

DBMS Lab 7

Keerthana Shivakumar

PES1UG20CS204

Assignment:

✓ 1 row inserted. (Query took 0.0012 seconds.)

```
INSERT INTO ticket_204( PNR, Train_No, Travel_date, Passenger_id, arrival, departure, Train_Type, compartment_type, compartment_No, arrival_place, departure_place ) VALUES( 'PNR021', 62621, '2021-10-22', 'USR_008', '20:30:00', '16:00:00', 'Superfast', 'I Class', 'F01', 'Chennai', 'Bengaluru' );
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

✓ 1 row affected. (Query took 0.0011 seconds.)

```
UPDATE train_204 SET SOURCE = TRIM(SOURCE), destination = TRIM(destination);
```

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

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

SELECT

passenger_204.User_ID,
passenger_204.user_type,
passenger_204.Firstname,
passenger_204.Lastname

FROM

passenger_204,
ticket_204

WHERE

passenger_204.User_ID = ticket_204.Passenger_id AND ticket_204.departure_place = 'Bengaluru' AND
ticket_204.arrival_place = 'Chennai' AND ticket_204.Travel_date BETWEEN '2021-10-01' AND '2021-10-31'

UNION

SELECT

passenger_204.User_ID,
passenger_204.user_type,
passenger_204.Firstname,
passenger_204.Lastname

FROM

passenger_204,
ticket_204

WHERE

passenger_204.User_ID = ticket_204.Passenger_id AND ticket_204.departure_place = 'Bengaluru' AND
ticket_204.arrival_place = 'Chennai' AND ticket_204.Travel_date BETWEEN '2022-08-01' AND '2022-08-31';

Showing rows 0 - 1 (2 total, Query took 0.0021 seconds.)

```
/*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*/ SELECT passenger_204.User_ID, passenger_204.user_type, passenger_204.Firstname, passenger_204.Lastname FROM passenger_204, ticket_204 WHERE passenger_204.User_ID = ticket_204.Passenger_id AND ticket_204.departure_place = 'Bengaluru' AND ticket_204.arrival_place = 'Chennai' AND ticket_204.Travel_date BETWEEN '2021-10-01' AND '2021-10-31' UNION SELECT passenger_204.User_ID, passenger_204.user_type, passenger_204.Firstname, passenger_204.Lastname FROM passenger_204, ticket_204 WHERE passenger_204.User_ID = ticket_204.Passenger_id AND ticket_204.departure_place = 'Bengaluru' AND ticket_204.arrival_place = 'Chennai' AND ticket_204.Travel_date
```

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

User_ID	user_type	Firstname	Lastname
USR_008	PSGR	Ajit	Sethi
ADM_001	ADMIN	Narendra	Modi

2. 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

/*2.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*/

SELECT

passenger_204.User_ID,
passenger_204.user_type,
passenger_204.Firstname,
passenger_204.Lastname

FROM

passenger_204,
ticket_204

WHERE

passenger_204.User_ID = ticket_204.Passenger_id AND ticket_204.departure_place = 'Bengaluru' AND ticket_204.arrival_place = 'Chennai' AND ticket_204.Travel_date BETWEEN '2021-10-01' AND '2021-10-31' AND EXISTS(

SELECT

passenger_204.User_ID,
passenger_204.user_type,
passenger_204.Firstname,
passenger_204.Lastname

FROM

passenger_204,
ticket_204

WHERE

passenger_204.User_ID = ticket_204.Passenger_id AND ticket_204.departure_place = 'Bengaluru' AND ticket_204.arrival_place = 'Chennai' AND ticket_204.Travel_date BETWEEN '2022-08-01' AND '2022-08-31'

);

Showing rows 0 - 0 (1 total, Query took 0.0012 seconds.)

```
/*2.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*/ SELECT passenger_204.User_ID, passenger_204.user_type, passenger_204.Firstname, passenger_204.Lastname FROM passenger_204, ticket_204 WHERE passenger_204.User_ID = ticket_204.Passenger_id AND ticket_204.departure_place = 'Bengaluru' AND ticket_204.arrival_place = 'Chennai' AND ticket_204.Travel_date BETWEEN '2021-10-01' AND '2021-10-31' AND EXISTS( SELECT passenger_204.User_ID, passenger_204.user_type, passenger_204.Firstname, passenger_204.Lastname FROM passenger_204, ticket_204 WHERE passenger_204.User_ID = ticket_204.Passenger_id AND ticket_204.departure_place = 'Bengaluru' AND ticket_204.arrival_place = 'Chennai' AND ticket_204.Travel_date
```

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

User_ID	user_type	Firstname	Lastname
USR_008	PSGR	Ajit	Sethi

3. 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

/*3.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*/

SELECT

passenger_204.User_ID,
passenger_204.user_type,
passenger_204.Firstname,
passenger_204.Lastname

FROM

passenger_204,
ticket_204

WHERE

passenger_204.User_ID = ticket_204.Passenger_id AND ticket_204.departure_place = 'Bengaluru' AND ticket_204.arrival_place = 'Chennai' AND ticket_204.Travel_date BETWEEN '2022-08-01' AND '2022-08-31' AND ticket_204.Travel_date NOT BETWEEN '2021-10-01' AND '2021-10-31';

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
/*3.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*/ SELECT passenger_204.User_ID, passenger_204.user_type, passenger_204.Firstname, passenger_204.Lastname FROM passenger_204, ticket_204 WHERE passenger_204.User_ID = ticket_204.Passenger_id AND ticket_204.departure_place = 'Bengaluru' AND ticket_204.arrival_place = 'Chennai' AND ticket_204.Travel_date BETWEEN '2022-08-01' AND '2022-08-31' AND ticket_204.Travel_date NOT BETWEEN '2021-10-01' AND '2021-10-31';
```

