DBMS

LAB – 5

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**SRN :** PES1UG20CS385

1. Query :

  --First view--

CREATE VIEW compute\_price\_385 AS

SELECT ticket\_385.PNR, ticket\_385.Train\_No, ticket\_385.Departure, ticket\_385.Arrival,

route\_info\_385.Distance, fare\_table\_385.FarePerKM

FROM ticket\_385, route\_info\_385, fare\_table\_385

WHERE (ticket\_385.Train\_No = route\_info\_385.Train\_No AND

       ticket\_385.Departure = route\_info\_385.From\_Station\_Name AND

       ticket\_385.Arrival = route\_info\_385.To\_Station\_Name AND

       fare\_table\_385.Train\_Type = ticket\_385.Train\_Type AND

       fare\_table\_385.Compartment\_Type = ticket\_385.Compartment\_type);

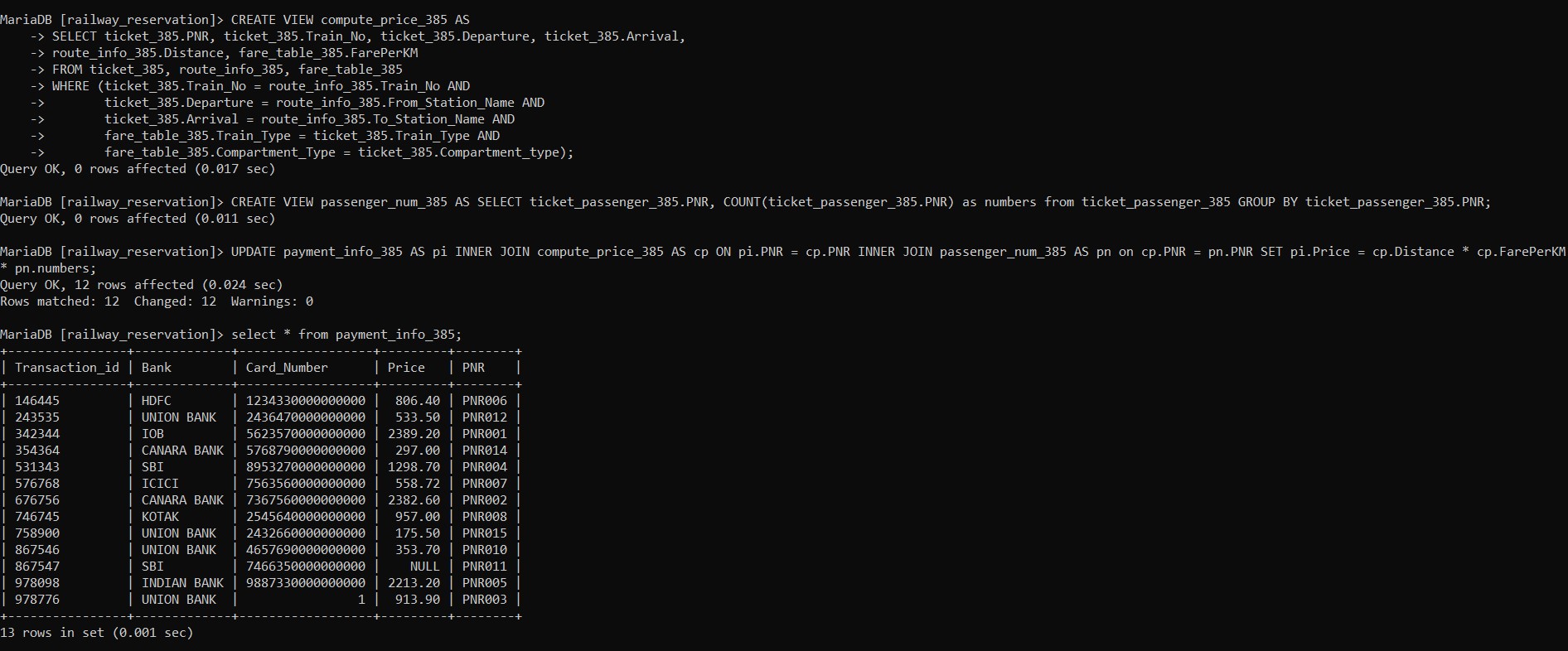
  --second view--

CREATE VIEW passenger\_num\_385 AS SELECT ticket\_passenger\_385.PNR, COUNT(ticket\_passenger\_385.PNR) as numbers from ticket\_passenger\_385 GROUP BY ticket\_passenger\_385.PNR;

  --final query--

UPDATE payment\_info\_385 AS pi INNER JOIN compute\_price\_385 AS cp ON pi.PNR = cp.PNR INNER JOIN passenger\_num\_385 AS pn on cp.PNR = pn.PNR SET pi.Price = cp.Distance \* cp.FarePerKM \* pn.numbers;

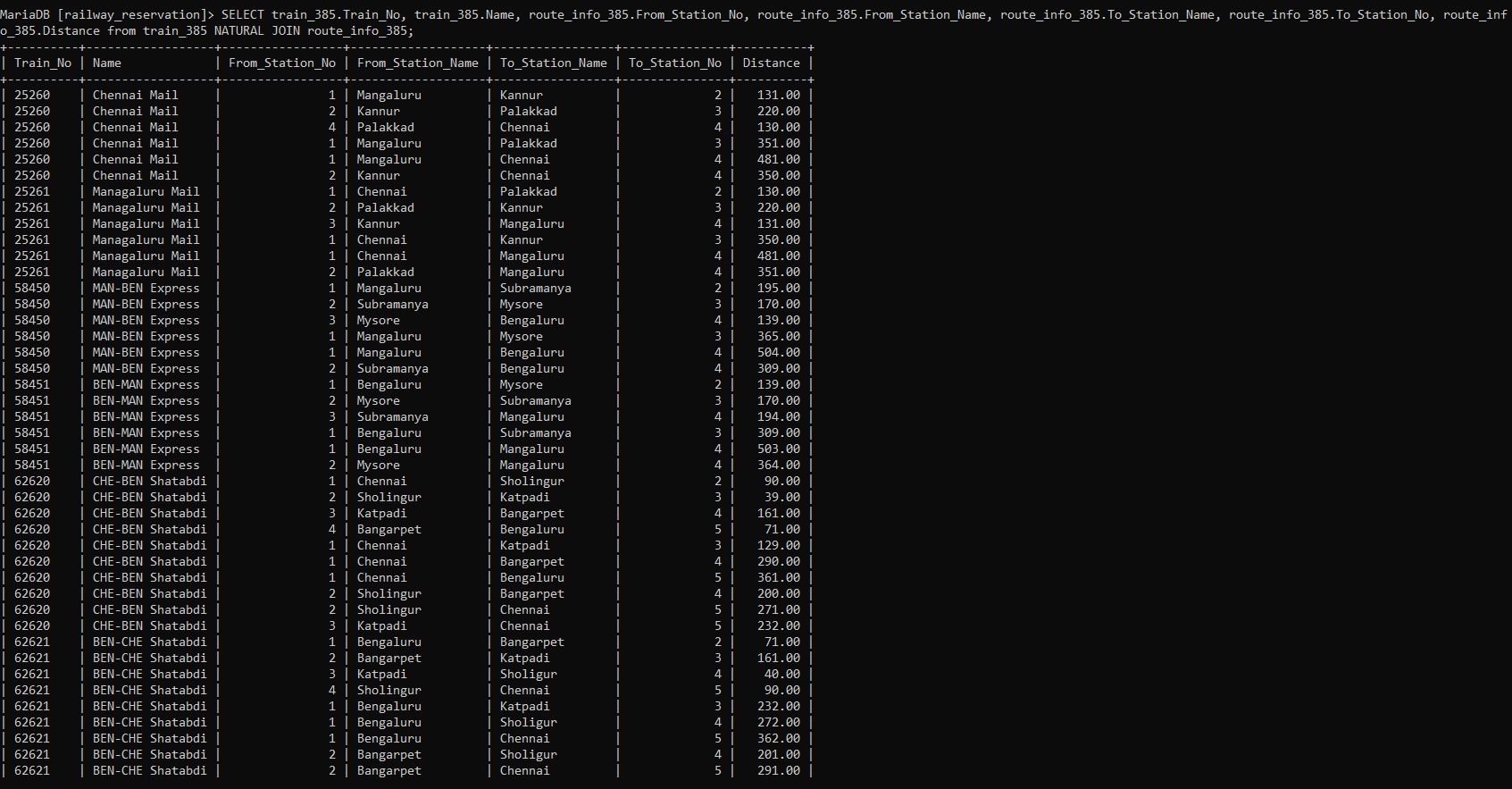
OUT PUT :



