

1294. Weather Type in Each Country Premium

EasyTopicsCompanies

SQL Schema > Pandas Schema >

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 to 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.

Seen this question in a real interview before? 1/5

YesNo

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