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## Week 7

- 1) MariaDB [cs621\_railway]> select user\_id, user\_type, firstname, lastname from train\_user u join ticket t on u.user\_id = t.passenger\_id where departure = 'Bengaluru' and arrival = 'Chennai' and travel\_date between '2021-10-01' and '2022-08-31';
- | user_id | user_type | firstname | lastname |
|---------|-----------|-----------|----------|
| ADM_001 | ADMIN     | Narendra  | Modi     |
| USR_008 | PSGR      | Ajit      | Sethi    |
- 2 rows in set (0.000 sec)
- 2) MariaDB [cs621\_railway]> select u.user\_id, user\_type, firstname, lastname  
-> from train\_user u, ticket t  
-> where t.Departure = 'Bengaluru' and t.Arrival = 'Chennai'  
-> and exists (select u.User\_ID, User\_Type, Firstname, Lastname from train\_user u, ticket t where t.Travel\_Date between '2022-08-01' and '2021-10-01');  
Empty set (0.000 sec)
- 3) MariaDB [cs621\_railway]> select user\_id, user\_type, firstname, lastname  
-> from train\_user u join ticket t on u.user\_id = t.passenger\_id  
-> where departure = 'Bengaluru' and arrival = 'Chennai' and travel\_date not between '2021-10-01' and '2021-10-31' and travel\_date between '2022-08-01' and '2022-08-31';
- | user_id | user_type | firstname | lastname |
|---------|-----------|-----------|----------|
| ADM_001 | ADMIN     | Narendra  | Modi     |
- 1 row in set (0.000 sec)
- 4) MariaDB [cs621\_railway]> select u1.user\_id, user\_Type, firstname, lastname  
-> from ticket as t1, train\_user as u1  
-> where t1.passenger\_id = u1.user\_id  
-> and t1.Departure = 'Bengaluru' and t1.Arrival = 'Chennai'  
-> and exists (select pnr from ticket AS t2 where t1.passenger\_id = t2.passenger\_id  
-> and t2.Departure = 'Chennai' and t2.Arrival = 'Bengaluru' and (datediff(t2.Travel\_Date, t1.Travel\_Date) between 0 and 7));
- | user_id | user_Type | firstname | lastname |
|---------|-----------|-----------|----------|
| ADM_001 | ADMIN     | Narendra  | Modi     |
- 1 row in set (0.000 sec)
- 5) MariaDB [cs621\_railway]> select u1.user\_id, user\_Type, firstname, lastname  
-> from ticket as t1, train\_user as u1  
-> where t1.passenger\_id = u1.user\_id  
-> and t1.Departure = 'Bengaluru' and t1.Arrival = 'Chennai'  
-> and exists (select pnr from ticket AS t2 where t1.passenger\_id = t2.passenger\_id  
-> and t2.Departure = 'Chennai' and t2.Arrival = 'Bengaluru' and (datediff(t2.Travel\_Date, t1.Travel\_Date) between 0 and 7));
- | user_id | user_Type | firstname | lastname |
|---------|-----------|-----------|----------|
| ADM_001 | ADMIN     | Narendra  | Modi     |
- 1 row in set (0.000 sec)
- 6) MariaDB [cs621\_railway]> select u1.user\_id, user\_type, firstname, lastname  
-> from ticket t1, train\_user u1  
-> where t1.passenger\_ID = u1.User\_ID  
-> and t1.Departure = 'Bengaluru' and t1.Arrival = 'Chennai'  
-> and not exists(select pnr from ticket t2 where t1.passenger\_ID = t2.passenger\_ID  
-> and t2.Departure = 'Chennai' and t2.Arrival = 'Bengaluru');
- | user_id | user_type | firstname | lastname |
|---------|-----------|-----------|----------|
| USR_008 | PSGR      | Ajit      | Sethi    |
- 1 row in set (0.001 sec)