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**1. Create sample data in all the tables.**

```
create table teams(  
    t_id varchar(3),  
    team_name varchar(20),  
    total_runs int,  
    total_wickets int,  
    matches_played int,  
    primary key (t_id)  
);
```

-- Inserted Default/initial values to the table

```
insert into teams(t_id, team_name) values ('IND' , 'India');  
insert into teams(t_id, team_name) values ('AUS' , 'Australia');  
insert into teams(t_id, team_name) values ('ENG' , 'England');  
insert into teams(t_id, team_name) values ('NZ' , 'New Zealand');  
insert into teams(t_id, team_name) values ('RSA' , 'South Africa');
```

```
SELECT * FROM teams order by total_runs desc;
```

```
UPDATE teams SET total_runs=987, total_wickets=22, matches_played = 4 WHERE  
t_id="IND";  
UPDATE teams SET total_runs=871, total_wickets=30, matches_played = 4 WHERE  
t_id="AUS";  
UPDATE teams SET total_runs=812, total_wickets=21, matches_played = 4 WHERE  
t_id="ENG";  
UPDATE teams SET total_runs=953, total_wickets=19, matches_played = 4 WHERE  
t_id="NZ";  
UPDATE teams SET total_runs=854, total_wickets=23, matches_played = 4 WHERE  
t_id="RSA";
```

```
create table points_table(  
    t_id varchar(3),  
    team_rank int unique not null,  
    matches_played int,  
    matches_won int,  
    matches_lost int,  
    primary key(t_id),  
    foreign key(t_id) references teams(t_id)  
);
```

```

INSERT INTO points_table VALUES('IND', 1, 4, 3, 1);
INSERT INTO points_table VALUES('NZ', 2, 4, 3, 1);
INSERT INTO points_table VALUES('RSA', 3, 4, 3, 1);
INSERT INTO points_table VALUES('ENG', 4, 4, 1, 3);
INSERT INTO points_table VALUES('AUS', 5, 4, 0, 4);

```

```

SELECT * FROM points_table ORDER BY team_rank;

```

```

create table worldcup_timetable(
    match_id int not null auto_increment,
    match_date date,
    t1_id varchar(3),
    t2_id varchar(3),
    winning_t_id varchar(3),
    t1_score int,
    t2_score int,
    primary key(match_id)
);

```

```

INSERT INTO worldcup_timetable (match_date, t1_id, t2_id, t1_score, t2_score,
winning_t_id) VALUES ('2021-01-10', 'IND', 'AUS', 205, 173, 'IND');
INSERT INTO worldcup_timetable (match_date, t1_id, t2_id, t1_score, t2_score,
winning_t_id) VALUES ('2021-01-11', 'NZ', 'ENG', 241, 201, 'NZ');
INSERT INTO worldcup_timetable (match_date, t1_id, t2_id, t1_score, t2_score,
winning_t_id) VALUES ('2021-01-12', 'IND', 'RSA', 262, 243, 'IND');
INSERT INTO worldcup_timetable (match_date, t1_id, t2_id, t1_score, t2_score,
winning_t_id) VALUES ('2021-01-13', 'AUS', 'NZ', 217, 250, 'NZ');
INSERT INTO worldcup_timetable (match_date, t1_id, t2_id, t1_score, t2_score,
winning_t_id) VALUES ('2021-01-14', 'ENG', 'RSA', 220, 222, 'RSA');
INSERT INTO worldcup_timetable (match_date, t1_id, t2_id, t1_score, t2_score,
winning_t_id) VALUES ('2021-01-15', 'IND', 'NZ', 183, 262, 'NZ');
INSERT INTO worldcup_timetable (match_date, t1_id, t2_id, t1_score, t2_score,
winning_t_id) VALUES ('2021-01-16', 'AUS', 'ENG', 233, 234, 'ENG');
INSERT INTO worldcup_timetable (match_date, t1_id, t2_id, t1_score, t2_score,
winning_t_id) VALUES ('2021-01-17', 'RSA', 'NZ', 210, 200, 'RSA');
INSERT INTO worldcup_timetable (match_date, t1_id, t2_id, t1_score, t2_score,
winning_t_id) VALUES ('2021-01-18', 'IND', 'ENG', 325, 157, 'IND');
INSERT INTO worldcup_timetable (match_date, t1_id, t2_id, t1_score, t2_score,
winning_t_id) VALUES ('2021-01-19', 'AUS', 'RSA', 179, 248, 'RSA');

```

```

SELECT * FROM worldcup_timetable;

```

```

CREATE TABLE player(
    p_id int,
    t_id varchar(3),
    p_name varchar(50),
    matches_played int,
    runs_scored int,
    wickets_taken int,
    primary key(p_id),
    foreign key(t_id) references teams(t_id)
);

