Q4. Database task (25 points)

You have been given a cricket database of IPL 2022 that has already happened. It contains 3 tables. There are 10 teams in IPL 2022.

- 1- Summary Table, containing summary of each match of both teams.
- 2- Scoreboard, scoreboard of each match. There will be 22 columns for players, 2 columns for total run by each team, and 1 uniqueId column, so a total of 25 columns. (Hint: for player column consider value stored as string "playerId-runScored", e.x "11-64")
- 3- Players table, players basic information lets say name, age, playerId. This table contain only player who played IPL 2020

Write SQL/MongoDb query of below questions. You are free to include required columns in the above table required to form a query.

- 1) Write query to return top 4 team from 10 teams
 - 2) Highest run scored by each batsman. Output should contain name, playerId, highestRun.
 - 3) Which team has hit maximum sixes in the entire tournament. Hint: Use the summary table for this, it will contain sixes hit in each match.

1) Write query to return top 4 team from 10 teams

In Scoreboard table there is 2(two) columns for total run by each team and teamName

SELECT teamName, SUM(run) AS TotalRun FROM SCOREBOARD GROUP BY teamName ORDER BY TotalRun DESC LIMIT 4;

2) Highest run scored by each batsman

In scoreboard table there is 22 columns for players which contain player name, playerId-runScored and many more. From that above column name we can select name playerid and runscore by batsman. We can separate the "playerId-runScored" the column name using SUBSTRING_INDEX function for query.

SELECT name, SUBSTRING_INDEX(playerId-runScored,"-",1) AS playerId, MAX(SUBSTRING_INDEX(playerId-runScored,"-",-1) FROM SCOREBOARD GROUP BY SUBSTRING_INDEX(playerId-runScored,"-",1);

3) Which team has hit maximum sixes
In Summary table it contains columns like teamName, sixes of each team.

SELECT teamName, SUM(sixes) as totalSixes FROM SUMMARY GROUP BY teamName ORDER BY totalSixes DESC LIMIT 1;