**SQL DAY 5 ASSIGNMENT   
PRATIKSHA TAMBE(243072)**

player (player\_id, pname, speciality, date\_ofjoining, num\_matches, team\_id)

team(team\_id, tname,player\_num)

matches(match\_id, team1\_id,team2\_id,match\_date,winner,man\_of\_the match)

**//Team Table**

create table team(

team\_id int primary key,

tname varchar(20),

player\_num int check(player\_num>0));

**//Player Table**

create table player(

player\_id int primary key,

pname varchar(20),

speciality enum('bowler','batsman','allrounder','wicketkeeper'),

date\_of\_joining date,

num\_matches int,

team\_id int,

constraint fr\_tid foreign key (team\_id) references team(team\_id)

on delete set null

on update cascade);

**//Matches Table**

create table matches(

match\_id int primary key,

team1\_id int,

team2\_id int,

match\_date date,

winner int,

man\_of\_the\_match int,

constraint fk\_t1id foreign key(team1\_id) references team(team\_id),

constraint fk\_t2id foreign key(team2\_id) references team(team\_id),

constraint fk\_mm foreign key(man\_of\_the\_match) references player(player\_id),

constraint chk\_win check(winner in(team1\_id,team2\_id))

);

**Team**

| **team\_id** | **tname** | **player\_num** |
| --- | --- | --- |
| 101 | CSK | 13 |
| 102 | RCB | 15 |

**Player**

| **player\_id** | **pname** | **speciality** | **date\_of\_joining** | **num\_matches** | **team\_id** |
| --- | --- | --- | --- | --- | --- |
| 7 | dhoni | wicketkeeper | 2004-02-01 | 289 | 101 |
| 18 | kohli | batsman | 2008-02-01 | 189 | 102 |
| 8 | jadeja | allrounder | 2006-10-01 | 199 | 101 |
| 19 | kartik | wicketkeeper | 2008-10-01 | 199 | 102 |

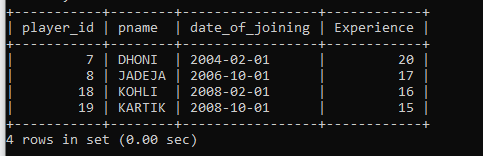
**Matches**

| **match\_id** | **team1\_id** | **team2\_id** | **match\_date** | **winner** | **man\_of\_the\_match** |
| --- | --- | --- | --- | --- | --- |
| 1 | 101 | 102 | 2024-03-25 | 102 | 7 |
| 2 | 102 | 101 | 2023-12-31 | 101 | 8 |
| 3 | 101 | 102 | 2024-03-18 | 102 | 7 |
| 4 | 102 | 101 | 2024-03-11 | 101 | 18 |

**simple query**

1. display all players playerid, player name and experience

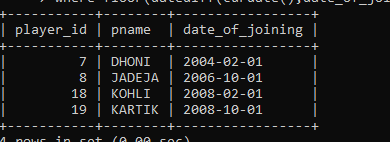
**select player\_id, pname, date\_of\_joining, floor(datediff(curdate(),date\_of\_joining)/365) "Experience" from player;**

****

2. display all player with experience > 5 years

**select player\_id, pname, date\_of\_joining from player**

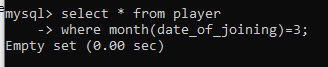
**-> where floor(datediff(curdate(),date\_of\_joining)/365)>5;**

****

3. display all players joined in march month, any year

**select \* from player**

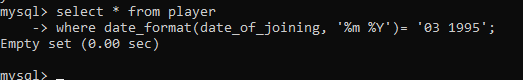
**-> where month(date\_of\_joining)=3;**

