

Problem 3252: Premier League Table Ranking II

Problem Information

Difficulty: **Medium**

Acceptance Rate: 55.45%

Paid Only: Yes

Tags: Database

Problem Description

Table: `TeamStats`

```
+-----+-----+ | Column Name | Type | +-----+-----+ | team_id | int | |
team_name | varchar | | matches_played | int | | wins | int | | draws | int | | losses | int |
+-----+-----+ team_id is the unique key for this table. This table contains team id,
team name, matches_played, wins, draws, and losses.
```

Write a solution to calculate the **points**, **position**, and **tier** for each team in the league. Points are calculated as follows:

* `3` points for a **win** * `1` point for a **draw** * `0` points for a **loss**

Note: Teams with the same points must be assigned the same position.

Tier ranking:

* Divide the league into `3` tiers based on points: * Tier 1: Top `33%` of teams * Tier 2: Middle `33%` of teams * Tier 3: Bottom `34%` of teams * In case of **ties** at **tier boundaries**, place tied teams in the **higher tier**.

Return the result table ordered by **points** in **descending** order and then by **team_name** in **ascending** order.

The query result format is in the following example.

Example:

****Input:****

`TeamStats` table:

team_id	team_name	matches_played	wins	draws	losses
1	Chelsea	22	13	2	7
2	Nottingham Forest	27	6	6	15
3	Liverpool	17	1	8	8
4	Aston Villa	20	1	6	13
5	Fulham	31	18	1	12
6	Burnley	26	6	9	11
7	Newcastle United	33	11	10	12
8	Sheffield United	20	18	2	0
9	Luton Town	5	4	0	1
10	Everton	14	2	6	6

****Output:****

team_name	points	position	tier
Sheffield United	56	1	Tier 1
Fulham	55	2	Tier 1
Newcastle United	43	3	Tier 1
Chelsea	41	4	Tier 1
Burnley	27	5	Tier 2
Nottingham Forest	24	6	Tier 2
Everton	12	7	Tier 2
Luton Town	12	7	Tier 2
Liverpool	11	9	Tier 3
Aston Villa	9	10	Tier 3

****Explanation:****

* Sheffield United has 56 points (18 wins * 3 points + 2 draws * 1 point) and is in position 1. * Fulham has 55 points (18 wins * 3 points + 1 draw * 1 point) and is in position 2. * Newcastle United has 43 points (11 wins * 3 points + 10 draws * 1 point) and is in position 3. * Chelsea has 41 points (13 wins * 3 points + 2 draws * 1 point) and is in position 4. * Burnley has 27 points (6 wins * 3 points + 9 draws * 1 point) and is in position 5. * Nottingham Forest has 24 points (6 wins * 3 points + 6 draws * 1 point) and is in position 6. * Everton and Luton Town both have 12 points, with Everton having 2 wins * 3 points + 6 draws * 1 point, and Luton Town having 4 wins * 3 points. Both teams share position 7. * Liverpool has 11 points (1 win * 3 points + 8 draws * 1 point) and is in position 9. * Aston Villa has 9 points (1 win * 3 points + 6 draws * 1 point) and is in position 10.

****Tier Calculation:****

* ****Tier 1:**** The top 33% of teams based on points. Sheffield United, Fulham, Newcastle United, and Chelsea fall into Tier 1. * ****Tier 2:**** The middle 33% of teams. Burnley, Nottingham Forest, Everton, and Luton Town fall into Tier 2. * ****Tier 3:**** The bottom 34% of teams. Liverpool and Aston Villa fall into Tier 3.

Code Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

PostgreSQL:

```
-- Write your PostgreSQL query statement below
```