1. Query :

SELECT train\_385.Train\_No, train\_385.Name, route\_info\_385.From\_Station\_No, route\_info\_385.From\_Station\_Name, route\_info\_385.To\_Station\_Name, route\_info\_385.To\_Station\_No, route\_info\_385.Distance from train\_385 NATURAL JOIN route\_info\_385;

OUT PUT :



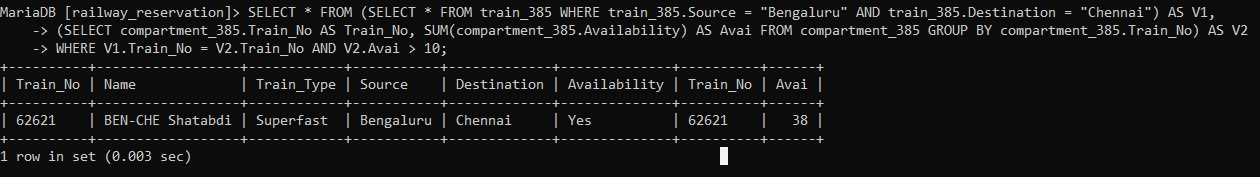
1. Query :

SELECT \* FROM (SELECT \* FROM train\_385 WHERE train\_385.Source = "Bengaluru" AND train\_385.Destination = "Chennai") AS V1,

    (SELECT compartment\_385.Train\_No AS Train\_No, SUM(compartment\_385.Availability) AS Avai FROM compartment\_385 GROUP BY compartment\_385.Train\_No) AS V2

    WHERE V1.Train\_No = V2.Train\_No AND V2.Avai > 10;

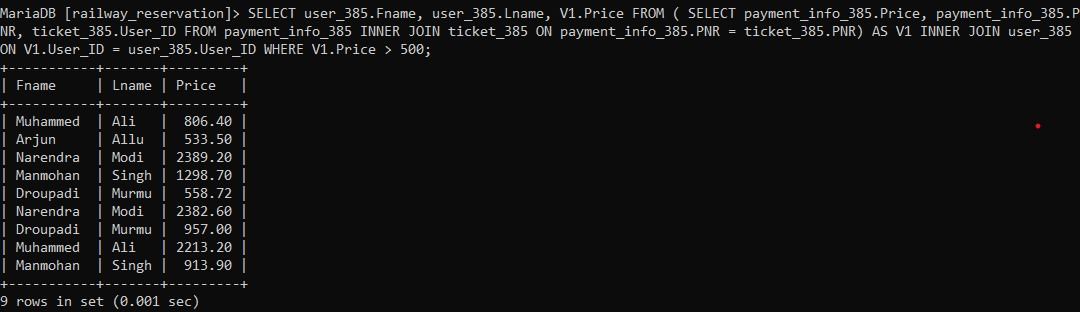
OUT PUT :



