

Problem 601: Human Traffic of Stadium

Problem Information

Difficulty: Hard

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Stadium

+-----+-----+ | Column Name | Type | +-----+-----+ | id | int | | visit_date |
date | | people | int | +-----+-----+ visit_date is the column with unique values for this
table. Each row of this table contains the visit date and visit id to the stadium with the number
of people during the visit. As the id increases, the date increases as well.

Write a solution to display the records with three or more rows with

consecutive

id

's, and the number of people is greater than or equal to 100 for each.

Return the result table ordered by

visit_date

in

ascending order

The result format is in the following example.

Example 1:

Input:

Stadium table: +-----+-----+-----+ | id | visit_date | people |
+-----+-----+-----+ | 1 | 2017-01-01 | 10 | | 2 | 2017-01-02 | 109 | | 3 | 2017-01-03 |
150 | | 4 | 2017-01-04 | 99 | | 5 | 2017-01-05 | 145 | | 6 | 2017-01-06 | 1455 | | 7 | 2017-01-07 |
199 | | 8 | 2017-01-09 | 188 | +-----+-----+-----+

Output:

+-----+-----+-----+ | id | visit_date | people | +-----+-----+-----+ | 5 |
2017-01-05 | 145 | | 6 | 2017-01-06 | 1455 | | 7 | 2017-01-07 | 199 | | 8 | 2017-01-09 | 188 |
+-----+-----+-----+

Explanation:

The four rows with ids 5, 6, 7, and 8 have consecutive ids and each of them has ≥ 100 people attended. Note that row 8 was included even though the visit_date was not the next day after row 7. The rows with ids 2 and 3 are not included because we need at least three consecutive ids.

Code Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

PostgreSQL:

```
-- Write your PostgreSQL query statement below
```

Oracle:

```
/* Write your PL/SQL query statement below */
```

Pandas:

```
import pandas as pd

def human_traffic(stadium: pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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