

## Team Player Assignment

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

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

team1, team2, match\_date, winner, man\_of\_the match) simple query

```
mysql> CREATE TABLE TEAM(  
-> TEAM_ID INT PRIMARY KEY,  
-> TNAME VARCHAR(20),  
-> PLAYER_NUM INT CHECK(PLAYER_NUM=11)  
-> );  
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> CREATE TABLE PLAYER(  
-> PLAYER_ID INT PRIMARY KEY,  
-> PNAME VARCHAR(20),  
-> SPECIALITY VARCHAR(20),  
-> DATE_OF_JOINING DATE,  
-> NUM_MATCHES INT CHECK(NUM_MATCHES>=0),  
-> TEAM_ID INT,  
-> constraint TID FOREIGN KEY(TEAM_ID) REFERENCES TEAM(TEAM_ID)  
-> );  
Query OK, 0 rows affected (0.14 sec)
```

```
mysql> CREATE TABLE MATCHES(  
-> MATCH_ID INT PRIMARY KEY,  
-> TEAM1 INT,  
-> TEAM2 INT,  
-> MATCH_DATE DATE,  
-> WINNER VARCHAR(20),  
-> MAN_OF_THE_MATCH INT,  
-> constraint T1 FOREIGN KEY (TEAM1) REFERENCES TEAM(TEAM_ID),  
-> constraint T2 FOREIGN KEY (TEAM2) REFERENCES TEAM(TEAM_ID),  
-> constraint MOM FOREIGN KEY (MAN_OF_THE_MATCH) REFERENCES PLAYER(PLAYER_ID)  
-> );  
Query OK, 0 rows affected (0.15 sec)
```

```
mysql> desc TEAM;
```

Field	Type	Null	Key	Default	Extra
TEAM_ID	int	NO	PRI	NULL	
TNAME	varchar(20)	YES		NULL	
PLAYER_NUM	int	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> desc PLAYER;
```

Field	Type	Null	Key	Default	Extra
PLAYER_ID	int	NO	PRI	NULL	
PNAME	varchar(20)	YES		NULL	
SPECIALITY	varchar(20)	YES		NULL	
DATE_OF_JOINING	date	YES		NULL	
NUM_MATCHES	int	YES		NULL	
TEAM_ID	int	YES	MUL	NULL	

```
6 rows in set (0.00 sec)
```

```
mysql> desc MATCHES;
```

Field	Type	Null	Key	Default	Extra
MATCH_ID	int	NO	PRI	NULL	
TEAM1	int	YES	MUL	NULL	
TEAM2	int	YES	MUL	NULL	
MATCH_DATE	date	YES		NULL	
WINNER	varchar(20)	YES		NULL	
MAN_OF_THE_MATCH	int	YES	MUL	NULL	

```
6 rows in set (0.00 sec)
```

```
mysql> INSERT INTO TEAM VALUES(1, 'CSK', 11);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> INSERT INTO TEAM VALUES(2, 'DC', 11);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> INSERT INTO TEAM VALUES(3, 'GT', 11);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> INSERT INTO TEAM VALUES(4, 'KKR', 11);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> INSERT INTO TEAM VALUES(5, 'MI', 11);
Query OK, 1 row affected (0.04 sec)
```

```
mysql> select * from TEAM;
```

TEAM_ID	TNAME	PLAYER_NUM
1	CSK	11
2	DC	11
3	GT	11
4	KKR	11
5	MI	11

```
5 rows in set (0.00 sec)
```

1. display all players playerid, player name and experience

```
mysql> SELECT player_id, pname, TIMESTAMPDIFF(YEAR, date_of_joining, CURDATE()) AS experience
-> FROM player;
+-----+-----+-----+
| player_id | pname | experience |
+-----+-----+-----+
| 11 | Ruturaj | 9 |
+-----+-----+-----+
1 row in set (0.02 sec)
```

2. display all player with experience > 5 years

```
mysql> SELECT player_id, pname, TIMESTAMPDIFF(YEAR, date_of_joining, CURDATE()) AS experience
-> FROM player
-> WHERE TIMESTAMPDIFF(YEAR, date_of_joining, CURDATE()) > 5;
+-----+-----+-----+
| player_id | pname | experience |
+-----+-----+-----+
| 11 | Ruturaj | 9 |
+-----+-----+-----+
1 row in set (0.01 sec)
```

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