1. Query :

SELECT user\_385.Fname, user\_385.Lname, V1.Price FROM ( SELECT payment\_info\_385.Price, payment\_info\_385.PNR, ticket\_385.User\_ID FROM payment\_info\_385 INNER JOIN ticket\_385 ON payment\_info\_385.PNR = ticket\_385.PNR) AS V1 INNER JOIN user\_385 ON V1.User\_ID = user\_385.User\_ID WHERE V1.Price > 500;

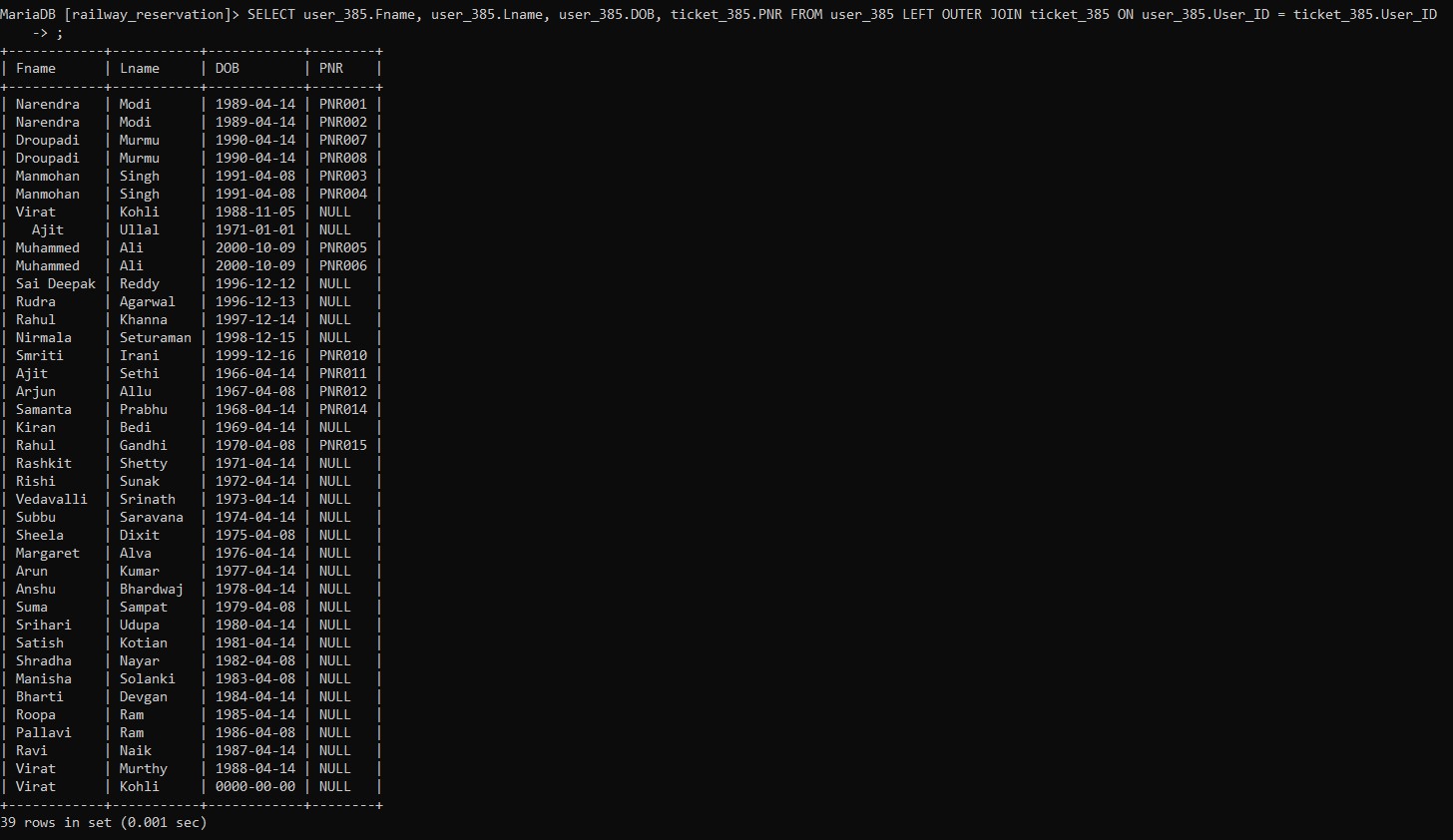
OUT PUT :



