

# Problem 1783: Grand Slam Titles

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 0.00%

**Paid Only:** No

## Problem Description

Table:

Players

+-----+-----+ | Column Name | Type | +-----+-----+ | player\_id | int | |  
player\_name | varchar | +-----+-----+ player\_id is the primary key (column with  
unique values) for this table. Each row in this table contains the name and the ID of a tennis  
player.

Table:

Championships

+-----+-----+ | Column Name | Type | +-----+-----+ | year | int | | Wimbledon  
| int | | Fr\_open | int | | US\_open | int | | Au\_open | int | +-----+-----+ year is the  
primary key (column with unique values) for this table. Each row of this table contains the IDs  
of the players who won one each tennis tournament of the grand slam.

Write a solution to report the number of grand slam tournaments won by each player. Do not  
include the players who did not win any tournament.

Return the result table in

any order

.

The result format is in the following example.

Example 1:

Input:

```
Players table: +-----+-----+ | player_id | player_name | +-----+-----+ | 1 |
Nadal | | 2 | Federer | | 3 | Novak | +-----+-----+ Championships table:
+-----+-----+-----+-----+-----+ | year | Wimbledon | Fr_open | US_open | Au_open
| +-----+-----+-----+-----+-----+ | 2018 | 1 | 1 | 1 | 1 | | 2019 | 1 | 1 | 2 | 2 | | 2020 | 2 |
1 | 2 | 2 | +-----+-----+-----+-----+-----+
```

Output:

```
+-----+-----+-----+ | player_id | player_name | grand_slams_count |
+-----+-----+-----+ | 2 | Federer | 5 | | 1 | Nadal | 7 |
+-----+-----+-----+
```

Explanation:

Player 1 (Nadal) won 7 titles: Wimbledon (2018, 2019), Fr\_open (2018, 2019, 2020), US\_open (2018), and Au\_open (2018). Player 2 (Federer) won 5 titles: Wimbledon (2020), US\_open (2019, 2020), and Au\_open (2019, 2020). Player 3 (Novak) did not win anything, we did not include them in the result 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
```

**Oracle:**

```
/* Write your PL/SQL query statement below */
```

### **Pandas:**

```
import pandas as pd

def grand_slam_titles(players: pd.DataFrame, championships: pd.DataFrame) ->
pd.DataFrame:
```

## **Solutions**

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