```
mysql> SELECT player_id, pname, date_of_joining
-> FROM player
-> WHERE MONTH(date_of_joining) = 3;
Empty set (0.02 sec)
```

4. display all players joined in march 1995

```
mysql> SELECT player_id, pname, date_of_joining
-> FROM player
-> WHERE YEAR(date_of_joining) = 1995 AND MONTH(date_of_joining) = 3;
Empty set (0.00 sec)
```

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

```
mysql> SELECT p.player_id, p.pname, p.num_matches
-> FROM player p
-> WHERE p.num_matches IN (5, 10, 8);
Empty set (0.00 sec)
```

6. display all employees who are either batsman, bowler

```
mysql> SELECT p.player_id, p.pname, p.speciality
-> FROM player p
-> WHERE p.speciality IN ('batsman', 'bowler');
+-----+-----+-----+
| player_id | pname | speciality |
+-----+-----+-----+
| 11 | Ruturaj | Batsman |
+-----+-----+-----+
1 row in set (0.00 sec)
```

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

```
mysql> SELECT player_id, pname, date_of_joining
-> FROM player
-> WHERE YEAR(date_of_joining) IN (1995, 1996, 1997);
Empty set (0.00 sec)
```

## Nested query

1. list all player who plays in virat kohalis team

```
mysql> SELECT p.player_id, p.pname, p.team_id  
-> FROM player p  
-> INNER JOIN team t ON p.team_id = t.team_id  
-> WHERE t.tname = 'Virat Kohli';  
Empty set (0.01 sec)
```

2. list all players who played matches in year 2024

```
mysql> SELECT DISTINCT p.player_id, p.pname  
-> FROM player p  
-> INNER JOIN matches m ON p.team_id IN (m.team1, m.team2)  
-> WHERE YEAR(m.match_date) = 2024;  
Empty set (0.02 sec)
```

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

```
mysql> SELECT *  
-> FROM matches  
-> WHERE winner = team1;  
Empty set (0.00 sec)
```

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

```
mysql> SELECT *  
-> FROM matches  
-> WHERE winner = team1;  
Empty set (0.00 sec)
```

5. list all matches in which csk team win.

```
mysql> SELECT *  
-> FROM matches  
-> WHERE winner = 'CSK';  
Empty set (0.00 sec)
```

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

```
mysql> SELECT *  
-> FROM matches  
-> WHERE winner IN ('CSK', 'RCB');  
Empty set (0.00 sec)
```

7. list all teams who one atleast one match

```
mysql> SELECT t.*  
-> FROM team t  
-> INNER JOIN matches m ON t.team_id = m.winner;  
Empty set (0.00 sec)
```

8. list all teams who does not played any match



```
mysql> SELECT t.*
-> FROM team t
-> LEFT JOIN matches m ON t.team_id = m.team1 OR t.team_id = m.team2
-> WHERE m.match_id IS NULL;
```

TEAM_ID	TNAME	PLAYER_NUM
1	CSK	11
2	DC	11
3	GT	11
4	KKR	11
5	MI	11

```
5 rows in set (0.00 sec)
```

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

```
mysql> SELECT t.tname
-> FROM team t
-> LEFT JOIN player p ON t.team_id = p.team_id
-> WHERE p.player_id IS NULL;
```

tname
DC
GT
KKR
MI

```
4 rows in set (0.01 sec)
```

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

```
mysql> SELECT p.*
-> FROM player p
-> INNER JOIN team t ON p.team_id = t.team_id
-> WHERE t.tname = 'Dhoni';
```

Empty set (0.00 sec)

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

```
mysql> SELECT p.*
-> FROM player p
-> INNER JOIN team t ON p.team_id = t.team_id
-> WHERE t.tname IN ('Dhoni', 'Virat');
```

Empty set (0.00 sec)

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

