DBMS

LAB – 7

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**SRN :** PES1UG20CS385

1. **Find the list of passengers (user\_id, user\_type First name and last name) who have traveled from Bengaluru to Chennai during the month of Oct 2021 and Aug 2022**

**Query :**

SELECT T1.User\_ID,

    T2.User\_Type,

    T2.FName,

    T2.LName

FROM ticket\_385 T1

    JOIN user\_385 T2 ON T1.User\_ID = T2.User\_ID

WHERE T1.Travel\_Date BETWEEN '2021-10-01' AND '2021-10-31'

    AND T1.Departure = 'Bengaluru'

    AND T1.Arrival = 'Chennai'

UNION

(

    SELECT T3.User\_ID,

        T4.User\_Type,

        T4.FName,

        T4.LName

    FROM ticket\_385 T3

        JOIN user\_385 T4 ON T3.User\_ID = T4.User\_ID

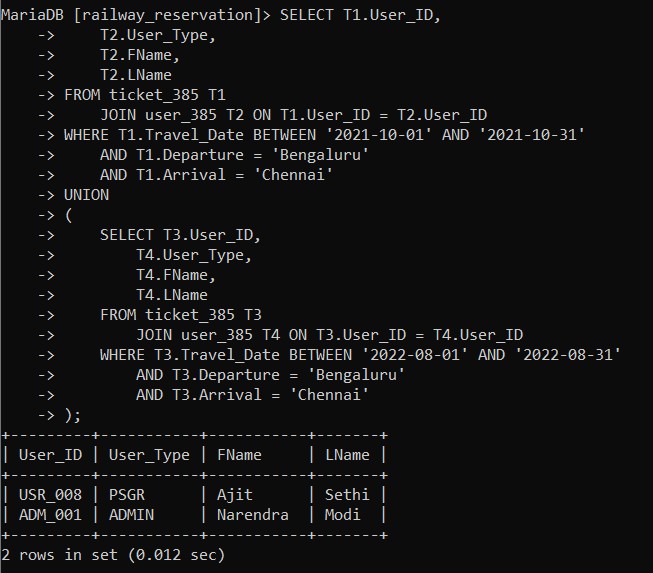
    WHERE T3.Travel\_Date BETWEEN '2022-08-01' AND '2022-08-31'

        AND T3.Departure = 'Bengaluru'

        AND T3.Arrival = 'Chennai'

);

**OUTPUT :**



1. **Find the list of passengers (user\_id, user\_type First name and last name) who have traveled from Bengaluru to Chennai during the month of Oct 2021 and also during Aug 2022**

**Query :**

SELECT T1.User\_ID,

    T2.User\_Type,

    T2.FName,

    T2.LName

FROM ticket\_385 T1

    JOIN user\_385 T2 ON T1.User\_ID = T2.User\_ID

WHERE T1.Travel\_Date BETWEEN '2021-10-01' AND '2021-10-31'

    AND T1.Departure = 'Bengaluru'

    AND T1.Arrival = 'Chennai'

INTERSECT

(

    SELECT T3.User\_ID,

        T4.User\_Type,

        T4.FName,

        T4.LName

    FROM ticket\_385 T3

        JOIN user\_385 T4 ON T3.User\_ID = T4.User\_ID

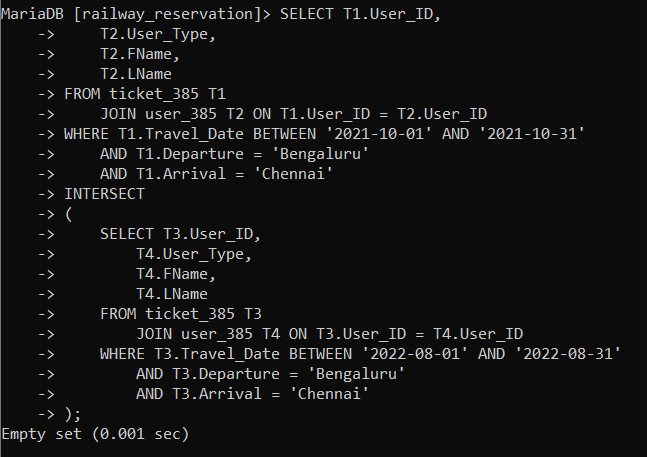
    WHERE T3.Travel\_Date BETWEEN '2022-08-01' AND '2022-08-31'

        AND T3.Departure = 'Bengaluru'

        AND T3.Arrival = 'Chennai'

);

**OUTPUT :**



1. **Find the list of passengers (user\_id, user\_type First name and last name) who have traveled from Bengaluru to Chennai during the month of Aug 2022 and not in Oct 2021**

**Query :**

SELECT T1.User\_ID,

    T2.User\_Type,

    T2.FName,

    T2.LName

FROM ticket\_385 T1

    JOIN user\_385 T2 ON T1.User\_ID = T2.User\_ID

WHERE T1.Travel\_Date BETWEEN '2022-08-01' AND '2022-08-31'

