LeetCode

50 Days 50 SQL Questions
Work In Progress

Day 41/50

41. Investments in 2016
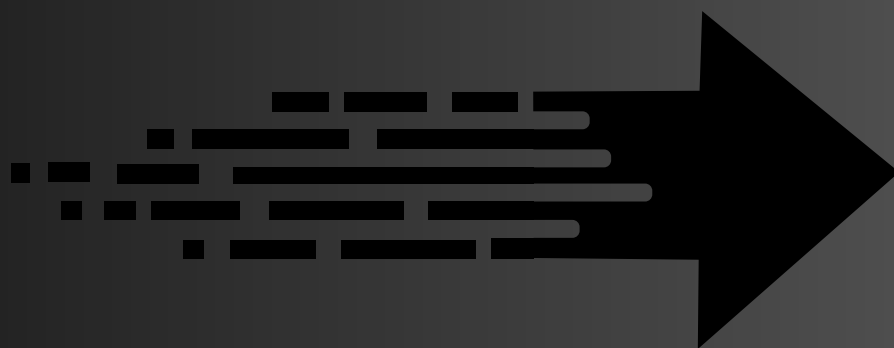
Question

Write a solution 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 as any other policyholder (i.e., the (`lat`, `lon`) attribute pairs must be unique).

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

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Table

```
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  |
+------+----------+----------+-----+-----+
```

Approach

Selected the sum of tiv_2016 with 2 conditions in Where clause, first one to select those records where tiv_2015 was same and second where (lat, lon) were unique i.e. policyholders belongs to diff. cities.

Query

```mysql
MySQL ∨    🔒 Auto

1   # Write your MySQL query statement below
2   SELECT ROUND(SUM(tiv_2016),2) AS tiv_2016
3   FROM insurance
4   WHERE tiv_2015 IN
5       (SELECT tiv_2015
6        FROM insurance
7        GROUP BY tiv_2015
8        HAVING COUNT(*) > 1)
9   AND (lat,lon) IN
10      (SELECT lat,lon
11       FROM insurance
12       GROUP BY lat,lon
13       HAVING COUNT(*) = 1);
```
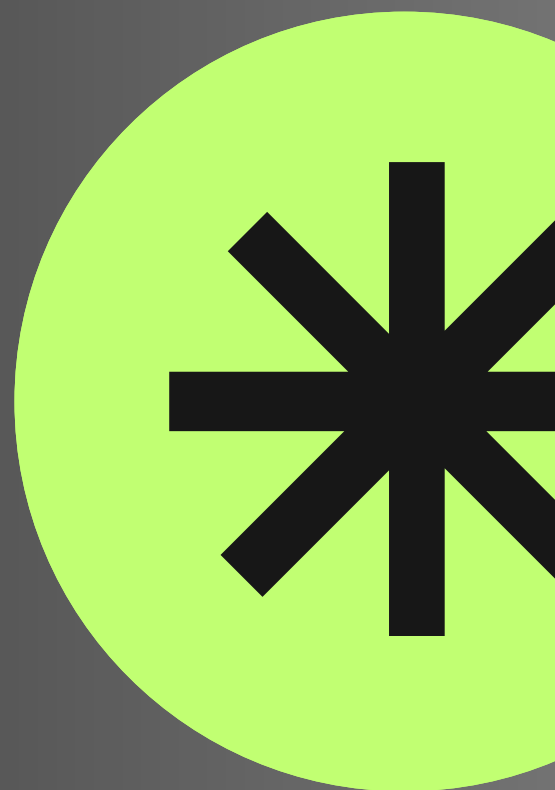
Output

```
Output:

+------------+
|  tiv_2016  |
+------------+
|  45.00     |
+------------+
```

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Thank You :)