****

4. display all players joined in march 1995

**select \* from player**

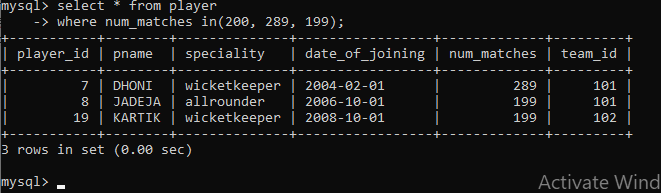
**-> where date\_format(date\_of\_joining, '%m %Y')= '03 1995';**

****

5. display all player with number of matches played are either 5 or 10 or 8

**select \* from player**

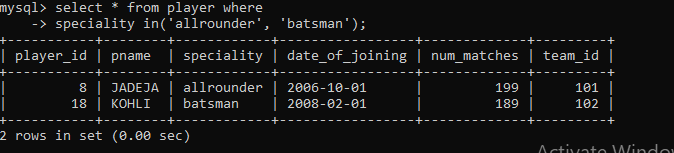
**-> where num\_matches in(200, 289, 199);**

****

6. display all players who are either batsman, bowler

**select \* from player where**

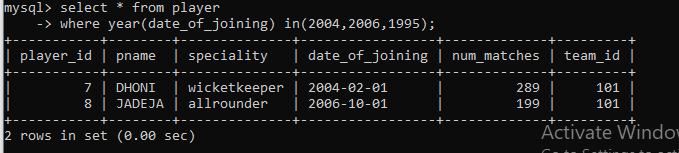
**-> speciality in('allrounder', 'batsman');**

****

7. display all employees who joined in year 1995 or 1996 or 1997

**select \* from player**

**-> where year(date\_of\_joining) in(2004,2006,1995);**

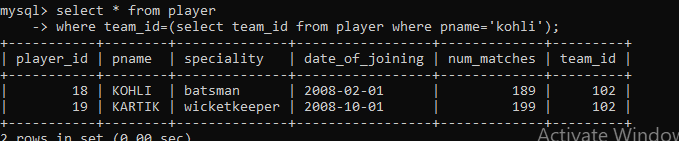
****

**Nested query**

1. list all player who plays in virat kohalis team

**select \* from player**

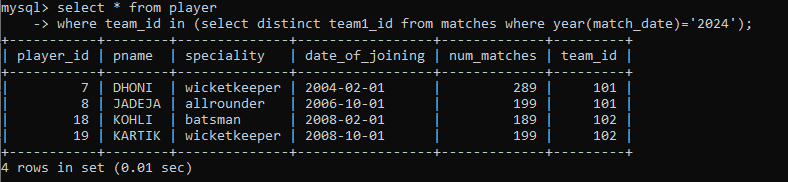
**-> where team\_id=(select team\_id from player where pname='kohli');**

****

2. list all players who played matches in year 2024

**select \* from player**

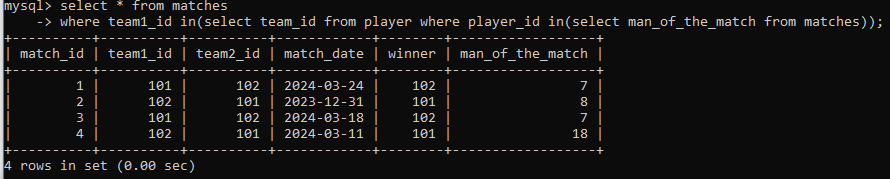
**-> where team\_id in (select distinct team1\_id from matches where year(match\_date)='2024');**

****

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

**select \* from matches**

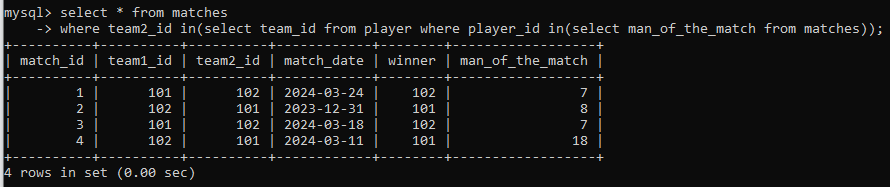
**-> where team1\_id in(select team\_id from player where player\_id in(select man\_of\_the\_match from matches));**

****

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

**select \* from matches**

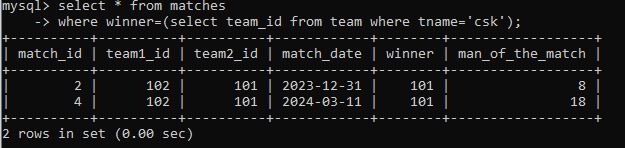
**-> where team2\_id in(select team\_id from player where player\_id in(select man\_of\_the\_match from matches));**

****

5. list all matches in which csk team win.