    AND T1.Departure = 'Bengaluru'

    AND T1.Arrival = 'Chennai'

EXCEPT(

        SELECT T3.User\_ID,

            T4.User\_Type,

            T4.FName,

            T4.LName

        FROM ticket\_385 T3

            JOIN user\_385 T4 ON T3.User\_ID = T4.User\_ID

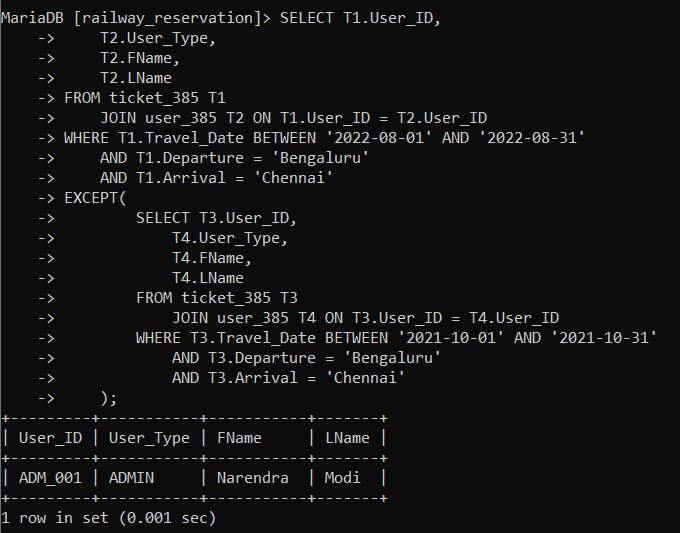
        WHERE T3.Travel\_Date BETWEEN '2021-10-01' AND '2021-10-31'

            AND T3.Departure = 'Bengaluru'

            AND T3.Arrival = 'Chennai'

    );

**OUTPUT :**



1. **Find the list of passengers (user\_id, user\_type, First name and last name) who have traveled from Bengaluru to Chennai and returned to Bengaluru within a week.**

**Query :**

SELECT T1.User\_ID,

    T2.User\_Type,

    T2.FName,

    T2.LName

FROM ticket\_385 T1

    JOIN user\_385 T2 ON T1.User\_ID = T2.User\_ID

WHERE T1.Departure = 'Bengaluru'

    AND T1.Arrival = 'Chennai'

    AND EXISTS(

        SELECT T3.User\_ID,

            T4.User\_Type,

            T4.FName,

            T4.LName

        FROM ticket\_385 T3

            JOIN user\_385 T4 ON T3.User\_ID = T4.User\_ID

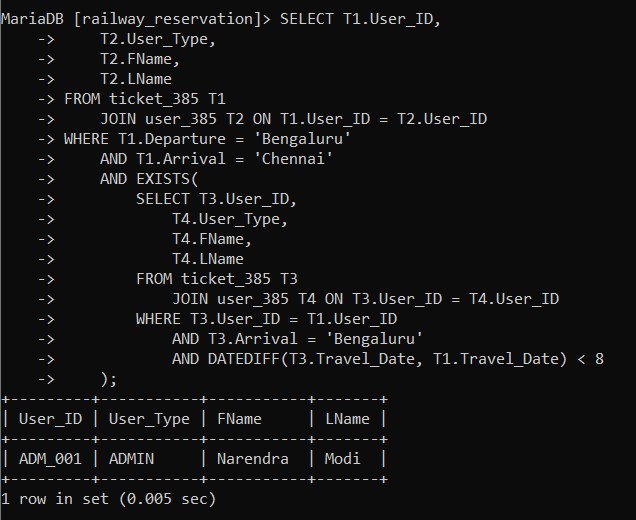
        WHERE T3.User\_ID = T1.User\_ID

            AND T3.Arrival = 'Bengaluru'

            AND DATEDIFF(T3.Travel\_Date, T1.Travel\_Date) < 8

    );

**OUTPUT :**



1. **Find the list of passengers (user\_id, user\_type, First name and last name) who have traveled from Bengaluru to Chennai and did not return to Bengaluru (in other words, only one way travel from Bengaluru to Chennai)**

**Query :**

SELECT T1.User\_ID,

    T2.User\_Type,

    T2.FName,

    T2.LName

FROM ticket\_385 T1

    JOIN user\_385 T2 ON T1.User\_ID = T2.User\_ID

WHERE T1.Departure = 'Bengaluru'

    AND T1.Arrival = 'Chennai'

    AND NOT EXISTS(

        SELECT T3.User\_ID,

            T4.User\_Type,

            T4.FName,

            T4.LName

        FROM ticket\_385 T3

            JOIN user\_385 T4 ON T3.User\_ID = T4.User\_ID

        WHERE T3.User\_ID = T1.User\_ID

            AND T3.Arrival = 'Bengaluru'

            AND T3.Travel\_Date >= T1.Travel\_Date

    );

**OUTPUT :**

