

Problem 3056: Snaps Analysis

Problem Information

Difficulty: Medium

Acceptance Rate: 58.23%

Paid Only: Yes

Tags: Database

Problem Description

Table: `Activities`

+-----+-----+ | Column Name | Type | +-----+-----+ | activity_id | int || user_id | int | | activity_type | enum | | time_spent | decimal | +-----+-----+ activity_id is column of unique values for this table. activity_type is an ENUM (category) type of ('send', 'open'). This table contains activity id, user id, activity type and time spent.

Table: `Age`

+-----+-----+ | Column Name | Type | +-----+-----+ | user_id | int | | age_bucket | enum | +-----+-----+ user_id is the column of unique values for this table. age_bucket is an ENUM (category) type of ('21-25', '26-30', '31-35'). This table contains user id and age group.

Write a solution to calculate the **percentage** of the total time spent on **sending** and **opening snaps** for **each age group**. Percentage should be **rounded** to `2` decimal places.

Return _the result table_ _in**any** order._

The result format is in the following example.

Example 1:

Input: Activities table: +-----+-----+-----+ | activity_id | user_id | activity_type | time_spent | +-----+-----+-----+ | 7274 | 123 | open |

```

4.50 | | 2425 | 123 | send | 3.50 | | 1413 | 456 | send | 5.67 | | 2536 | 456 | open | 3.00 | | 8564 |
456 | send | 8.24 | | 5235 | 789 | send | 6.24 | | 4251 | 123 | open | 1.25 | | 1435 | 789 | open |
5.25 | +-----+-----+-----+ Age table: +-----+-----+ | user_id |
age_bucket | +-----+-----+-----+ | 123 | 31-35 | | 789 | 21-25 | | 456 | 26-30 |
+-----+ **Output:** +-----+-----+-----+ | age_bucket | send_perc |
open_perc | +-----+-----+-----+ | 31-35 | 37.84 | 62.16 | | 26-30 | 82.26 | 17.74 | |
21-25 | 54.31 | 45.69 | +-----+-----+-----+ **Explanation:** For age group 31-35: -
There is only one user belonging to this group with the user ID 123. - The total time spent on
sending snaps by this user is 3.50, and the time spent on opening snaps is  $4.50 + 1.25 = 5.75$ .
- The overall time spent by this user is  $3.50 + 5.75 = 9.25$ . - Therefore, the sending snap
percentage will be  $(3.50 / 9.25) * 100 = 37.84$ , and the opening snap percentage will be  $(5.75 / 9.25) * 100 = 62.16$ . For age group 26-30: - There is only one user belonging to this group with
the user ID 456. - The total time spent on sending snaps by this user is  $5.67 + 8.24 = 13.91$ ,
and the time spent on opening snaps is 3.00. - The overall time spent by this user is  $13.91 + 3.00 = 16.91$ . - Therefore, the sending snap percentage will be  $(13.91 / 16.91) * 100 = 82.26$ ,
and the opening snap percentage will be  $(3.00 / 16.91) * 100 = 17.74$ . For age group 21-25: -
There is only one user belonging to this group with the user ID 789. - The total time spent on
sending snaps by this user is 6.24, and the time spent on opening snaps is 5.25. - The overall
time spent by this user is  $6.24 + 5.25 = 11.49$ . - Therefore, the sending snap percentage will
be  $(6.24 / 11.49) * 100 = 54.31$ , and the opening snap percentage will be  $(5.25 / 11.49) * 100 = 45.69$ . All percentages in output table rounded to the two decimal places.

```

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
```