

```
mysql> use project;
Database changed
mysql> CREATE DATABASE SportsTournament;
Query OK, 1 row affected (0.10 sec)

mysql> USE SportsTournament;
Database changed
mysql>
mysql> -- TEAMS table
mysql> CREATE TABLE Teams (
  ->   TeamID INT PRIMARY KEY AUTO_INCREMENT,
  ->   TeamName VARCHAR(100) NOT NULL,
  ->   CoachName VARCHAR(100),
  ->   Region VARCHAR(100)
  -> );
Query OK, 0 rows affected (0.10 sec)

mysql>
mysql> -- PLAYERS table
mysql> CREATE TABLE Players (
  ->   PlayerID INT PRIMARY KEY AUTO_INCREMENT,
  ->   PlayerName VARCHAR(100),
  ->   TeamID INT,
  ->   Age INT,
  ->   Position VARCHAR(50),
  ->   FOREIGN KEY (TeamID) REFERENCES Teams(TeamID)
  -> );
Query OK, 0 rows affected (0.07 sec)

mysql>
mysql> -- MATCHES table
mysql> CREATE TABLE Matches (
  ->   MatchID INT PRIMARY KEY AUTO_INCREMENT,
  ->   MatchDate DATE,
  ->   Team1ID INT,
  ->   Team2ID INT,
  ->   WinnerTeamID INT,
  ->   Venue VARCHAR(100),
  ->   FOREIGN KEY (Team1ID) REFERENCES Teams(TeamID),
  ->   FOREIGN KEY (Team2ID) REFERENCES Teams(TeamID),
```



```
-> Team2ID INT,  
-> WinnerTeamID INT,  
-> Venue VARCHAR(100),  
-> FOREIGN KEY (Team1ID) REFERENCES Teams(TeamID),  
-> FOREIGN KEY (Team2ID) REFERENCES Teams(TeamID),  
-> FOREIGN KEY (WinnerTeamID) REFERENCES Teams(TeamID)  
-> );
```

Query OK, 0 rows affected (0.11 sec)

mysql>

mysql> -- STATS table

mysql> CREATE TABLE Stats (

```
-> StatID INT PRIMARY KEY AUTO_INCREMENT,  
-> PlayerID INT,  
-> MatchID INT,  
-> Runs INT,  
-> Wickets INT,  
-> FOREIGN KEY (PlayerID) REFERENCES Players(PlayerID),  
-> FOREIGN KEY (MatchID) REFERENCES Matches(MatchID)  
-> );
```

Query OK, 0 rows affected (0.09 sec)

mysql> -- Teams

mysql> INSERT INTO Teams (TeamName, CoachName, Region) VALUES

```
-> ('Mumbai Warriors', 'Ajay Dev', 'West'),  
-> ('Delhi Dragons', 'Ravi Kumar', 'North'),  
-> ('Chennai Kings', 'Mani Subramaniam', 'South');
```

Query OK, 3 rows affected (0.02 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql>

mysql> -- Players

mysql> INSERT INTO Players (PlayerName, TeamID, Age, Position) VALUES

```
-> ('Rohit Sharma', 1, 34, 'Batsman'),  
-> ('Virat Kohli', 2, 35, 'Batsman'),  
-> ('MS Dhoni', 3, 41, 'Wicket Keeper');
```

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql>

mysql> -- Matches

```
mysql> -- Matches
mysql> INSERT INTO Matches (MatchDate, Team1ID, Team2ID, WinnerTeamID, Venue) VALUES
-> ('2025-07-10', 1, 2, 2, 'Wankhede'),
-> ('2025-07-12', 3, 1, 3, 'Chepauk');
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql>
mysql> -- Stats
mysql> INSERT INTO Stats (PlayerID, MatchID, Runs, Wickets) VALUES
-> (1, 1, 45, 0),
-> (2, 1, 72, 1),
-> (3, 2, 55, 0);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select * from Teams;
+-----+-----+-----+-----+
| TeamID | TeamName      | CoachName      | Region |
+-----+-----+-----+-----+
| 1      | Mumbai Warriors | Ajay Dev       | West   |
| 2      | Delhi Dragons   | Ravi Kumar     | North  |
| 3      | Chennai Kings  | Mani Subramaniam | South  |
+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

```
mysql> select * from Players;
+-----+-----+-----+-----+-----+
| PlayerID | PlayerName    | TeamID | Age | Position      |
+-----+-----+-----+-----+-----+
| 1        | Rohit Sharma  | 1      | 34  | Batsman       |
| 2        | Virat Kohli   | 2      | 35  | Batsman       |
| 3        | MS Dhoni      | 3      | 41  | Wicket Keeper |
+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

```
mysql> select * from Matches;
+-----+-----+-----+-----+-----+-----+
| MatchID | MatchDate    | Team1ID | Team2ID | WinnerTeamID | Venue      |
+-----+-----+-----+-----+-----+-----+
| 1       | 2025-07-10   | 1       | 2       | 2             | Wankhede   |
+-----+-----+-----+-----+-----+-----+
```

```
mysql> select * from Matches;
```

