | PUNE        |         900 |         22 |
+--------+-------------+----------------+-------------+-------------+------------+
22 rows in set (0.001 sec)

MariaDB [project]>
```

-

# SUBQUERIES

ANS:-

select * from booking where number_of_seats = (select number_of_seats from booking where booking_id = 4);

```
MariaDB [project]> select * from booking where number_of_seats = (select number_of_seats from booking where booking_id = 4);
+------------+-----------------+-------------+----------------+-----------+
| booking_id | Number_of_seats | fare_amount | booking_status | SEAT_TYPE |
+------------+-----------------+-------------+----------------+-----------+
|          1 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          3 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          4 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          6 |               2 |        1000 | CONFIRMED      | SEATER    |
|          7 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          9 |               2 |         900 | CONFIRMED      | SEATER    |
|         10 |               2 |         900 | CONFIRMED      | SEATER    |
|         12 |               2 |        1000 | CONFIRMED      | SEATER    |
|         14 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         17 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         20 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         21 |               2 |         900 | CONFIRMED      | SEATER    |
|         22 |               2 |         900 | CONFIRMED      | SEATER    |
+------------+-----------------+-------------+----------------+-----------+
13 rows in set (0.001 sec)

MariaDB [project]>
```

2. Show Details of passengers whose seat type is same as booking id no.21.

ANS:-

select * from booking where seat_type = (select seat_type from booking where  booking_id = 21);

```
MariaDB [project]> select * from booking where seat_type = (select seat_type from booking where  booking_id = 21);
+------------+-----------------+-------------+----------------+-----------+
| booking_id | Number_of_seats | fare_amount | booking_status | SEAT_TYPE |
+------------+-----------------+-------------+----------------+-----------+
|          6 |               2 |        1000 | CONFIRMED      | SEATER    |
|          8 |               1 |         500 | CONFIRMED      | SEATER    |
|          9 |               2 |         900 | CONFIRMED      | SEATER    |
|         10 |               2 |         900 | CONFIRMED      | SEATER    |
|         12 |               2 |        1000 | CONFIRMED      | SEATER    |
|         13 |               4 |        1800 | CONFIRMED      | SEATER    |
|         15 |               1 |         450 | CONFIRMED      | SEATER    |
|         21 |               2 |         900 | CONFIRMED      | SEATER    |
|         22 |               2 |         900 | CONFIRMED      | SEATER    |
+------------+-----------------+-------------+----------------+-----------+
9 rows in set (0.012 sec)

MariaDB [project]>
```

Display booking id of passengers who has made payment same as payment id no 1016.

ANS:-

select * from payment_details where mode_of_payment = (select mode_of_payment from payment_details where payment_id = 1016);

```
MariaDB [project]> select * from payment_details where mode_of_payment = (select mode_of_payment from payment_details where payment_id = 1016);
+------------+------------+-------------+-----------------+
| payment_id | booking_id | amount_paid | mode_of_payment |
+------------+------------+-------------+-----------------+
|       1004 |          4 |        1000 | UPI             |
|       1007 |          7 |        1000 | UPI             |
|       1008 |          8 |         500 | UPI             |
|       1013 |         13 |        1800 | UPI             |
|       1016 |         16 |        3000 | UPI             |
|       1022 |         22 |         900 | UPI             |
+------------+------------+-------------+-----------------+
6 rows in set (0.001 sec)

MariaDB [project]> _
```

# VIEW

ANS:- create view v2 as select * from journey details;

```
MariaDB [project]> create view v2 as select * from journey_details;
Query OK, 0 rows affected (0.020 sec)

