

## DBMS Lab-07

SRN: PES1UG20CS450

Name: Sushanth M Nair

Section: H

Roll no: 50

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

Output:

```
MariaDB [peslug20cs450]> Select u.user_id,u.user_type,u.firstname,u.lastname from train_user as u,ticket_details as p WHERE (u.user_id = p.passenger_id AND p.departure = 'Bengaluru' AND p.arrival='Chennai' AND (p.travel_date like '2022-08%' OR p.travel_date like '2021-10%'));
```

user_id	user_type	firstname	lastname
ADM_001	ADMIN	Narendra	Modi
USR_008	PSGR	Ajit	Sethi

```
2 rows in set (0.001 sec)
```

MariaDB [peslug20cs450]>

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

Output:

```
MariaDB [peslug20cs450]> Select u.user_id,u.user_type,u.firstname,u.lastname from train_user as u,ticket_details as p WHERE (u.user_id = p.passenger_id AND p.departure = 'Bengaluru' AND p.arrival='Chennai' AND (p.travel_date like '2022-08%' AND p.travel_date like '2021-10%'));
```

Empty set (0.001 sec)

MariaDB [peslug20cs450]>

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

Output:

```
MariaDB [peslug20cs450]> Select u.user_id,u.user_type,u.firstname,u.lastname from train_user as u,ticket_details as p WHERE (u.user_id = p.passenger_id AND p.departure = 'Bengaluru' AND p.arrival='Chennai' AND (p.travel_date like '2022-08%')) except select user_id,user_type,firstname,lastname from train_user,ticket_details where arrival='Chennai' AND departure='Bengaluru' AND travel_date like '2021-10%' AND user_id=passenger_id;
```

user_id	user_type	firstname	lastname
ADM_001	ADMIN	Narendra	Modi

```
1 row in set (0.015 sec)
```

MariaDB [peslug20cs450]>

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.

Output:

```
MariaDB [peslug20cs450]> select user_id,user_type,firstname,lastname from(select * from
-> (select passenger_id,travel_date as tt1 from ticket_details where departure='Bengaluru' and arrival='Chennai') as b1
-> inner join
-> (select travel_date as tt2 from ticket_details where departure='Chennai' and arrival='Bengaluru') as b2
-> on b2.tt2<=b1.tt1 + 7) as t1
-> inner join train_user as t on t.user_id = t1.passenger_id;
+-----+-----+-----+-----+
| user_id | user_type | firstname | lastname |
+-----+-----+-----+-----+
| ADM_001 | ADMIN    | Narendra | Modi     |
+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

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)

Output:

```
MariaDB [peslug20cs450]> select t.user_id,t.user_type,t.firstname,t.lastname from(select passenger_id from ticket_details where departure='Bengaluru' and arrival='Chennai' EXCEPT select passenger_id from ticket_details where departure='Chennai' and arrival='Bengaluru') as k inner join train_user as t on k.passenger_id=t.user_id;
+-----+-----+-----+-----+
| user_id | user_type | firstname | lastname |
+-----+-----+-----+-----+
| USR_008 | PSGR     | Ajit     | Sethi    |
+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [peslug20cs450]> _
```