CRICKET ANALYSIS

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1. Query to display all the matches and their outcomes in the data base:

```
select Match_ID, Start_Date, Country , Opposition, toss, bat, Result, margin, Ground

from odi_match_results

where Country < Opposition

order by Country, Opposition;
```

2. Query to display total matches, avg won, avr tied, avg no result, runs per match, wkts per match in Indian Stadiums:

```
SELECT SUM(Mat), AVG(won), AVG(tied), AVG(NR), Avg(Runs/Mat), AVG(Wkts/Mat)

FROM ground_averages

WHERE Ground LIKE "%India%";
```

3. Query to display a particular batsman, his country, his total sixes, his total fours, his total runs, his total centuries

```
SELECT wc_players.Player, wc_players.Country, SUM(batsman_data.4s) as Total_4s ,
SUM(batsman_data.6s) as Total_6s, SUM(batsman_data.runs) as Total_runs,
SUM(batsman_data.Runs>99) as Total_Centuries

from batsman_data

RIGHT join wc_players

on batsman_data.Player_ID = wc_players.ID

where wc_players.ID = (SELECT DISTINCT id from wc_players where Player LIKE "%Rohit
Sharma%");
```

4. Query to display a particular bowler, his country, his total_maiden spells, total wickets taken by him , his average economy, total overs bowled by him

```
SELECT wc_players.Player, wc_players.Country, SUM(bowler_data.Mdns) as Total_Maidens ,
```

SUM(bowler_data.Wkts) as Total_Wickets, AVG(bowler_data.Econ) as Average_Economy, SUM(bowler_data.Overs) as Total_Overs

from bowler_data

RIGHT join wc_players

on bowler_data.Player_ID = wc_players.ID

where wc_players.ID = (SELECT DISTINCT id from wc_players where Player LIKE "%Jasprit%");

5. Query to display player, his country, his opposition, his score, ground and margin with which the team has lost if the player had made more than 99 runs.

SELECT odi_match_results.Country, batsman_data.Opposition, batsman_data.Batsman, batsman_data.Runs, odi_match_results.Result, odi_match_results.Margin, batsman_data.Ground FROM batsman_data

RIGHT JOIN odi_match_results

on batsman_data.Match_ID = odi_match_results.Match_ID

WHERE batsman_data.Runs > 99 and odi_match_results.Result = "Lost";

6. Query to display player, his country, his opposition, wkts taken by him, ground and margin with which the team has lost if the player had taken wkts more than 3.

SELECT wc_players.Country, bowler_Data.Opposition, bowler_data.Bowler, bowler_data.wkts, odi_match_results.Result, odi_match_results.Margin, bowler_data.Ground

FROM bowler_data

RIGHT JOIN odi_match_results

on bowler_data.Match_ID = odi_match_results.Match_ID

RIGHT JOIN wc_players

on bowler_data.Player_ID = wc_players.ID

WHERE bowler_data.Wkts > 3 and odi_match_results.Result = "Lost";

7. Query to display top 10 bowlers with best economy with minimum 6 overs bowled in a match

SELECT bowler_data.Bowler, bowler_data.Econ

from bowler_data

where Econ IN (SELECT Econ   from bowler_data where Overs > 6 and Econ NOT IN(SELECT Econ FROM bowler_data where Econ = '-'))ORDER by Econ LIMIT 10;

8. Query to display top 10 batsman who have faced more than 30 balls in a match and have the highest SR

SELECT batsman_data.Batsman, batsman_data.SR

from batsman_data

where SR IN (SELECT SR   from batsman_data where BF > 30 and sr NOT IN(SELECT SR FROM batsman_data where BF = '-')) and SR > 100 ORDER by SR DESC LIMIT 10;

9. Query to display country and the numbers of matches the won in desc order

SELECT country, COUNT(Result) as MAX_WIN from odi_match_results where Result = 'Won' and Country="India"

UNION

SELECT country, COUNT(Result) as MAX_WIN from odi_match_results where Result = 'Won' and Country="Australia"

UNION

SELECT country, COUNT(Result) as MAX_WIN from odi_match_results where Result = 'Won'

and Country="WestIndies"

UNION

SELECT country, COUNT(Result) as MAX_WIN from odi_match_results where Result = 'Won' and Country="Pakistan"

UNION

SELECT country, COUNT(Result) as MAX_WIN from odi_match_results where Result = 'Won' and Country="Bangladesh"

