

Problem 3390: Longest Team Pass Streak

Problem Information

Difficulty: Hard

Acceptance Rate: 40.14%

Paid Only: Yes

Tags: Database

Problem Description

Table: `Teams`

+-----+-----+ | Column Name | Type | +-----+-----+ | player_id | int | |
team_name | varchar | +-----+-----+ player_id is the unique key for this table. Each
row contains the unique identifier for player and the name of one of the teams participating in
that match.

Table: `Passes`

+-----+-----+ | Column Name | Type | +-----+-----+ | pass_from | int | |
time_stamp | varchar | | pass_to | int | +-----+-----+ (pass_from, time_stamp) is the
unique key for this table. pass_from is a foreign key to player_id from Teams table. Each row
represents a pass made during a match, time_stamp represents the time in minutes
(00:00-90:00) when the pass was made, pass_to is the player_id of the player receiving the
pass.

Write a solution to find the **longest successful pass streak** for **each team** during the match. The rules are as follows:

* A successful pass streak is defined as consecutive passes where: * Both the `pass_from` and `pass_to` players belong to the same team * A streak breaks when either: * The pass is intercepted (received by a player from the opposing team)

Return the result table ordered by `team_name` in **ascending** order.

The result format is in the following example.

****Example:****

****Input:****

Teams table:

```
+-----+-----+ | player_id | team_name | +-----+-----+ | 1 | Arsenal | | 2 | Arsenal  
| | 3 | Arsenal | | 4 | Arsenal | | 5 | Chelsea | | 6 | Chelsea | | 7 | Chelsea | | 8 | Chelsea |  
+-----+-----+
```

Passes table:

```
+-----+-----+-----+ | pass_from | time_stamp | pass_to |  
+-----+-----+-----+ | 1 | 00:05 | 2 | | 2 | 00:07 | 3 | | 3 | 00:08 | 4 | | 4 | 00:10 | 5 | | 6 |  
00:15 | 7 | | 7 | 00:17 | 8 | | 8 | 00:20 | 6 | | 6 | 00:22 | 5 | | 1 | 00:25 | 2 | | 2 | 00:27 | 3 |  
+-----+-----+-----+
```

****Output:****

```
+-----+-----+ | team_name | longest_streak | +-----+-----+ | Arsenal | 3  
| | Chelsea | 4 | +-----+-----+
```

****Explanation:****

* ****Arsenal**** 's streaks: * First streak: 3 passes (1->2->3->4) ended when player 4 passed to Chelsea's player 5 * Second streak: 2 passes (1->2->3) * Longest streak = 3 * ****Chelsea**** 's streaks: * First streak: 3 passes (6->7->8->6->5) * Longest streak = 4

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
```