

# Problem 3246: Premier League Table Ranking

## Problem Information

Difficulty: Easy

Acceptance Rate: 0.00%

Paid Only: No

## 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
```

### Oracle:

```
/* Write your PL/SQL query statement below */
```

### Pandas:

```
import pandas as pd

def calculate_team_standings(team_stats: pd.DataFrame) -> pd.DataFrame:
```

## Solutions

### MySQL Solution:

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