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

User_ID	user_type	Firstname	Lastname
ADM_001	ADMIN	Narendra	Modi

4. 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.

/*4.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.*/

```
SELECT
    passenger_204.User_ID,
    passenger_204.user_type,
    passenger_204.Firstname,
    passenger_204.Lastname
FROM
    passenger_204,
    ticket_204 AS ticket_204_Outer
WHERE
    passenger_204.User_ID = ticket_204_Outer.Passenger_id AND ticket_204_Outer.departure_place =
'Bengaluru' AND ticket_204_Outer.arrival_place = 'Chennai' AND EXISTS(
    SELECT
        ticket_204_Inner.PNR
    FROM
        ticket_204 AS ticket_204_Inner
    WHERE
        ticket_204_Outer.Passenger_id = ticket_204_Inner.Passenger_id AND
ticket_204_Inner.departure_place = 'Chennai' AND ticket_204_Inner.arrival_place = 'Bengaluru' AND
DATEDIFF(
        ticket_204_Inner.Travel_date,
        ticket_204_Outer.Travel_date
    ) BETWEEN 0 AND 7
);
```

Showing rows 0 - 0 (1 total, Query took 0.0583 seconds.)

```
/*4.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.*/ SELECT passenger_204.User_ID, passenger_204.user_type, passenger_204.Firstname, passenger_204.Lastname FROM passenger_204, ticket_204 AS ticket_204_Outer WHERE passenger_204.User_ID = ticket_204_Outer.Passenger_id AND ticket_204_Outer.departure_place = 'Bengaluru' AND ticket_204_Outer.arrival_place = 'Chennai' AND EXISTS( SELECT ticket_204_Inner.PNR FROM ticket_204 AS ticket_204_Inner WHERE ticket_204_Outer.Passenger_id = ticket_204_Inner.Passenger_id AND ticket_204_Inner.departure_place = 'Chennai' AND ticket_204_Inner.arrival_place = 'Bengaluru' AND DATEDIFF( ticket_204_Inner.Travel_date, ticket_204_Outer.Travel_date ) BETWEEN 0 AND 7 );
```

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

User_ID	user_type	Firstname	Lastname
ADM_001	ADMIN	Narendra	Modi

5. 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)

/*5.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)*/

```
SELECT
    passenger_204.User_ID,
    passenger_204.user_type,
```

```

passenger_204.Firstname,
passenger_204.Lastname
FROM
    passenger_204,
    ticket_204 AS ticket_204_Outer
WHERE
    passenger_204.User_ID = ticket_204_Outer.Passenger_id AND ticket_204_Outer.departure_place =
'Bengaluru' AND ticket_204_Outer.arrival_place = 'Chennai' AND NOT EXISTS(
    SELECT
        ticket_204_Inner.PNR
    FROM
        ticket_204 AS ticket_204_Inner
    WHERE
        ticket_204_Outer.Passenger_id = ticket_204_Inner.Passenger_id AND
ticket_204_Inner.departure_place = 'Chennai' AND ticket_204_Inner.arrival_place = 'Bengaluru'
);

```

✓ Showing rows 0 - 0 (1 total, Query took 0.0292 seconds.)

/*5.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)*/ `SELECT` passenger_204.User_ID, passenger_204.user_type, passenger_204.Firstname, passenger_204.Lastname `FROM` passenger_204, ticket_204 `AS` ticket_204_Outer `WHERE` passenger_204.User_ID = ticket_204_Outer.Passenger_id `AND` ticket_204_Outer.departure_place = 'Bengaluru' `AND` ticket_204_Outer.arrival_place = 'Chennai' `AND` `NOT EXISTS`(`SELECT` ticket_204_Inner.PNR `FROM` ticket_204 `AS` ticket_204_Inner `WHERE` ticket_204_Outer.Passenger_id = ticket_204_Inner.Passenger_id `AND` ticket_204_Inner.departure_place = 'Chennai' `AND` ticket_204_Inner.arrival_place = 'Bengaluru');

[[Edit inline](#)] [[Edit](#)] [[Create PHP code](#)]

☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

User_ID	user_type	Firstname	Lastname
USR_008	PSGR	Ajit	Sethi