

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 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;
```

18. 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);
```

19. 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);
```

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

```
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;
```