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## 3252. Premier League Table Ranking II

Medium Topics

**SQL Schema** > **Pandas 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 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	1
3	Liverpool	17	1	8	8
4	Aston Villa	20	1	6	1
5	Fulham	31	18	1	1
6	Burnley	26	6	9	1
7	Newcastle United	33	11	10	1
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 ( $18 \text{ wins} * 3 \text{ points} + 2 \text{ draws} * 1 \text{ point}$ ) and is in position 1.
- Fulham has 55 points ( $18 \text{ wins} * 3 \text{ points} + 1 \text{ draw} * 1 \text{ point}$ ) and is in position 2.
- Newcastle United has 43 points ( $11 \text{ wins} * 3 \text{ points} + 10 \text{ draws} * 1 \text{ point}$ ) and is in position 3.
- Chelsea has 41 points ( $13 \text{ wins} * 3 \text{ points} + 2 \text{ draws} * 1 \text{ point}$ ) and is in position 4.
- Burnley has 27 points ( $6 \text{ wins} * 3 \text{ points} + 9 \text{ draws} * 1 \text{ point}$ ) and is in position 5.
- Nottingham Forest has 24 points ( $6 \text{ wins} * 3 \text{ points} + 6 \text{ draws} * 1 \text{ point}$ ) 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 ( $1 \text{ win} * 3 \text{ points} + 8 \text{ draws} * 1 \text{ point}$ ) and is in position 9.
- Aston Villa has 9 points ( $1 \text{ win} * 3 \text{ points} + 6 \text{ draws} * 1 \text{ point}$ ) 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**

```

import pandas as pd
# Function used in 3) below
def find_tier(percentile):
    if percentile <= ceil(team_stats.position.quantile(.33)):
        return 'Tier 1'
    if percentile <= ceil(team_stats.position.quantile(.66)):
        return 'Tier 2'
    return 'Tier 3'

# 1) Determine team points
team_stats['points'] = 3 * team_stats.wins + team_stats.draws

# 2) Determine team position
team_stats['position'] = team_stats.points.rank(
    method = 'min', ascending = 0)

# 3) Determine tier using function above
team_stats['tier'] = team_stats.position.apply(find_tier)

# 4) Sort rows and reorder columns

```

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**Testcase** **Test Result**

Accepted Runtime: 229 ms

**Case 1**

**Input:**

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team_id	team_name	matches_played	wins	draws	losses
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**Output:**

team_name	points	position	tier
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Seen this question in a real interview before? 1/5

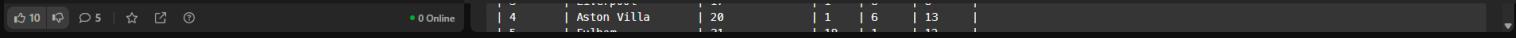
Yes  No

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

Topics

Discussion (5)

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4	Aston Villa	20	1	6	13	
5	Barcelona	21	10	12	14	