

Problem 578: Get Highest Answer Rate Question

Problem Information

Difficulty: Medium

Acceptance Rate: 40.10%

Paid Only: Yes

Tags: Database

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 | 124 | 124 | 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
```