MariaDB [project]> select * from v2;
+--------+-------------+----------------+-------------+-------------+------------+
| PNR_No | driver_name | starting_point | destination | fare_amount | booking_id |
+--------+-------------+----------------+-------------+-------------+------------+
|   5001 | RAGHU       | MUMBAI         | PUNE        |        1000 |          1 |
|   5002 | GOKUL       | CHENNAI        | COIMBATORE  |         500 |          2 |
|   5003 | VIPUL       | PALAKKAD       | BANGLORE    |        1000 |          3 |
|   5004 | DIVAKAR     | TIRUNELVELI    | PALANI      |        1000 |          4 |
|   5005 | DEEPAK      | TUTICORIN      | KANYAKUMARI |        1500 |          5 |
|   5006 | SANJAY      | HYDERABAD      | VIJAYAWADA  |        1000 |          6 |
|   5007 | AMIR        | JAIPUR         | DELHI       |        1000 |          7 |
|   5008 | RAGHU       | MUMBAI         | PUNE        |         500 |          8 |
|   5009 | GOKUL       | CHENNAI        | COIMBATORE  |         900 |          9 |
|   5010 | VIPUL       | PALAKKAD       | BANGLORE    |         900 |         10 |
|   5011 | DIVAKAR     | TIRUNELVELI    | PALANI      |        1500 |         11 |
|   5012 | DEEPAK      | TUTICORIN      | KANYAKUMARI |        1000 |         12 |
|   5013 | SANJAY      | HYDERABAD      | VIJAYAWADA  |        1800 |         13 |
|   5014 | AMIR        | JAIPUR         | DELHI       |        1000 |         14 |
|   5015 | RAGHU       | MUMBAI         | PUNE        |         450 |         15 |
|   5016 | GOKUL       | CHENNAI        | COIMBATORE  |        3000 |         16 |
|   5017 | VIPUL       | PALAKKAD       | BANGLORE    |        1000 |         17 |
|   5018 | DIVAKAR     | TIRUNELVELI    | PALANI      |        1500 |         18 |
|   5019 | DEEPAK      | TUTICORIN      | KANYAKUMARI |         500 |         19 |
|   5020 | SANJAY      | HYDERABAD      | VIJAYAWADA  |        1000 |         20 |
|   5021 | AMIR        | JAIPUR         | DELHI       |         900 |         21 |
|   5022 | RAGHU       | MUMBAI         | PUNE        |         900 |         22 |
+--------+-------------+----------------+-------------+-------------+------------+
22 rows in set (0.014 sec)

MariaDB [project]>
```

ANS :-

create view v5 AS select journey_details.starting_point,journey_details.destination,booking.number_of_seats,booking.seat_type from journey_details,booking where journey_details.booking_id = booking.booking_id;

```
MariaDB [project]> create view v5 AS select journey_details.starting_point,journey_details.destination,booking.number_of_seats,booking.seat_type from journey_details,booking where journey_details.booking_id = booking.booking_id;
Query OK, 0 rows affected (0.015 sec)

MariaDB [project]> select * from v5;
+----------------+-------------+----------------+-----------+
| starting_point | destination | number_of_seats | seat_type |
+----------------+-------------+----------------+-----------+
| MUMBAI         | PUNE        |              2 | SLEEPER   |
| CHENNAI        | COIMBATORE  |              1 | SLEEPER   |
| PALAKKAD       | BANGLORE    |              2 | SLEEPER   |
| TIRUNELVELI    | PALANI      |              2 | SLEEPER   |
| TUTICORIN      | KANYAKUMARI |              3 | SLEEPER   |
| HYDERABAD      | VIJAYAWADA  |              2 | SEATER    |
| JAIPUR         | DELHI       |              2 | SLEEPER   |
| MUMBAI         | PUNE        |              1 | SEATER    |
| CHENNAI        | COIMBATORE  |              2 | SEATER    |
| PALAKKAD       | BANGLORE    |              2 | SEATER    |
| TIRUNELVELI    | PALANI      |              3 | SLEEPER   |
| TUTICORIN      | KANYAKUMARI |              2 | SEATER    |
| HYDERABAD      | VIJAYAWADA  |              4 | SEATER    |
| JAIPUR         | DELHI       |              2 | SLEEPER   |
| MUMBAI         | PUNE        |              1 | SEATER    |
| CHENNAI        | COIMBATORE  |              6 | SLEEPER   |
| PALAKKAD       | BANGLORE    |              2 | SLEEPER   |
| TIRUNELVELI    | PALANI      |              3 | SLEEPER   |
| TUTICORIN      | KANYAKUMARI |              1 | SLEEPER   |
| HYDERABAD      | VIJAYAWADA  |              2 | SLEEPER   |
| JAIPUR         | DELHI       |              2 | SEATER    |
| MUMBAI         | PUNE        |              2 | SEATER    |
+----------------+-------------+----------------+-----------+
22 rows in set (0.002 sec)

MariaDB [project]>
```

## 3.create view to show booking status and fare amount from table booking.

ANS :-

```
MariaDB [project]> create view V6 AS select booking.booking_status,booking.fare_amount from booking;
Query OK, 0 rows affected (0.005 sec)

MariaDB [project]> select * from V6;
+----------------+-------------+
| booking_status | fare_amount |
+----------------+-------------+
| CONFIRMED      |        1000 |
| CONFIRMED      |         500 |
| CONFIRMED      |        1000 |
| CONFIRMED      |        1000 |
| CONFIRMED      |        1500 |
| CONFIRMED      |        1000 |
| CONFIRMED      |        1000 |
| CONFIRMED      |         500 |
| CONFIRMED      |         900 |
| CONFIRMED      |         900 |
| CONFIRMED      |        1500 |
| CONFIRMED      |        1000 |
| CONFIRMED      |        1800 |
| CONFIRMED      |        1000 |
| CONFIRMED      |         450 |
| CONFIRMED      |        3000 |
| CONFIRMED      |        1000 |
| CONFIRMED      |        1500 |
| CONFIRMED      |         500 |
| CONFIRMED      |        1000 |
| CONFIRMED      |         900 |
| CONFIRMED      |         900 |
+----------------+-------------+
22 rows in set (0.002 sec)

