DBMS Lab 7

UNION, INTERSECTION, MINUS operators

GAURAV MAHAJAN PES1UG20CS150 SECTION C

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.

MariaDB [PES1UG20CS150_RRS_UPDATED]> select tu.user_id,tu.user_type,tu.firstname,tu.lastname from train_user as tu natur al join (select passenger_id as user_id from ticket where departure ='Bengaluru' and arrival ='Chennai' and travel_date in ((select travel_date from ticket where travel_date like '2022-08%')union(select travel_date from ticket where travel_ date like '2021-10%'))) as y;

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 [PES1UG20CS150_RRS_UPDATED]> select tu.user_id,tu.user_type,tu.firstname,tu.lastname from train_user tu natural join(select passenger_id as user_id from ticket where departure ="Bengaluru" and arrival="Chennai" and passenger_id in ((select passenger_id from ticket where travel_date like '2022-08%') intersect (select passenger_id from ticket where travel_date like '2021-10%'))) as y;

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.

MariaDB [PES1UG20CS150_RRS_UPDATED]> select tu.user_id,tu.user_type,tu.firstname,tu.lastname from train_user tu natural join(select passenger_id as user_id from ticket where departure ="Bengaluru" and arrival="Chennai" and passenger_id in ((select passenger_id from ticket where travel_date like '2022-08%') except (select passenger_id from ticket where travel_date like '2021-10%'))) as y;

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.

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).