MatchID	MatchDate	Team1ID	Team2ID	WinnerTeamID	Venue
1	2025-07-10	1	2	2	Wankhede
2	2025-07-12	3	1	3	Chepauk

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

```
mysql> select * from Stars;
ERROR 1146 (42S02): Table 'sportstournament.stars' doesn't exist
mysql> select * from stats;
```

StatID	PlayerID	MatchID	Runs	Wickets
1	1	1	45	0
2	2	1	72	1
3	3	2	55	0

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

```
mysql> SELECT MatchID, MatchDate, Venue,
->      T1.TeamName AS Team1,
->      T2.TeamName AS Team2,
->      TW.TeamName AS Winner
-> FROM Matches
-> JOIN Teams T1 ON Matches.Team1ID = T1.TeamID
-> JOIN Teams T2 ON Matches.Team2ID = T2.TeamID
-> JOIN Teams TW ON Matches.WinnerTeamID = TW.TeamID;
```

MatchID	MatchDate	Venue	Team1	Team2	Winner
2	2025-07-12	Chepauk	Chennai Kings	Mumbai Warriors	Chennai Kings
1	2025-07-10	Wankhede	Mumbai Warriors	Delhi Dragons	Delhi Dragons

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

```
mysql> SELECT T.TeamName, COUNT(*) AS Wins
-> FROM Matches M
-> JOIN Teams T ON M.WinnerTeamID = T.TeamID
```

2 rows in set (0.01 sec)

```
mysql> SELECT T.TeamName, COUNT(*) AS Wins
-> FROM Matches M
-> JOIN Teams T ON M.WinnerTeamID = T.TeamID
-> GROUP BY T.TeamName
-> ORDER BY Wins DESC;
```

TeamName	Wins
Delhi Dragons	1
Chennai Kings	1

2 rows in set (0.01 sec)

```
mysql> WITH PlayerAvg AS (
-> SELECT PlayerID, AVG(Runs) AS AvgRuns, AVG(Wickets) AS AvgWickets
-> FROM Stats
-> GROUP BY PlayerID
-> )
-> SELECT P.PlayerName, T.TeamName, AvgRuns, AvgWickets
-> FROM PlayerAvg A
-> JOIN Players P ON A.PlayerID = P.PlayerID
-> JOIN Teams T ON P.TeamID = T.TeamID;
```

PlayerName	TeamName	AvgRuns	AvgWickets
Rohit Sharma	Mumbai Warriors	45.0000	0.0000
Virat Kohli	Delhi Dragons	72.0000	1.0000
MS Dhoni	Chennai Kings	55.0000	0.0000

3 rows in set (0.01 sec)

```
mysql> CREATE VIEW TeamPerformance AS
-> SELECT T.TeamName, COUNT(M.MatchID) AS MatchesPlayed,
-> SUM(CASE WHEN T.TeamID = M.WinnerTeamID THEN 1 ELSE 0 END) AS MatchesWon
-> FROM Teams T
-> LEFT JOIN Matches M ON T.TeamID = M.Team1ID OR T.TeamID = M.Team2ID
-> GROUP BY T.TeamID;
```

Query OK, 0 rows affected (0.02 sec)

+-----+
2 rows in set (0.01 sec)

```
mysql> WITH PlayerAvg AS (  
-> SELECT PlayerID, AVG(Runs) AS AvgRuns, AVG(Wickets) AS AvgWickets  
-> FROM Stats  
-> GROUP BY PlayerID  
-> )  
-> SELECT P.PlayerName, T.TeamName, AvgRuns, AvgWickets  
-> FROM PlayerAvg A  
-> JOIN Players P ON A.PlayerID = P.PlayerID  
-> JOIN Teams T ON P.TeamID = T.TeamID;
```

PlayerName	TeamName	AvgRuns	AvgWickets
Rohit Sharma	Mumbai Warriors	45.0000	0.0000
Virat Kohli	Delhi Dragons	72.0000	1.0000
MS Dhoni	Chennai Kings	55.0000	0.0000

3 rows in set (0.01 sec)

```
mysql> CREATE VIEW TeamPerformance AS  
-> SELECT T.TeamName, COUNT(M.MatchID) AS MatchesPlayed,  
-> SUM(CASE WHEN T.TeamID = M.WinnerTeamID THEN 1 ELSE 0 END) AS MatchesWon  
-> FROM Teams T  
-> LEFT JOIN Matches M ON T.TeamID = M.Team1ID OR T.TeamID = M.Team2ID  
-> GROUP BY T.TeamID;
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> select * from TeamPerformance;
```

TeamName	MatchesPlayed	MatchesWon
Mumbai Warriors	2	0
Delhi Dragons	1	1
Chennai Kings	1	1

3 rows in set (0.01 sec)

```
mysql>
```



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