DBMS Lab 7

UNION, INTERSECTION, MINUS operators

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Section: K

Roll No: 43

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

```
MariaDB [cs_pes1ug20cs648_railways]> Select user_id, user_type, firstname, lastname from ticket, trai
n_user where ticket.passenger_id = train_user.user_id and departure='Bengaluru' and arrival='Chennai' and (travel_date like '2021-10-%')
     -> UNION
-> Select user_id, user_type, firstname, lastname from ticket, train_user where ticket.passenger_id = train_user.user_id and departure='Bengaluru' and arrival='Chennai' and (travel_date like '2022-0
8-%');
  user_id | user_type | firstname
                                               lastname
  USR 008
               PSGR
                               Aiit
                                               Sethi
  ADM_001
               ADMIN
                               Narendra
                                               Modi
  rows in set (0.001 sec)
```

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.

```
MariaDB [cs_peslug20cs648_railways]> Select user_id, user_type, firstname, lastname from ticket, trai n_user where ticket.passenger_id = train_user.user_id and departure='Bengaluru' and arrival='Chennai' and (travel_date like '2021-10-%')

-> INTERSECT
-> Select user_id, user_type, firstname, lastname from ticket, train_user where ticket.passenger_id = train_user.user_id and departure='Bengaluru' and arrival='Chennai' and (travel_date like '2022-0 8-%');
Empty set (0.015 sec)
```

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

4. Find the list of passengers (user_id, user_type, First name and last name) who have travelled from Bengaluru to Chennai and returned to Bengaluru within a week.

5. Find the list of passengers (user_id, user_type, First name and last name) who have travelled from Bengaluru to Chennai and did not return to Bengaluru (in other words, only one way travel from Bengaluru to Chennai)