3056. Snaps Analysis Premium

Medium Topics

SQL Schema > Pandas Schema >

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**. Precentage 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.

Seen this question in a real interview before? 1/5

Yes No

Accepted **1.7K** | Submissions **2.9K** | Acceptance Rate **58.0%**

Topics

Database

Discussion (2)