

Problem 1841: League Statistics

Problem Information

Difficulty: **Medium**

Acceptance Rate: 53.51%

Paid Only: Yes

Tags: Database

Problem Description

Table: `Teams`

+-----+-----+ | Column Name | Type | +-----+-----+ | team_id | int | |
team_name | varchar | +-----+-----+ team_id is the column with unique values for
this table. Each row contains information about one team in the league.

Table: `Matches`

+-----+-----+ | Column Name | Type | +-----+-----+ | home_team_id | int
| | away_team_id | int | | home_team_goals | int | | away_team_goals | int |
+-----+-----+ (home_team_id, away_team_id) is the primary key (combination of
columns with unique values) for this table. Each row contains information about one match.
home_team_goals is the number of goals scored by the home team. away_team_goals is the
number of goals scored by the away team. The winner of the match is the team with the
higher number of goals.

Write a solution to report the statistics of the league. The statistics should be built using the
played matches where the **winning** team gets **three points** and the **losing** team gets
no points. If a match ends with a **draw**, both teams get **one point**.

Each row of the result table should contain:

* `team_name` \- The name of the team in the `Teams` table. * `matches_played` \- The
number of matches played as either a home or away team. * `points` \- The total points the
team has so far. * `goal_for` \- The total number of goals scored by the team across all
matches. * `goal_against` \- The total number of goals scored by opponent teams against this

team across all matches. * `goal_diff` \- The result of `goal_for` - `goal_against`.

Return the result table ordered by `points` ****in descending order****. If two or more teams have the same `points`, order them by `goal_diff` ****in descending order****. If there is still a tie, order them by `team_name` in ****lexicographical order****.

The result format is in the following example.

****Example 1:****

```
**Input:** Teams table: +-----+-----+ | team_id | team_name | +-----+-----+ | 1 |
Ajax | | 4 | Dortmund | | 6 | Arsenal | +-----+-----+ Matches table:
+-----+-----+-----+-----+ | home_team_id | away_team_id |
home_team_goals | away_team_goals | +-----+-----+-----+-----+
| 1 | 4 | 0 | 1 | | 1 | 6 | 3 | 3 | | 4 | 1 | 5 | 2 | | 6 | 1 | 0 | 0 |
+-----+-----+-----+-----+ **Output:**
+-----+-----+-----+-----+-----+ | team_name |
matches_played | points | goal_for | goal_against | goal_diff |
+-----+-----+-----+-----+-----+ | Dortmund | 2 | 6 | 6 | 2 | 4 | |
Arsenal | 2 | 2 | 3 | 3 | 0 | | Ajax | 4 | 2 | 5 | 9 | -4 |
+-----+-----+-----+-----+-----+ **Explanation:** Ajax
(team_id=1) played 4 matches: 2 losses and 2 draws. Total points = 0 + 0 + 1 + 1 = 2.
Dortmund (team_id=4) played 2 matches: 2 wins. Total points = 3 + 3 = 6. Arsenal
(team_id=6) played 2 matches: 2 draws. Total points = 1 + 1 = 2. Dortmund is the first team in
the table. Ajax and Arsenal have the same points, but since Arsenal has a higher goal_diff
than Ajax, Arsenal comes before Ajax in the table.
```

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
```

