DBMS (LAB – 7) UNION, INTERSECTION, MINUS

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1. Find the list of passengers (user_id, user_type First name andlast name) who have traveled from Bengaluru to Chennai duringthe month of Oct 2021 and Aug 2022

2. Find the list of passengers (user_id, user_type First name andlast name) who have traveled from Bengaluru to Chennai duringthe month of Oct 2021 and also during Aug 2022.

```
MariaDB [cs634_rrs]> SELECT tu.user_id,tu.user_type,tu.firstname,tu.lastname FROM train_user as tu,ticket as t WHERE tu.
user_id = t.passenger_id and t.departure='Bengaluru' and t.arrival='Chennai' and t.travel_date>='2021-10-1' and t.travel
_date<='2021-10-31' and exists(SELECT tu.user_id,tu.user_type,tu.firstname,tu.lastname FROM train_user as tu,ticket as t
 WHERE tu.user_id = t.passenger_id and t.departure='Bengaluru' and t.arrival='Chennai' and t.travel_date>='2022-8-1' and
 t.travel_date<='2022-8-31');
+---------+-----------+-----------+----------+
| user_id | user_type | firstname | lastname |
+---------+-----------+-----------+----------+
| USR_008 | PSGR      | Ajit      | Sethi    |
+---------+-----------+-----------+----------+
1 row in set (0.001 sec)
```

3. Find the list of passengers (user_id, user_type First name andlast name) who have traveled from Bengaluru to Chennai duringthe month of Aug 2022 and not in Oct 2021.

```
MariaDB [cs634_rrs]> SELECT tu.user_id,tu.user_type,tu.firstname,tu.lastname FROM train_user as tu,ticket as t WHERE tu.
user_id = t.passenger_id and t.departure='Bengaluru' and t.arrival='Chennai' and t.travel_date>='2022-8-1' and t.travel_
date<='2022-8-31' and not exists(SELECT tu.user_id,tu.user_type,tu.firstname,tu.lastname FROM train_user as tu,ticket as
 t WHERE tu.user_id = t.passenger_id and t.departure='Bengaluru' and t.arrival='Chennai' and t.travel_date>='2021-10-1'
and t.travel_date<='2021-1-31');
+---------+-----------+-----------+----------+
| user_id | user_type | firstname | lastname |
+---------+-----------+-----------+----------+
| ADM_001 | ADMIN     | Narendra  | Modi     |
+---------+-----------+-----------+----------+
1 row in set (0.001 sec)
```

4. Find the list of passengers (user_id, user_type, First name andlast name) who have traveled from Bengaluru to Chennai andreturned to Bengaluru within a week.

```
MariaDB [cs634_rrs]> select tu.user_id,p.user_type,tu.firstname,tu.lastname from train_user tu,ticket as t WHERE tu.user
_id = t.passenger_id and t.departure='Bengaluru' and t.arrival='Chennai' and exists(select * from ticket as t_new where
t.passenger_id = t_new.passenger_id and t_new.Departure = 'Chennai' and t_new.Arrival = 'Bengaluru' AND (DATEDIFF(t_new.
travel_date,t.travel_date) BETWEEN 0 and 7));
```

5. Find the list of passengers (user_id, user_type, First name andlast name) who have traveled from Bengaluru to Chennai and didnot return to Bengaluru (in other words, only one way travelfrom Bengaluru to Chennai).

```
MariaDB [cs634_rrs]> select tu.user_id,tu.user_type,tu.firstname,tu.lastname from train_user tu,ticket as t WHERE tu.use
r_id = t.passenger_id and t.departure='Bengaluru' and t.arrival='Chennai' and not exists(select * from ticket as t_new w
here t_new.passenger_id=t.passenger_id and t_new.departure='Chennai' and t_new.arrival='Bengaluru');
+---------+-----------+-----------+----------+
| user_id | user_type | firstname | lastname |
+---------+-----------+-----------+----------+
| USR_008 | PSGR      | Ajit      | Sethi    |
+---------+-----------+-----------+----------+
1 row in set (0.001 sec)

MariaDB [cs634_rrs]>
```