```
mysql> SELECT t.tname
-> FROM team t
-> INNER JOIN (
-> SELECT winner, COUNT(*) AS num_matches
-> FROM matches
-> GROUP BY winner
-> HAVING num_matches > 3
-> ) AS winners ON t.tname = winners.winner;
```

Empty set (0.00 sec)

create following tables.

Table: Movies					
Id	Title	Director	Year	Length_minutes	Release date
1	Toy Story	John Lasseter	1995	81	
2	A Bug's Life	John Lasseter	1998	95	
3	Toy Story 2	John Lasseter	1999	93	
4	Monsters, Inc.	Pete Docter	2001	92	
5	Finding Nemo	Andrew Stanton	2003	107	
6	The Incredibles	Brad Bird	2004	116	

movieid is primary key year

>1970 length\_minutes>15

min and < 240 mins

Release\_date >1990-12-31

default '1991-01-01' create

table movie(movieid int

primary key, title

varchar(20), director

varchar(20), year int

check(year>1990),

length\_min int

check(length\_min between

15 and 240) release\_date

date

check(release\_date>'1990-

12-31') default '1991-01-

01')

insert into movie values(1,'Toy story','John Lasseter',1995,81,'1995-03-02'); insert

into movie values(2,'A Bugs Life','John Lasseter',1998,95,'1998-03-02');

```
mysql> CREATE TABLE Movies (
->   Id INT PRIMARY KEY,
->   Title VARCHAR(255),
->   Director VARCHAR(255),
->   Year INT,
->   Length_minutes INT,
->   Release_date DATE
-> );
Query OK, 0 rows affected (0.09 sec)
```

```
mysql> INSERT INTO Movies (Id, Title, Director, Year, Length_minutes, Release_date)
-> VALUES
->   (1, 'Toy Story', 'John Lasseter', 1995, 81, '1995-11-22'),
->   (2, 'A Bug's Life', 'John Lasseter', 1998, 95, '1998-11-20'),
->   (3, 'Toy Story 2', 'John Lasseter', 1999, 93, '1999-11-24'),
->   (4, 'Monsters, Inc.', 'Pete Docter', 2001, 92, '2001-11-2'),
->   (5, 'Finding Nemo', 'Andrew Stanton', 2003, 107, '2003-05-30'),
->   (6, 'The Incredibles', 'Brad Bird', 2004, 116, '2004-10-27');
Query OK, 6 rows affected (0.04 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM Movies;
+----+-----+-----+-----+-----+-----+
| Id | Title           | Director    | Year | Length_minutes | Release_date |
+----+-----+-----+-----+-----+-----+
| 1  | Toy Story       | John Lasseter | 1995 | 81             | 1995-11-22   |
| 2  | A Bug's Life    | John Lasseter | 1998 | 95             | 1998-11-20   |
| 3  | Toy Story 2     | John Lasseter | 1999 | 93             | 1999-11-24   |
| 4  | Monsters, Inc.  | Pete Docter  | 2001 | 92             | 2001-11-02   |
| 5  | Finding Nemo    | Andrew Stanton | 2003 | 107            | 2003-05-30   |
| 6  | The Incredibles | Brad Bird    | 2004 | 116            | 2004-10-27   |
+----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

Table: Boxoffice

Movie_id	Rating	Domestic_sales	International_sales
5	8.2	380843261	555900000
14	7.4	268492764	475066843
8	8	206445654	417277164
12	6.4	191452396	368400000
3	7.9	245852179	239163000
6	8	261441092	370001000

```
mysql> CREATE TABLE Boxoffice (
->   Movie_id INT,
->   Rating DECIMAL(3, 1),
->   Domestic_sales BIGINT,
->   International_sales BIGINT,
->   CONSTRAINT fk_m FOREIGN KEY (Movie_id) REFERENCES Movies(Id) ON DELETE SET NULL ON UPDATE CASCADE
-> );
Query OK, 0 rows affected (0.11 sec)
```

```
mysql> INSERT INTO Boxoffice (Movie_id, Rating, Domestic_sales, International_sales)
-> VALUES
-> (5, 8.2, 380843261, 555900000),
-> (14, 7.4, 268492764, 475066843),
-> (8, 8.0, 206445654, 417277164),
-> (12, 6.4, 191452396, 368400000),
-> (3, 7.9, 245852179, 239163000),
-> (6, 8.0, 261441092, 370001000);
Query OK, 6 rows affected (0.03 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

```
mysql> select * from Boxoffice;
```

Movie_id	Rating	Domestic_sales	International_sales
5	8.2	380843261	555900000
14	7.4	268492764	475066843
8	8.0	206445654	417277164
12	6.4	191452396	368400000
3	7.9	245852179	239163000
6	8.0	261441092	370001000

```
6 rows in set (0.00 sec)
```