**SQL Assignment – Evening Session**

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Batch – 2 (Bangalore)

For Cricket world cup Database we have selected 3 tables –

1. Players
2. Match\_Played / Points Table
3. Matches

Here Player store the player data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| P\_Id | P\_Name | P\_Type | Runs\_Scored | Wicket\_Taken | Match\_Played | Team\_Name |
| int | Varchar(20) | Varchar(20) | int | int | int | int |

P\_Id : Player ID

P\_name : Player Name

P\_type : Batsman / Bowler

Runs\_Scored : Runs scored by player

Wicket\_Taken : Wicket taken by player

Match\_Played : Matches played by player

Team\_Name: Name of Team Player plays for

Assumptions

1. Players do not play all the matches played by the team
2. If player is a batsman / bowler he can do both of the following in case of extreme situation

Match\_Played acts like the points table for the

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| T\_id | Team\_Name | M\_played | M\_won | Total\_Runs | Total\_Wicket |
| Int | Varchar(20) | int | int | int | int |

T\_id : Team Id

Team\_Name : Team name

M\_played : Matches played

M\_Won : Matches won

Total\_Runs : Total runs scored by the team

Total\_Wickets: Total Wickets taken by the team

Match Table stores the score of each match

|  |  |  |  |
| --- | --- | --- | --- |
| M\_id | T\_id | Runs | Wickets |
| Int | Int | Int | int |

M\_id : Match Id

T\_id : Team Id (Foreign Key from Match\_Played Table)

Runs : Runs scored in each match

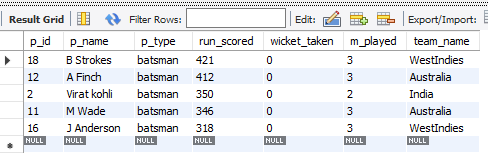
Wickets: Wickets taken in each match

Output of the Queries

Query a: Create sample data in all the tables.

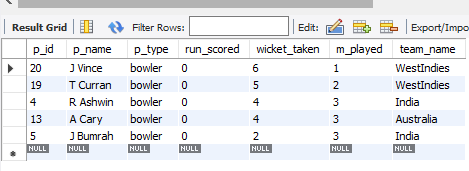
Query b: Fetch the top 5 batsmen who scored the maximum runs.

select \* from players where p\_type='batsman' order by run\_scored desc limit 5;



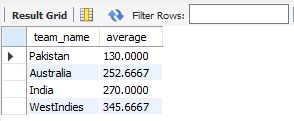
Query c: Fetch the top 5 bowlers who has taken the maximum wickets.

select \* from players where p\_type='bowler' order by wicket\_taken desc limit 5;



Query d: Fetch the average score scored by each team considering the matches played.

select team\_name, total\_runs/m\_played as average from match\_table order by total\_runs/m\_played;



Query e: Increase the scores of each batsmen in the team, which has the least average computed in Step 6, by 10 runs.

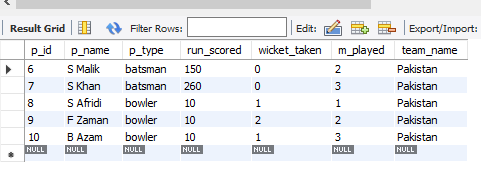
Since Pakistan has the lowest average hence we update Pakistan’s data

SET SQL\_SAFE\_UPDATES = 0;

update players set run\_scored = run\_scored + 10 where team\_name =

( select team\_name from match\_table order by total\_runs/m\_played asc limit 1);

select \* from players where team\_name = 'Pakistan';



Query f: Create a procedure which takes country as the input and gives the highest score of the country up to date, as output

DELIMITER $$

drop procedure if exists highest\_score$$

create procedure highest\_score(team\_name\_input varchar(50), out highestScore int)

begin

select max(runs\_scored\_in\_match) into highestScore from matches join match\_table on matches.t\_id = match\_table.t\_id where match\_table.team\_name = team\_name\_input;

end$$

DELIMITER ;

call highest\_score('India',@highestScore);

select @highestScore;

