

Problem 578: Get Highest Answer Rate Question

Problem Information

Difficulty: **Medium**

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

SurveyLog

+-----+-----+ | Column Name | Type | +-----+-----+ | id | int | | action | ENUM | |
question_id | int | | answer_id | int | | q_num | int | | timestamp | int | +-----+-----+ This
table may contain duplicate rows. action is an ENUM (category) of the type: "show", "answer",
or "skip". Each row of this table indicates the user with ID = id has taken an action with the
question question_id at time timestamp. If the action taken by the user is "answer", answer_id
will contain the id of that answer, otherwise, it will be null. q_num is the numeral order of the
question in the current session.

The

answer rate

for a question is the number of times a user answered the question by the number of times a
user showed the question.

Write a solution to report the question that has the highest

answer rate

. If multiple questions have the same maximum

answer rate

, report the question with the smallest

question_id

.

The result format is in the following example.

Example 1:

Input:

```
SurveyLog table: +----+-----+-----+-----+-----+-----+ | id | action | question_id |  
answer_id | q_num | timestamp | +----+-----+-----+-----+-----+-----+ | 5 | show  
| 285 | null | 1 | 123 | | 5 | answer | 285 | 124124 | 1 | 124 | | 5 | show | 369 | null | 2 | 125 | | 5 |  
skip | 369 | null | 2 | 126 | +----+-----+-----+-----+-----+-----+
```

Output:

```
+-----+ | survey_log | +-----+ | 285 | +-----+
```

Explanation:

Question 285 was showed 1 time and answered 1 time. The answer rate of question 285 is 1.0
Question 369 was showed 1 time and was not answered. The answer rate of question 369 is 0.0
Question 285 has the highest answer rate.

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 get_the_question(survey_log: pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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