

Problem 2173: Longest Winning Streak

Problem Information

Difficulty: Hard

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Matches

+-----+-----+ | Column Name | Type | +-----+-----+ | player_id | int | | match_day | date | | result | enum | +-----+-----+ (player_id, match_day) is the primary key
(combination of columns with unique values) for this table. Each row of this table contains the ID of a player, the day of the match they played, and the result of that match. The result column is an ENUM (category) type of ('Win', 'Draw', 'Lose').

The

winning streak

of a player is the number of consecutive wins uninterrupted by draws or losses.

Write a solution to count the longest winning streak for each player.

Return the result table in

any order

The result format is in the following example.

Example 1:

Input:

Matches table: +-----+-----+-----+ | player_id | match_day | result |
+-----+-----+-----+ | 1 | 2022-01-17 | Win | | 1 | 2022-01-18 | Win | | 1 | 2022-01-25 |
Win | | 1 | 2022-01-31 | Draw | | 1 | 2022-02-08 | Win | | 2 | 2022-02-06 | Lose | | 2 | 2022-02-08
| Lose | | 3 | 2022-03-30 | Win | +-----+-----+-----+

Output:

+-----+-----+ | player_id | longest_streak | +-----+-----+ | 1 | 3 | | 2 | 0 ||
3 | 1 | +-----+-----+

Explanation:

Player 1: From 2022-01-17 to 2022-01-25, player 1 won 3 consecutive matches. On 2022-01-31, player 1 had a draw. On 2022-02-08, player 1 won a match. The longest winning streak was 3 matches.

Player 2: From 2022-02-06 to 2022-02-08, player 2 lost 2 consecutive matches. The longest winning streak was 0 matches.

Player 3: On 2022-03-30, player 3 won a match. The longest winning streak was 1 match.

Follow up:

If we are interested in calculating the longest streak without losing (i.e., win or draw), how will your solution change?

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 longest_winning_streak(matches: pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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