

1294. Weather Type in Each Country

Premium

Solved

EasyTopicsCompanies

SQL SchemaPandas 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 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

Accepted 39.4KSubmissions 59.1KAcceptance Rate 66.7%

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</> Code

MySQLAuto

```
1 # Write your MySQL query statement below
2
3 SELECT c.country_name, avg_weather.weather_type
4 FROM Countries as c
5 JOIN
6 (SELECT country_id, AVG(weather_state) as "avg_weather",
7 CASE
8     WHEN AVG(weather_state) <= 15 THEN "Cold"
9     WHEN AVG(weather_state) >= 25 THEN "Hot"
10    ELSE "Warm"
11 END as weather_type
12 FROM Weather
13 WHERE day BETWEEN "2019-11-01" AND "2019-11-30"
14 GROUP BY country_id) as avg_weather
15 ON c.country_id = avg_weather.country_id;
16
```

Saved

Ln 7, Col 6

TestcaseTest Result

USA	Cold
Australia	Cold
Peru	Hot
China	Warm
Morocco	Hot

Expected

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

