

Problem List

DescriptionAcceptedEditorialSolutionsSubmissions

3252. Premier League Table Ranking II

Premium

MediumTopics

SQL SchemaPandas Schema

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 rankings:

- 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**, 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	1
6	Burnley	26	6	9	11
7	Newcastle United	33	11	10	1
8	Sheffield United	20	18	2	6
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

PandasAuto

```
1 import pandas as pd
2
3
4 def calculate_team_tiers(team_stats: pd.DataFrame) -> pd.DataFrame:
5
6     # Function used in 3) below
7     def find_tier(percentile):
8         if percentile <= cell(team_stats.position.quantile(.33)):
9             return 'Tier 1'
10        if percentile <= cell(team_stats.position.quantile(.66)):
11            return 'Tier 2'
12        return 'Tier 3'
13
14    # 1) Determine team points
15    team_stats['points'] = 3 * team_stats.wins + team_stats.draws
16
17    # 2) Determine team position
18    team_stats['position'] = team_stats.points.rank(
19        method = 'min', ascending = 0)
20
21    # 3) Determine tier using function above
22    team_stats['Tier'] = team_stats.position.apply(find_tier)
23
24    # 4) Sort rows and reorder columns
```

TestcaseTest Result

AcceptedRuntime: 229 ms

Case 1

Input

TeamStats =

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

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

Yes No

Accepted 1,816 / 3.3K | Acceptance Rate 55.6%

Topics

Discussion (5)

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10 5

0 Online

4	Aston Villa	20	1	6	13
5	Nottingham Forest	14	10	4	14