

# Problem 1294: Weather Type in Each Country

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 0.00%

**Paid Only:** No

## Problem Description

Table:

Countries

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

Table:

Weather

+-----+-----+ | Column Name | Type | +-----+-----+ | country\_id | int || weather\_state | int | | day | date | +-----+-----+ (country\_id, day) is the primary key (combination of columns with unique values) for this table. Each row of this table indicates the weather state in a country for one day.

Write a solution to find the type of weather in each country for

November 2019

The type of weather is:

Cold

if the average

weather\_state

is less than or equal

15

,

Hot

if the average

weather\_state

is greater than or equal to

25

, and

Warm

otherwise.

Return the result table in

any order

.

The result format is in the following example.

Example 1:

Input:

Countries table:

			country_id	country_name		
2   USA	3   Australia	7   Peru	5   China	8   Morocco	9   Spain	

Weather table:

			country_id	
+-----+ weather_state   day   +-----+	+-----+   2   15   2019-11-01	2   12	2019-10-28	2   12   2019-10-27
3   -2   2019-11-10	3   0   2019-11-11	3   3	2019-11-12	5   16   2019-11-07
5   18   2019-11-09	5   21   2019-11-23	7   25	2019-11-28	7   22   2019-12-01
5   21   2019-11-23	8   25   2019-11-05	8   27	2019-11-15	8   31   2019-11-25
8   31   2019-11-25	9   7   2019-10-23	9   3   2019-12-23		

Output:

		country_name	weather_type	
+-----+   USA	Cold	Australia	Cold	Peru   Hot
Peru   Hot	Morocco   Hot	China   Warm		

Explanation:

Average weather\_state in USA in November is  $(15) / 1 = 15$  so weather type is Cold. Average weather\_state in Australia in November is  $(-2 + 0 + 3) / 3 = 0.333$  so weather type is Cold. Average weather\_state in Peru in November is  $(25) / 1 = 25$  so the weather type is Hot. Average weather\_state in China in November is  $(16 + 18 + 21) / 3 = 18.333$  so weather type is Warm. Average weather\_state in Morocco in November is  $(25 + 27 + 31) / 3 = 27.667$  so weather type is Hot. We know nothing about the average weather\_state in Spain in November so we do not include it 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 weather_type(countries: pd.DataFrame, weather: pd.DataFrame) ->
    pd.DataFrame:
```

## Solutions

**MySQL Solution:**

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