1. Query :

SELECT user\_385.Fname, user\_385.Lname, user\_385.DOB, ticket\_385.PNR FROM user\_385 LEFT OUTER JOIN ticket\_385 ON user\_385.User\_ID = ticket\_385.User\_ID

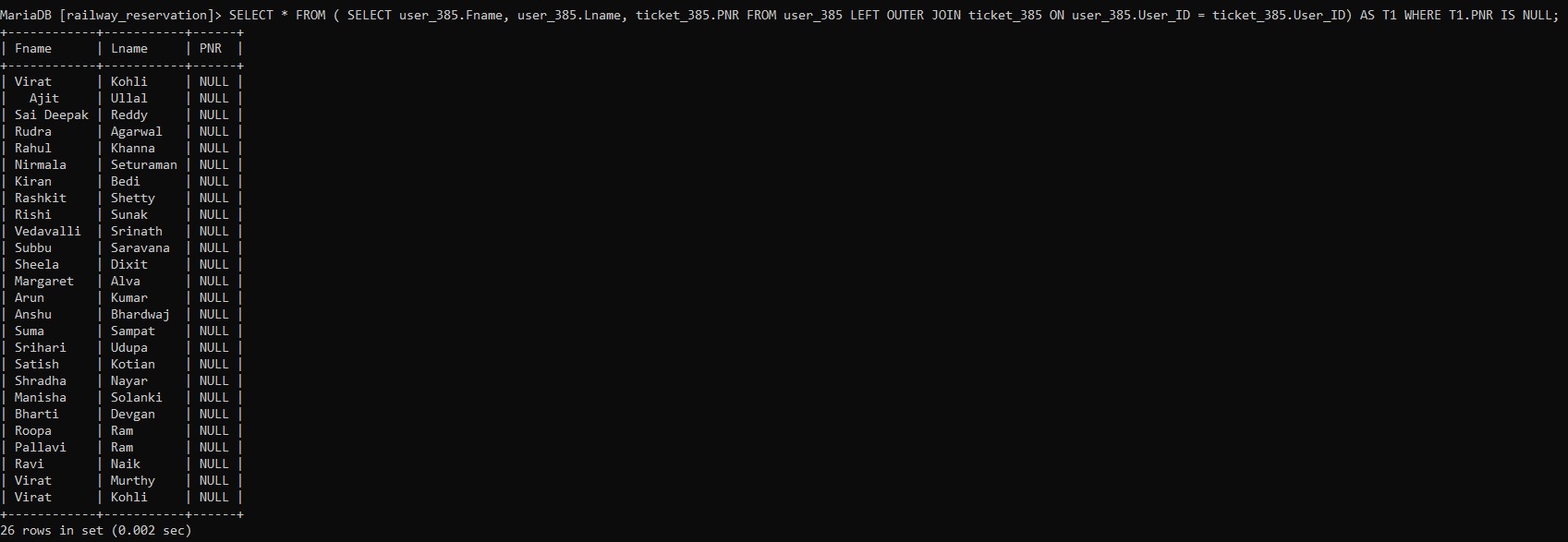
OUT PUT :



1. Query :

SELECT \* FROM ( SELECT user\_385.Fname, user\_385.Lname, ticket\_385.PNR FROM user\_385 LEFT OUTER JOIN ticket\_385 ON user\_385.User\_ID = ticket\_385.User\_ID) AS T1 WHERE T1.PNR IS NULL