MariaDB [project]> _
```

# GROUP BY AND ORDER BY

1.show the table in fare amount in ascending order

ANS:-

```
MariaDB [project]> select * from booking order by fare_amount asc;
+------------+-----------------+-------------+----------------+-----------+
| booking_id | Number_of_seats | fare_amount | booking_status | SEAT_TYPE |
+------------+-----------------+-------------+----------------+-----------+
|         15 |               1 |         450 | CONFIRMED      | SEATER    |
|          2 |               1 |         500 | CONFIRMED      | SLEEPER   |
|         19 |               1 |         500 | CONFIRMED      | SLEEPER   |
|          8 |               1 |         500 | CONFIRMED      | SEATER    |
|         22 |               2 |         900 | CONFIRMED      | SEATER    |
|         21 |               2 |         900 | CONFIRMED      | SEATER    |
|         10 |               2 |         900 | CONFIRMED      | SEATER    |
|          9 |               2 |         900 | CONFIRMED      | SEATER    |
|         17 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         20 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         14 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         12 |               2 |        1000 | CONFIRMED      | SEATER    |
|          1 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          3 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          7 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          4 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          6 |               2 |        1000 | CONFIRMED      | SEATER    |
|          5 |               3 |        1500 | CONFIRMED      | SLEEPER   |
|         18 |               3 |        1500 | CONFIRMED      | SLEEPER   |
|         11 |               3 |        1500 | CONFIRMED      | SLEEPER   |
|         13 |               4 |        1800 | CONFIRMED      | SEATER    |
|         16 |               6 |        3000 | CONFIRMED      | SLEEPER   |
+------------+-----------------+-------------+----------------+-----------+
22 rows in set (0.012 sec)

MariaDB [project]>
```

## 2.show table in booking id in descending order

ANS:-

```
MariaDB [project]> select * from booking order by booking_id desc;
+------------+-----------------+-------------+----------------+-----------+
| booking_id | Number_of_seats | fare_amount | booking_status | SEAT_TYPE |
+------------+-----------------+-------------+----------------+-----------+
|         22 |               2 |         900 | CONFIRMED      | SEATER    |
|         21 |               2 |         900 | CONFIRMED      | SEATER    |
|         20 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         19 |               1 |         500 | CONFIRMED      | SLEEPER   |
|         18 |               3 |        1500 | CONFIRMED      | SLEEPER   |
|         17 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         16 |               6 |        3000 | CONFIRMED      | SLEEPER   |
|         15 |               1 |         450 | CONFIRMED      | SEATER    |
|         14 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|         13 |               4 |        1800 | CONFIRMED      | SEATER    |
|         12 |               2 |        1000 | CONFIRMED      | SEATER    |
|         11 |               3 |        1500 | CONFIRMED      | SLEEPER   |
|         10 |               2 |         900 | CONFIRMED      | SEATER    |
|          9 |               2 |         900 | CONFIRMED      | SEATER    |
|          8 |               1 |         500 | CONFIRMED      | SEATER    |
|          7 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          6 |               2 |        1000 | CONFIRMED      | SEATER    |
|          5 |               3 |        1500 | CONFIRMED      | SLEEPER   |
|          4 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          3 |               2 |        1000 | CONFIRMED      | SLEEPER   |
|          2 |               1 |         500 | CONFIRMED      | SLEEPER   |
|          1 |               2 |        1000 | CONFIRMED      | SLEEPER   |
+------------+-----------------+-------------+----------------+-----------+
22 rows in set (0.001 sec)

