

NESTED QUERY – PART 2

1. list all player who plays in virat kohalis (msd)team

```
mysql> select * from player where team_id=(select team_id from player where pname='msd');
+-----+-----+-----+-----+-----+-----+
| pid | pname | speciality | doj          | num_of_matches | team_id |
+-----+-----+-----+-----+-----+-----+
| 7   | MSD   | keeper     | 2004-01-01   | 289             | 101     |
| 19  | kartik | bowler      | 2008-10-01   | 199             | 101     |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.02 sec)
```

2. list all players who played matches in year 2024

```
mysql> select * from matches where year(mdate)=2024;
+-----+-----+-----+-----+-----+-----+
| mid | team1 | team2 | mdate       | winner | man_of_match |
+-----+-----+-----+-----+-----+-----+
| 10  | 102   | 101   | 2024-03-25  | 101    | 7            |
| 11  | 102   | 103   | 2024-03-27  | 103    | 18           |
| 12  | 103   | 101   | 2024-03-29  | 103    | 8            |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

3. list all matches in which man of the match is from team1

```
mysql> select * from matches m where man_of_match = (select pid from player p where p.team_id = m.team1);
+-----+-----+-----+-----+-----+-----+
| mid | team1 | team2 | mdate       | winner | man_of_match |
+-----+-----+-----+-----+-----+-----+
| 11  | 102   | 103   | 2024-03-27  | 103    | 18           |
| 12  | 103   | 101   | 2024-03-29  | 103    | 8            |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

3. list all matches in which man of the match is from team2

```
ERROR 1242 (21000): Subquery returns more than 1 row
mysql> select * from matches m where man_of_match = (select pid from player p where p.team_id = m.team2);
ERROR 1242 (21000): Subquery returns more than 1 row
mysql>
```

5. list all matches in which csk team win.

```
mysql> select * from matches where winner in (select tid from team where tname = 'csk');
+-----+-----+-----+-----+-----+-----+
| mid | team1 | team2 | mdate      | winner | man_of_match |
+-----+-----+-----+-----+-----+-----+
| 10 | 102 | 101 | 2024-03-25 | 101 | 7 |
+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

6. list all matches in which either csk or rcb team won the match

```
mysql> select * from matches where winner in (select tid from team where tname = 'csk' or tname = 'rcb');
+-----+-----+-----+-----+-----+-----+
| mid | team1 | team2 | mdate      | winner | man_of_match |
+-----+-----+-----+-----+-----+-----+
| 10 | 102 | 101 | 2024-03-25 | 101 | 7 |
| 11 | 102 | 103 | 2024-03-27 | 103 | 18 |
| 12 | 103 | 101 | 2024-03-29 | 103 | 8 |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

7. list all teams who one(won) atleast one match

```
mysql> select * from team t where exists (select winner from matches m where m.winner = t.tid);
+-----+-----+-----+
| tid | tname | player_num |
+-----+-----+-----+
| 101 | CSK | 15 |
| 103 | MI | 13 |
+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> select * from team t where not exists (select winner from matches m where m.winner = t.tid);
+-----+-----+-----+
| tid | tname | player_num |
+-----+-----+-----+
| 102 | RCB | 14 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

8. list all teams who does not played any match

```
mysql> select * from team t where not exists(select * from matches m where m.team1=t.tid) and not exists(select * from matches m2 where m2.team2=t.tid);
+-----+-----+-----+
| tid | tname | player_num |
+-----+-----+-----+
| 104 | GT | 0 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

9. list all team name, in which no players are their

```
mysql> select * from team where player_num = 0;
+-----+-----+-----+
| tid | tname | player_num |
+-----+-----+-----+
| 104 | GT    | 0          |
+-----+-----+-----+
1 row in set (0.00 sec)
```

10. list all players who are in dhoni's team

```
mysql> select * from player where team_id = (select team_id from player where pname='MSD');
+-----+-----+-----+-----+-----+-----+
| pid | pname | speciality | doj          | num_of_matches | team_id |
+-----+-----+-----+-----+-----+-----+
| 7   | MSD   | keeper     | 2004-01-01   | 289            | 101     |
| 19  | kartik | bowler     | 2008-10-01   | 199            | 101     |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

11. list all players who are in either dhoni's or virat's team

```
mysql> select * from player where team_id in (select team_id from player where pname in('MSD','VK'));
+-----+-----+-----+-----+-----+-----+
| pid | pname | speciality | doj          | num_of_matches | team_id |
+-----+-----+-----+-----+-----+-----+
| 7   | MSD   | keeper     | 2004-01-01   | 289            | 101     |
| 18  | vk     | batsman    | 2008-01-01   | 189            | 102     |
| 19  | kartik | bowler     | 2008-10-01   | 199            | 101     |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

12. find all team names who won more than 3 matches

```
mysql> select tname from team t where tid in(select winner from matches m group by winner having count(*)>=2);
+-----+
| tname |
+-----+
| MI    |
+-----+
1 row in set (0.00 sec)

mysql>
```