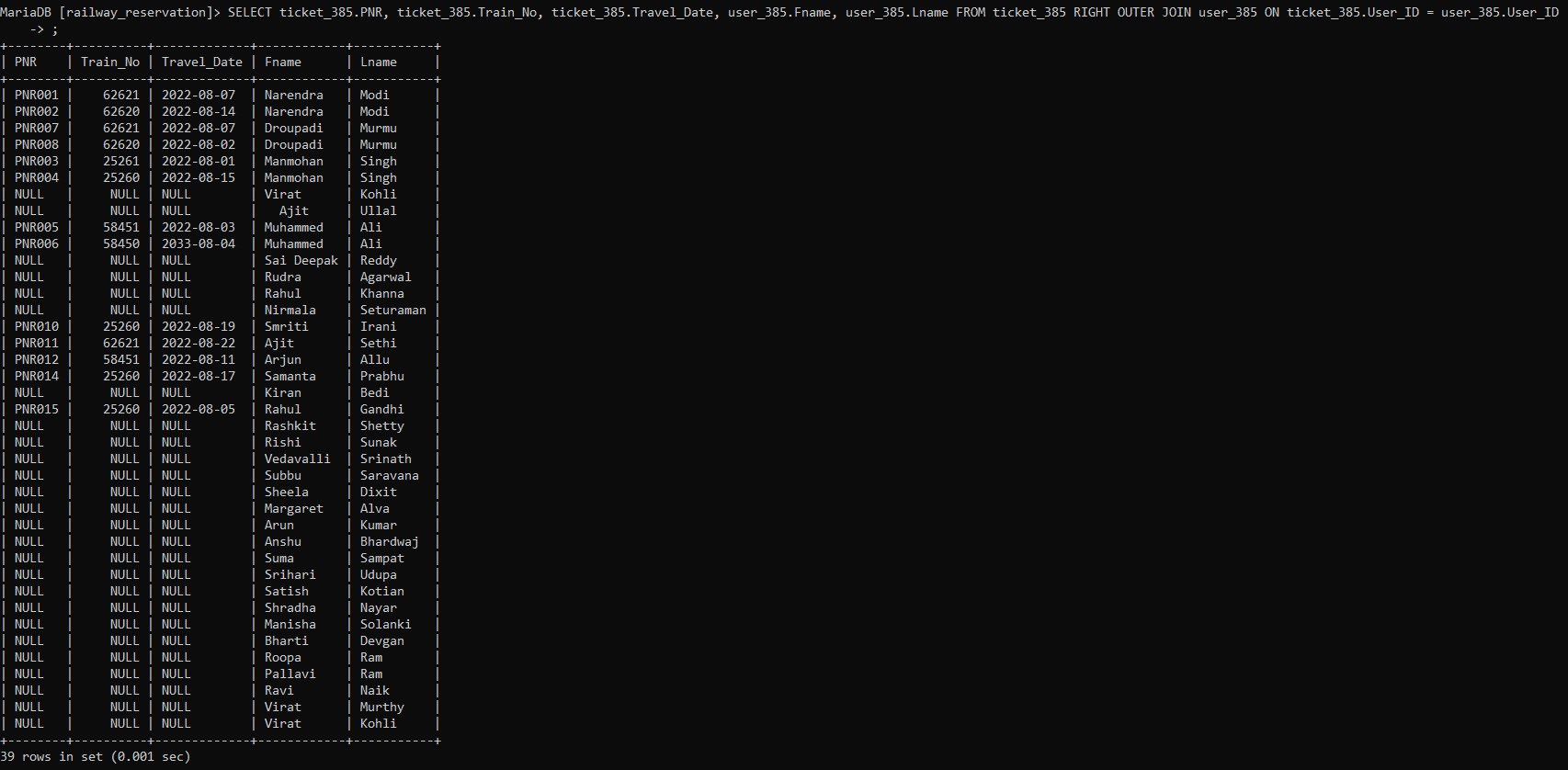
OUT PUT :



