

3322. Premier League Table Ranking III Premium

Medium

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[SQL Schema](#) > [Pandas Schema](#) >

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 **rank** for **each team in each season**. The 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 `rank` 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.

Seen this question in a real interview before? 1/5

- Yes
- No

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