```

```

insert into player values(18, 'IND', 'Virat Kohli', 4, 237, 0);
insert into player values(45, 'IND', 'Rohit Sharma', 4, 251, 0);
insert into player values(93, 'IND', 'Jasprit Bumrah', 4, 10, 5);
insert into player values(8, 'ENG', 'Stuart Broad', 4, 27, 4);
insert into player values(17, 'ENG', 'Jos Buttler', 4, 214, 0);
insert into player values(55, 'ENG', 'Ben Stokes', 4, 197, 4);
insert into player values(49, 'AUS', 'Steve Smith', 4, 206, 1);
insert into player values(4, 'AUS', 'Pat Cummins', 4, 39, 5);
insert into player values(5, 'AUS', 'David Warner', 4, 249, 0);
insert into player values(16, 'NZ', 'Kane Williamson', 4, 255, 0);
insert into player values(36, 'NZ', 'Trent Boult', 4, 20, 6);
insert into player values(87, 'NZ', 'Tim Siefert', 4, 192, 0);
insert into player values(79, 'RSA', 'AB de Villiers', 4, 245, 0);
insert into player values(171, 'RSA', 'Kagiso Rabada', 4, 21, 5);
insert into player values(123, 'RSA', 'Quinton de Kock', 4, 219, 0);

```

```

SELECT * FROM player WHERE t_id = 'ENG';

```

## 2. Fetch the top 5 batsmen who scored the maximum runs.

```

SELECT * FROM player ORDER BY runs_scored DESC LIMIT 5;

```

p_id	t_id	p_name	matches_played	runs_scored	wickets_taken
16	NZ	Kane Williamson	4	255	0
45	IND	Rohit Sharma	4	251	0
5	AUS	David Warner	4	249	0
79	RSA	AB de Villiers	4	245	0
18	IND	Virat Kohli	4	237	0
NULL	NULL	NULL	NULL	NULL	NULL

**3. Fetch the top 5 bowlers who have taken the maximum wickets.**

```
SELECT * FROM player ORDER BY wickets_taken DESC LIMIT 5;
```

p_id	t_id	p_name	matches_played	runs_scored	wickets_taken
36	NZ	Trent Boult	4	20	6
4	AUS	Pat Cummins	4	39	5
93	IND	Jasprit Bumrah	4	10	5
171	RSA	Kagiso Rabada	4	21	5
8	ENG	Stuart Broad	4	27	4
NULL	NULL	NULL	NULL	NULL	NULL

**4. Fetch the average score scored by each team considering the matches played.**

```
SELECT t_id AS TEAM, total_runs/matches_played AS AVERAGE  
FROM teams  
GROUP BY team_name  
ORDER BY AVERAGE DESC;
```

TEAM	AVERAGE
IND	246.7500
NZ	238.2500
AUS	217.7500
RSA	213.5000
ENG	203.0000

**5. Increase the scores of each batsmen in the team, which has the least average computed in the above step, by 10 runs.**

For getting the team with least average:

```
SELECT *, total_runs/matches_played AS AVERAGE  
FROM teams  
WHERE total_runs/matches_played <= ALL (SELECT total_runs/matches_played  
FROM teams);
```

t_id	team_name	total_runs	total_wickets	matches_played	AVERAGE
ENG	England	812	21	4	203.0000

Before updating the values:

p_id	t_id	p_name	matches_played	runs_scored	wickets_taken
8	ENG	Stuart Broad	4	27	4
17	ENG	Jos Buttler	4	214	0
55	ENG	Ben Stokes	4	197	4
NULL	NULL	NULL	NULL	NULL	NULL

For increasing the values of team with least average:

```
UPDATE player SET runs_scored = runs_scored + 10
WHERE t_id = (SELECT t_id
              FROM teams
              WHERE total_runs/matches_played <= ALL (SELECT
total_runs/matches_played FROM teams));
```

After Updating:

p_id	t_id	p_name	matches_played	runs_scored	wickets_taken
8	ENG	Stuart Broad	4	37	4
17	ENG	Jos Buttler	4	224	0
55	ENG	Ben Stokes	4	207	4
NULL	NULL	NULL	NULL	NULL	NULL

**6. 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 HighestScore$$
```

```
CREATE PROCEDURE HighestScore(country VARCHAR(3), OUT highest INT)
```

```
BEGIN
```

```
    SELECT MAX(IF(t1_id = country, t1_score, t2_score)) INTO highest FROM
worldcup_timetable WHERE match_id IN (SELECT match_id FROM worldcup_timetable
WHERE t1_id = country OR t2_id = country);
```

```
END$$
```

```
DELIMITER ;
```

```
CALL highestScore('IND', @highest);
```

```
SELECT @highest AS HighestScore;
```

	HighestScore
▶	325