**select \* from matches**

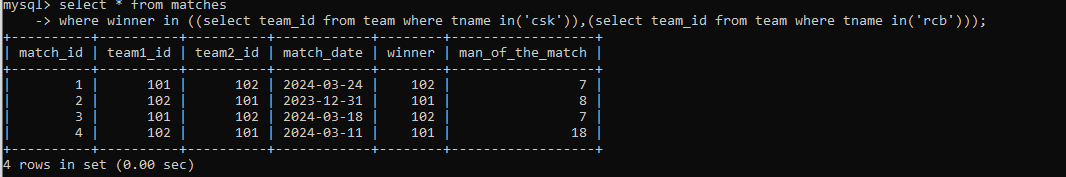
**-> where winner=(select team\_id from team where tname='csk');**

****

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

**select \* from matches**

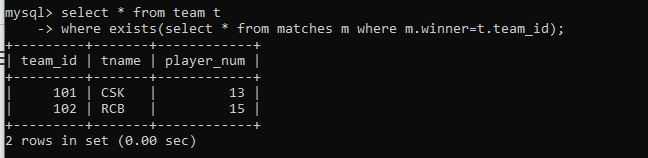
**-> where winner in ((select team\_id from team where tname in('csk')),(select team\_id from team where tname in('rcb')));**

****

7. list all teams who won atleast one match

**select \* from team t**

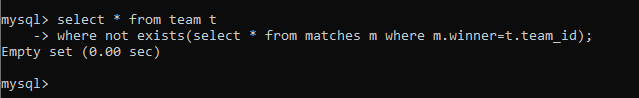
**-> where exists(select \* from matches m where m.winner=t.team\_id);**

****

8. list all teams who does not played any match

**select \* from team t**

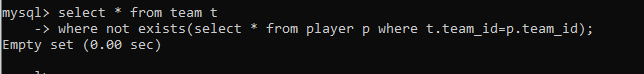
**where not exists(select \* from matches m where m.winner=t.team\_id);**



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

**select \* from team t**

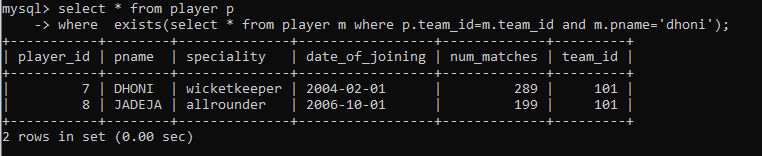
**where not exists(select \* from players p where t.team\_id=p.team\_id);**



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

**select \* from player p**

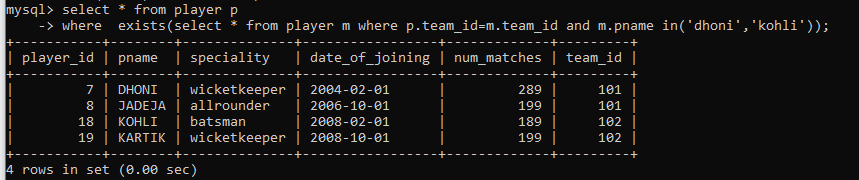
**-> where exists(select \* from player m where p.team\_id=m.team\_id and m.pname='dhoni');**

****

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

**select \* from player p**

**-> where exists(select \* from player m where p.team\_id=m.team\_id and m.pname in('dhoni','kohli'));**



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