

DBMS Assignment -3

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Query 1 : Total runs by each player across all matches in descending order .

```
SELECT P.Name, SUM(PMS.Runs) AS Total_Runs
FROM Player P
JOIN Player_match_stats PMS ON P.ID = PMS.player_id
GROUP BY P.ID, P.Name
ORDER BY Total_Runs DESC;
```

Query 2 : Average strike rate of players in Test format in descending order .

```
SELECT P.Name, AVG(BS.Strike_rate) AS Avg_Strike_Rate
FROM Player P
JOIN has_batting_stats HBS ON P.ID = HBS.ID
JOIN Batting_stats BS ON HBS.Batting_id = BS.Batting_id
WHERE BS.Format = 'Test'
GROUP BY P.ID, P.Name
ORDER BY Avg_Strike_Rate DESC;
```

Query 3 : Get all the matches in a given tournament .

```
SELECT M.Match_id, M.Format, M.Date, M.Result, M.Score1,
M.Score2 , M.Umpire
FROM Tournament T
JOIN consists_of C ON T.tournament_id = C.tournament_id
JOIN `Match` M ON C.Match_id = M.Match_id
WHERE T.Name = 'ICC T20 World Cup';
```

Query 4 : Players with more than 1 century in any format

```
SELECT P.Name, BS.Format, BS.Hundreds
FROM Player P
JOIN has_batting_stats HBS ON P.ID = HBS.ID
JOIN Batting_stats BS ON HBS.Batting_id = BS.Batting_id
WHERE BS.Hundreds > 1;
```

Query 5 : Players who have taken at least 10 wickets in ODI format .

```
SELECT P.Name, BS.Wickets
FROM Player P
JOIN has_bowling_stats HBS ON P.ID = HBS.ID
JOIN Bowling_stats BS ON HBS.Bowling_id = BS.Bowling_id
WHERE BS.Format = 'ODI' AND BS.Wickets >= 10;
```

Query 6 : Captains with their team's total number of match wins .

```
SELECT P.Name AS Captain_Name, T.Team_Name,  
       COUNT(M.Match_id) AS Wins  
FROM Team T  
JOIN Player P ON T.Captain = P.Name  
JOIN `Match` M ON M.Result LIKE CONCAT(T.Team_Name, ' won%')  
GROUP BY P.Name, T.Team_Name  
ORDER BY Wins DESC;
```