

585. Investments in 2016

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SQL Schema >

Table: Insurance

Column Name	Type
pid	int
tiv_2015	float
tiv_2016	float
lat	float
lon	float

pid is the primary key column for this table.
Each row of this table contains information about one policy where:
pid is the policyholder's policy ID.
tiv_2015 is the total investment value in 2015 and tiv_2016 is the total investment value in 2016.
lat is the latitude of the policy holder's city.
lon is the longitude of the policy holder's city.

Write an SQL query to report the sum of all total investment values in 2016 `tiv_2016`, for all policyholders who:

- have the same `tiv_2015` value as one or more other policyholders, and
- are not located in the same city like any other policyholder (i.e., the `(lat, lon)` attribute pairs must be unique).

Round `tiv_2016` to **two decimal places**.

The query result format is in the following example.

Example 1:

Input:

Insurance table:

pid	tiv_2015	tiv_2016	lat	lon
1	10	5	10	10
2	20	20	20	20
3	10	30	20	20
4	10	40	40	40

Output:

tiv_2016
45.00

Explanation:

The first record in the table, like the last record, meets both of the two criteria.
The `tiv_2015` value 10 is the same as the third and fourth records, and its location is unique.

The second record does not meet any of the two criteria. Its `tiv_2015` is not like any other policyholders and its location is the same as the third record, which makes the third record fail, too.
So, the result is the sum of `tiv_2016` of the first and last record, which is 45.

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Make the `(LAT, LON)` a pair to represent the location information

```
1 # Write your MySQL query statement below
2 SELECT
3     SUM(insurance.TIV_2016) AS TIV_2016
4 FROM
5     insurance
6 WHERE
7     insurance.TIV_2015 IN
8     (
9         SELECT
10             TIV_2015
11         FROM
12             insurance
13         GROUP BY TIV_2015
14         HAVING COUNT(*) > 1
15     )
16 AND CONCAT(LAT, LON) IN
17     (
18         SELECT
19             CONCAT(LAT, LON)
20         FROM
21             insurance
22         GROUP BY LAT , LON
23         HAVING COUNT(*) = 1
24     );
25
26
```