

# 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
```