MariaDB [project]> _
```

# 3.GROUP BY NAME IN ASCENDING ORDER

## Ans:-

```
MariaDB [project]> select * from customer_details group by customer_name;
+-------------+---------------+------------------+-----------------------+------------+
| customer_id | customer_name | customer_contact | customer_email        | booking_id |
+-------------+---------------+------------------+-----------------------+------------+
|         104 | ANEESH        | 944765532        | aneesh16@gmail.com     |          4 |
|         110 | DEEPIKA       | 944785942        | deepika04@gmail.com    |         10 |
|         105 | DEVESH        | 944798742        | devesh04@gmail.com     |          5 |
|         111 | DIVITH        | 944780242        | divith5@gmail.com      |         11 |
|         118 | DIVYA         | 944221715        | divya15@gmail.com      |         18 |
|         121 | HARSHU        | 942174715        | harshu21@gmail.com     |         21 |
|         122 | HIMANSHU      | 942172315        | himanshu23@gmail.com   |         22 |
|         108 | KHUSHI        | 944766942        | khushi14@gmail.com     |          8 |
|         119 | NIMESH        | 944279715        | nimesh27@gmail.com     |         19 |
|         114 | OM            | 944222742        | om83@gmail.com         |         14 |
|         107 | PRIYA         | 944766542        | priya14@gmail.com      |          7 |
|         120 | RAHUL         | 944274715        | rahul88@gmail.com      |         20 |
|         106 | RAJESH        | 944766742        | rajesh54@gmail.com     |          6 |
|         116 | ROHAN         | 944221542        | rohan15@gmail.com      |         16 |
|         103 | SAKTHES       | 987765532        | sakthes06@gmail.com    |          3 |
|         117 | SAMRUDDHI     | 944221742        | sam17@gmail.com        |         17 |
|         112 | SANJAY        | 944780742        | sanji33@gmail.com      |         12 |
|         109 | SHIVA         | 944700942        | shiva11@gmail.com      |          9 |
|         102 | SHUBHAM       | 987765432        | shubham2922@gmail.com  |          2 |
|         115 | SOHAM         | 944220942        | soham73@gmail.com      |         15 |
|         101 | SUMIT         | 987654321        | sumit1103@gmail.com    |          1 |
|         113 | VIGNESH       | 944580742        | vignesh13@gmail.com    |         13 |
+-------------+---------------+------------------+-----------------------+------------+
22 rows in set (0.001 sec)

MariaDB [project]> _
```

# JOINS

1. Perform left join to get customer name seat type and mode of payment from tables booking, payment details and customer details.

ANS:

```
MariaDB [project]> select b.customer_name,c.seat_type,p.mode_of_payment from customer_details b left join booking c on b.booking_id=c.booking_id join payment_details p on b.booking_id=p.booking_id;
+---------------+-----------+-----------------+
| customer_name | seat_type | mode_of_payment |
+---------------+-----------+-----------------+
| SUMIT         | SLEEPER   | CASH            |
| SHUBHAM       | SLEEPER   | CASH            |
| SAKTHES       | SLEEPER   | CASH            |
| ANEESH        | SLEEPER   | UPI             |
| DEVESH        | SLEEPER   | CASH            |
| RAJESH        | SEATER    | CASH            |
| PRIYA         | SLEEPER   | UPI             |
| KHUSHI        | SEATER    | UPI             |
| SHIVA         | SEATER    | CASH            |
| DEEPIKA       | SEATER    | CASH            |
| DIVITH        | SLEEPER   | CASH            |
| SANJAY        | SEATER    | CASH            |
| VIGNESH       | SEATER    | UPI             |
| OM            | SLEEPER   | CASH            |
| SOHAM         | SEATER    | CASH            |
| ROHAN         | SLEEPER   | UPI             |
| SAMRUDDHI     | SLEEPER   | CASH            |
| DIVYA         | SLEEPER   | CASH            |
| NIMESH        | SLEEPER   | CASH            |
| RAHUL         | SLEEPER   | CASH            |
| HARSHU        | SEATER    | CASH            |
| HIMANSHU      | SEATER    | UPI             |
+---------------+-----------+-----------------+
22 rows in set (0.002 sec)
```

2. perform right join to show customer name and seat type from table customer details and booking.

ANS:-

```
MariaDB [project]> select b.customer_name,c.seat_type from customer_details b right join  booking c on b.booking_id=c.booking_id;
+---------------+-----------+
| customer_name | seat_type |
+---------------+-----------+
| SUMIT         | SLEEPER   |
| SHUBHAM       | SLEEPER   |
| SAKTHES       | SLEEPER   |
| ANEESH        | SLEEPER   |
| DEVESH        | SLEEPER   |
| RAJESH        | SEATER    |
| PRIYA         | SLEEPER   |
| KHUSHI        | SEATER    |
| SHIVA         | SEATER    |
| DEEPIKA       | SEATER    |
| DIVITH        | SLEEPER   |
| SANJAY        | SEATER    |
| VIGNESH       | SEATER    |
| OM            | SLEEPER   |
| SOHAM         | SEATER    |
| ROHAN         | SLEEPER   |
| SAMRUDDHI     | SLEEPER   |
| DIVYA         | SLEEPER   |
| NIMESH        | SLEEPER   |
| RAHUL         | SLEEPER   |
| HARSHU        | SEATER    |
| HIMANSHU      | SEATER    |
+---------------+-----------+
22 rows in set (0.011 sec)

MariaDB [project]>
```

# ER DIAGRAM