1. Query :

SELECT ticket\_385.PNR, ticket\_385.Train\_No, ticket\_385.Travel\_Date, user\_385.Fname, user\_385.Lname FROM ticket\_385 RIGHT OUTER JOIN user\_385 ON ticket\_385.User\_ID = user\_385.User\_ID

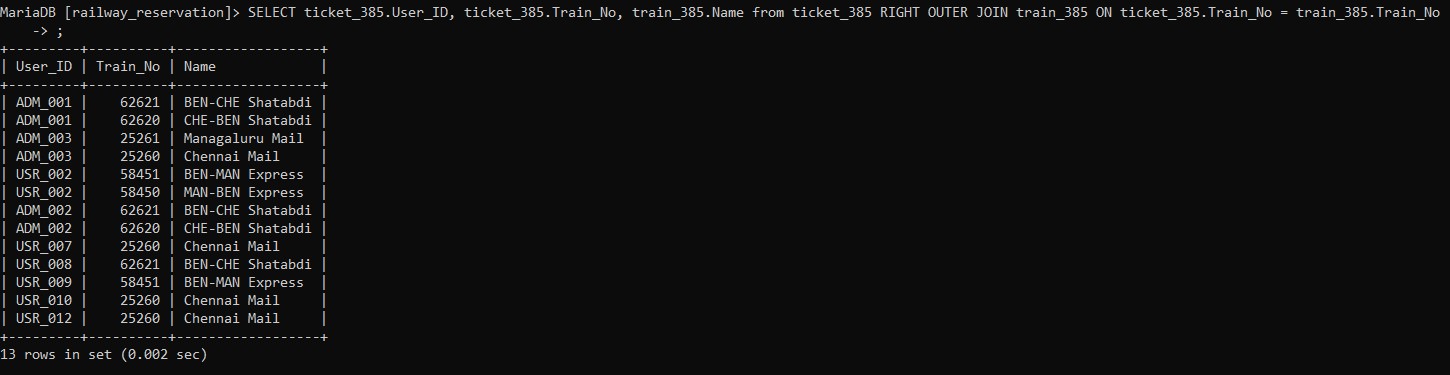
OUT PUT :



1. Query :

SELECT ticket\_385.User\_ID, ticket\_385.Train\_No, train\_385.Name from ticket\_385 RIGHT OUTER JOIN train\_385 ON ticket\_385.Train\_No = train\_385.Train\_No

OUT PUT :



1. Query :

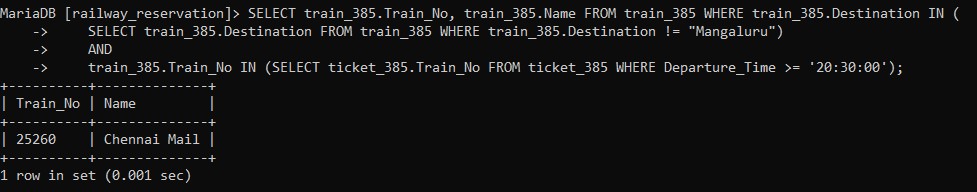
SELECT train\_385.Train\_No, train\_385.Name FROM train\_385 WHERE train\_385.Destination IN (

        SELECT train\_385.Destination FROM train\_385 WHERE train\_385.Destination != "Mangaluru")

        AND

        train\_385.Train\_No IN (SELECT ticket\_385.Train\_No FROM ticket\_385 WHERE Departure\_Time >= '20:30:00');

OUT PUT :



1. Query :

SELECT ticket\_385.User\_ID

FROM payment\_info\_385 NATURAL JOIN ticket\_385

where payment\_info\_385.price > (SELECT AVG(payment\_info\_385.Price) FROM payment\_info\_385)

OUT PUT :

