

Problem 2991: Top Three Wineries

Problem Information

Difficulty: **Hard**

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Wineries

+-----+-----+ | Column Name | Type | +-----+-----+ | id | int | | country |
varchar | | points | int | | winery | varchar | +-----+-----+ id is column of unique values
for this table. This table contains id, country, points, and winery.

Write a solution to find the

top three wineries

in

each

country

based on their

total points

. If

multiple wineries

have the

same

total points, order them by

winery

name in

ascending

order. If there's

no second winery

, output 'No second winery,' and if there's

no third winery

, output 'No third winery.'

Return

the result table ordered by

country

in

ascending

order

.

The result format is in the following example.

Example 1:

Input:

```
Wineries table: +-----+-----+-----+-----+ | id | country | points | winery |
+-----+-----+-----+-----+ | 103 | Australia | 84 | WhisperingPines | | 737 |
Australia | 85 | GrapesGalore | | 848 | Australia | 100 | HarmonyHill | | 222 | Hungary | 60 |
MoonlitCellars | | 116 | USA | 47 | RoyalVines | | 124 | USA | 45 | Eagle'sNest | | 648 | India |
69 | SunsetVines | | 894 | USA | 39 | RoyalVines | | 677 | USA | 9 | PacificCrest |
+-----+-----+-----+-----+
```

Output:

```
+-----+-----+-----+-----+ | country | top_winery |
second_winery | third_winery | +-----+-----+-----+-----+ |
Australia | HarmonyHill (100) | GrapesGalore (85) | WhisperingPines (84) | | Hungary |
MoonlitCellars (60) | No second winery | No third winery | | India | SunsetVines (69) | No
second winery | No third winery | | USA | RoyalVines (86) | Eagle'sNest (45) | PacificCrest (9) |
+-----+-----+-----+-----+
```

Explanation

For Australia - HarmonyHill Winery accumulates the highest score of 100 points in Australia. - GrapesGalore Winery has a total of 85 points, securing the second-highest position in Australia. - WhisperingPines Winery has a total of 80 points, ranking as the third-highest. For Hungary - MoonlitCellars is the sole winery, accruing 60 points, automatically making it the highest. There is no second or third winery. For India - SunsetVines is the sole winery, earning 69 points, making it the top winery. There is no second or third winery. For the USA - RoyalVines Wines accumulates a total of $47 + 39 = 86$ points, claiming the highest position in the USA. - Eagle'sNest has a total of 45 points, securing the second-highest position in the USA. - PacificCrest accumulates 9 points, ranking as the third-highest winery in the USA
Output table is ordered by country in ascending order.

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 top_three_wineries(wineries: pd.DataFrame) -> pd.DataFrame:
```

Solutions

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