UNION

SELECT country, COUNT(Result) as MAX_WIN from odi_match_results where Result = 'Won' and Country="SriLanka"

UNION

SELECT country, COUNT(Result) as MAX_WIN from odi_match_results where Result = 'Won' and Country="England"

UNION

SELECT country, COUNT(Result) as MAX_WIN from odi_match_results where Result = 'Won' and Country="Afghanistan"

UNION

SELECT country, COUNT(Result) as MAX_WIN from odi_match_results where Result = 'Won' and Country="SouthAfrica"

UNION

SELECT country, COUNT(Result) as MAX_WIN from odi_match_results where Result = 'Won' and Country="Newzealad"

ORDER BY MAX_WIN DESC;

10. Display the player name,and the score the team made whenever opposition was India?

SELECT wc_players.Player, batsman_data.runs

FROM wc_players INNER JOIN batsman_data

ON wc_players.ID = batsman_data.Player_ID

and batsman_data.Opposition LIKE '%india%';

11. Display the name of the players in ascending order,runs and the ground name who had scored runs in the ground in kolkata?

SELECT wc_players.player,batsman_data.runs,ground_averages.ground

from wc_players,batsman_data,ground_averages

where wc_players.id=batsman_data.player_id

and

ground_averages.Ground LIKE '%kolkata%'

GROUP BY wc_players.Player;

12. Display the bowler name,wickets and economy of the bowler in a match opposition team has scored more than 450 runs?

select bowler,wkts,Econ

FROM bowler_data where Match_ID =

  (SELECT Match_ID

  FROM odi_match_totals

  WHERE score > 450)

13. Display the ground name and margin where margin of loss for a team was more than 100 runs?

SELECT COUNT(Margin), Ground

FROM odi_match_results

GROUP BY COUNTRY HAVING COUNT(Margin) > 100;

14. Display the bowler name who had taken the most no of wickets in a single match against a opposition during world cup of 2019?

SELECT bowler_data.Bowler,max(bowler_data.wkts) AS Highest_Wickets,bowler_data.Opposition

  FROM bowler_data,wc_players

  WHERE bowler_data.Player_ID=wc_players.ID

  AND bowler_data.Start_Date LIKE '%2019%';

15. Write a query to list all the ODI matches won by Indian against Pakistan

SELECT * FROM `odi_match_totals` WHERE Country="India" AND (Result="won" AND Opposition="v Pakistan")

16. Write a query to display the matches where Aaron Finch scored atleast 1 six and 2 fours.

SELECT * FROM `batsman_data` WHERE Batsman="Aaron Finch" AND (4s>=2 AND 6s>0);

17. Write a query to display the bowler name and player_id where SR value is not NULL.

SELECT Player_ID, Bowler FROM `bowler_data` WHERE SR IS NOT NULL;

18. Write a query to count all the duplicate values from the column "Player_id" from the table batsman data.

SELECT Player_ID, COUNT(Player_ID) FROM batsman_data GROUP BY Player_ID HAVING COUNT(Player_ID) > 1;

19. Write a MySQL query to find the player and ID of the player that contains the character "E" in it from the table wc_players.

SELECT Player, ID FROM wc_players WHERE Player LIKE '%e%';

20. Write a query to display the number of matches played by each cricketer from the table batsman_data.

SELECT Batsman, COUNT(Batsman) FROM batsman_data GROUP BY Batsman HAVING COUNT(Batsman) > 1;

21. Write a query to display mdns and runs where sr is greater than 15.6 and order by start_date.

SELECT mdns,Runs

from bowler_data WHERE SR>15.6

OR Opposition="India" ORDER by(Start_Date);

22. Write a query to display overs and runs where runs are maximum using max function.

SELECT Overs,Runs

FROM bowler_data

WHERE Runs =

(SELECT MAX(Runs)

FROM bowler_data);

23. Query to display Match_ID, Country, start_date, overs, Runs, SR, Wkts, Ave, Result and margin using EquiJoin between two tables

```sql
SELECT bowler_data.Match_ID,odi_match_results.Country,
odi_match_results.Start_Date, bowler_data.Overs, bowler_data.Runs,

bowler_data.SR,

bowler_data.Wkts,

bowler_data.Ave,

odi_match_results.Result,

odi_match_results.Margin

FROM bowler_data,odi_match_results;
```