Problem 1294: Weather Type in Each Country

Problem Information

Difficulty: Easy
Acceptance Rate: 66.93%
Paid Only: Yes
Tags: Database

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
7	20	2019-12-02
8	25	2019-11-05
8	27	2019-11-15
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
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 Austraila 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
```