

Medium

Table Person:

Column Name	Type
id	int
name	varchar
phone_number	varchar

id is the column of unique values for this table.

Each row of this table contains the name of a person and their phone number.

Phone number will be in the form 'xxx-yyyyyyy' where xxx is the country code (3 characters) and yyyyyyy is the phone number (7 characters) where x and y are digits. Both can contain leading zeros.

Table Country:

Column Name	Type
name	varchar
country_code	varchar

country_code is the column of unique values for this table.

Each row of this table contains the country name and its code. country_code will be in the form 'xxx' where x is digits.

Table Calls:

Column Name	Type
caller_id	int
callee_id	int
duration	int

This table may contain duplicate rows.

Each row of this table contains the caller id, callee id and the duration of the call in minutes. caller_id != callee_id

A telecommunications company wants to invest in new countries. The company intends to invest in the countries where the average call duration of the calls in this country is strictly greater than the global average call duration.

Write a solution to find the countries where this company can invest.

Return the result table in **any order**.

The result format is in the following example.

Example 1:

Input:

Person table:

id	name	phone_number
3	Jonathan	051-1234567
12	Elvis	051-7654321
1	Moncef	212-1234567
2	Maroua	212-6523651
7	Meir	972-1234567
9	Rachel	972-0011100

Country table:

name	country_code
Peru	051
Israel	972
Morocco	212
Germany	049
Ethiopia	251

Calls table:

caller_id	callee_id	duration
1	9	33
2	9	4
1	2	59
3	12	102
3	12	330
12	3	5
7	9	13
7	1	3
9	7	1
1	7	7

Output:

country
Peru

Explanation:

The average call duration for Peru is $(102 + 102 + 330 + 330 + 5 + 5) / 6 = 145.666667$

The average call duration for Israel is $(33 + 4 + 13 + 13 + 3 + 1 + 1 + 7) / 8 = 9.37500$

The average call duration for Morocco is $(33 + 4 + 59 + 59 + 3 + 7) / 6 = 27.5000$

Global call duration average = $(2 * (33 + 4 + 59 + 102 + 330 + 5 + 13 + 3 + 1 + 7)) / 20 = 55.70000$

Since Peru is the only country where the average call duration is greater than the global average, it is the only recommended country.

Write your MySQL query statement below

WITH CTE

```
AS (SELECT caller_id AS id,duration
FROM Calls
UNION ALL
SELECT callee_id AS C_id,duration
FROM Calls),
```

CTE2

```
AS (SELECT id,c.name AS country
FROM Person p, Country c
```

```
WHERE left(p.phone_number,3)=c.country_code  
)
```

```
SELECT country  
FROM CTE  
JOIN CTE2 USING (id)  
GROUP BY country  
HAVING AVG(duration)> (SELECT AVG(duration)  
FROM Calls);
```