Problem 3246: Premier League Table Ranking

Problem Information

Difficulty: Easy
Acceptance Rate: 79.55%
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** and **rank** 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 rank.

Return _the result table ordered by_ `points` _in **descending** ,** ** 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 | Manchester City | 10 | 6 | 2 | 2 | | 2 | Liverpool | 10 | 6 | 2 | 2 | | 3 | Chelsea | 10 | 5 | 3 | 2 | | 4 | Arsenal | 10 | 4 | 4 | 2 | | 5 | Tottenham | 10 | 3 | 5 | 2 | +---------+----------------+---------------+------+-------+--------+

Output:

+---------+----------------+--------+----------+ | team_id | team_name | points | position | +---------+----------------+--------+----------+ | 2 | Liverpool | 20 | 1 | | 1 | Manchester City | 20 | 1 | | 3 | Chelsea | 18 | 3 | | 4 | Arsenal | 16 | 4 | | 5 | Tottenham | 14 | 5 | +---------+----------------+--------+----------+

Explanation:

* Manchester City and Liverpool both have 20 points (6 wins * 3 points + 2 draws * 1 point), so they share position 1. * Chelsea has 18 points (5 wins * 3 points + 3 draws * 1 point) and is position 3rd. * Arsenal has 16 points (4 wins * 3 points + 4 draws * 1 point) and is position 4th. * Tottenham has 14 points (3 wins * 3 points + 5 draws * 1 point) and is position 5th.

The output table is ordered by points in descending order, then by team_name in ascending order.

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
```