

Problem 3322: Premier League Table Ranking III

Problem Information

Difficulty: Medium

Acceptance Rate: 69.84%

Paid Only: Yes

Tags: Database

Problem Description

Table: `SeasonStats`

+-----+-----+ | Column Name | Type | +-----+-----+ | season_id | int || team_id | int | | team_name | varchar | | matches_played | int | | wins | int | | draws | int || losses | int | | goals_for | int | | goals_against | int | +-----+-----+ (season_id, team_id) is the unique key for this table. This table contains season id, team id, team name, matches played, wins, draws, losses, goals scored (goals_for), and goals conceded (goals_against) for each team in each season.

Write a solution to calculate the **points** , **goal difference** , and **position **for **each team** in **each season**. The position ranking should be determined as follows:

* Teams are first ranked by their total points (highest to lowest)
* If points are tied, teams are then ranked by their goal difference (highest to lowest)
* If goal difference is also tied, teams are then ranked alphabetically by team name

Points are calculated as follows:

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

Goal difference is calculated as: `goals_for - goals_against`

Return _the result table ordered by_ `season_id` _in**ascending** order, then by_ position _in**ascending** order, and finally by_ `team_name` _in**ascending** order._

The query result format is in the following example.

****Example:****

****Input:****

`SeasonStats` table:

season_id	team_id	team_name	matches_played	wins	draws	losses	goals_for	goals_against
2021	1	Manchester City	38	29	6	3	99	26
2021	2	Liverpool	38	28	8	2	94	26
2021	3	Chelsea	38	21	11	6	76	33
2021	4	Tottenham	38	22	5	11	69	40
2021	5	Arsenal	38	22	3	13	61	48
2022	1	Manchester City	38	28	5	5	94	33
2022	2	Arsenal	38	26	6	6	88	43
2022	3	Manchester United	38	23	6	9	58	43
2022	4	Newcastle	38	19	14	5	68	33
2022	5	Liverpool	38	19	10	9	75	47

****Output:****

season_id	team_id	team_name	points	goal_difference	position
2021	1	Manchester City	93	73	1
2021	2	Liverpool	92	68	2
2021	3	Chelsea	74	43	3
2021	4	Tottenham	71	29	4
2021	5	Arsenal	69	13	5
2022	1	Manchester City	89	61	1
2022	2	Arsenal	84	45	2
2022	3	Manchester United	75	15	3
2022	4	Newcastle	71	35	4
2022	5	Liverpool	67	28	5

****Explanation:****

* For the 2021 season: * Manchester City has 93 points ($29 * 3 + 6 * 1$) and a goal difference of 73 ($99 - 26$). * Liverpool has 92 points ($28 * 3 + 8 * 1$) and a goal difference of 68 ($94 - 26$). * Chelsea has 74 points ($21 * 3 + 11 * 1$) and a goal difference of 43 ($76 - 33$). * Tottenham has 71 points ($22 * 3 + 5 * 1$) and a goal difference of 29 ($69 - 40$). * Arsenal has 69 points ($22 * 3 + 3 * 1$) and a goal difference of 13 ($61 - 48$). * For the 2022 season: * Manchester City has 89 points ($28 * 3 + 5 * 1$) and a goal difference of 61 ($94 - 33$). * Arsenal has 84 points ($26 * 3 + 6 * 1$) and a goal difference of 45 ($88 - 43$). * Manchester United has 75 points ($23 * 3 + 6 * 1$) and a goal difference of 15 ($58 - 43$). * Newcastle has 71 points ($19 * 3 + 14 * 1$) and a goal difference of 35 ($68 - 33$). * Liverpool has 67 points ($19 * 3 + 10 * 1$) and a goal difference of 28 ($75 - 47$). * The teams are ranked first by points, then by goal difference, and finally by

team name. * The output is ordered by season_id ascending, then by rank ascending, and finally by team_name ascending.

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
```