

Problem 1212: Team Scores in Football Tournament

Problem Information

Difficulty: **Medium**

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Teams

+-----+-----+ | Column Name | Type | +-----+-----+ | team_id | int | |
team_name | varchar | +-----+-----+ team_id is the column with unique values of
this table. Each row of this table represents a single football team.

Table:

Matches

+-----+-----+ | Column Name | Type | +-----+-----+ | match_id | int | |
host_team | int | | guest_team | int | | host_goals | int | | guest_goals | int |
+-----+-----+ match_id is the column of unique values of this table. Each row is a
record of a finished match between two different teams. Teams host_team and guest_team
are represented by their IDs in the Teams table (team_id), and they scored host_goals and
guest_goals goals, respectively.

You would like to compute the scores of all teams after all matches. Points are awarded as follows:

A team receives

three points

if they win a match (i.e., Scored more goals than the opponent team).

A team receives

one point

if they draw a match (i.e., Scored the same number of goals as the opponent team).

A team receives

no points

if they lose a match (i.e., Scored fewer goals than the opponent team).

Write a solution that selects the

team_id

,

team_name

and

num_points

of each team in the tournament after all described matches.

Return the result table ordered by

num_points

in decreasing order

. In case of a tie, order the records by

team_id

in increasing order

.

The result format is in the following example.

Example 1:

Input:

```
Teams table: +-----+-----+ | team_id | team_name | +-----+-----+ | 10 |
Leetcode FC | | 20 | NewYork FC | | 30 | Atlanta FC | | 40 | Chicago FC | | 50 | Toronto FC |
+-----+-----+ Matches table:
+-----+-----+-----+-----+-----+ | match_id | host_team |
guest_team | host_goals | guest_goals |
+-----+-----+-----+-----+-----+ | 1 | 10 | 20 | 3 | 0 | | 2 | 30 | 10 | 2
| 2 | | 3 | 10 | 50 | 5 | 1 | | 4 | 20 | 30 | 1 | 0 | | 5 | 50 | 30 | 1 | 0 |
+-----+-----+-----+-----+-----+
```

Output:

```
+-----+-----+-----+ | team_id | team_name | num_points |
+-----+-----+-----+ | 10 | Leetcode FC | 7 | | 20 | NewYork FC | 3 | | 50 |
Toronto FC | 3 | | 30 | Atlanta FC | 1 | | 40 | Chicago FC | 0 |
+-----+-----+-----+
```

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 team_scores(teams: pd.DataFrame, matches: pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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