SQL Schema

Table: Signups

+----------------+----------+

| Column Name | Type |

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| user\_id | int |

| time\_stamp | datetime |

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user\_id is the primary key for this table.

Each row contains information about the signup time for the user with ID user\_id.

Table: Confirmations

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| Column Name | Type |

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| user\_id | int |

| time\_stamp | datetime |

| action | ENUM |

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(user\_id, time\_stamp) is the primary key for this table.

user\_id is a foreign key with a reference to the Signups table.

action is an ENUM of the type ('confirmed', 'timeout')

Each row of this table indicates that the user with ID user\_id requested a confirmation message at time\_stamp and that confirmation message was either confirmed ('confirmed') or expired without confirming ('timeout').

The **confirmation rate** of a user is the number of 'confirmed' messages divided by the total number of requested confirmation messages. The confirmation rate of a user that did not request any confirmation messages is 0.

Write an SQL query to find the **confirmation rate** of each user.

Return the result table **in any order**.

The query result format is in the following example:

Signups table:

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| user\_id | time\_stamp |

+---------+---------------------+

| 3 | 2020-03-21 10:16:13 |

| 7 | 2020-01-04 13:57:59 |

| 2 | 2020-07-29 23:09:44 |

| 6 | 2020-12-09 10:39:37 |

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Confirmations table:

+---------+---------------------+-----------+

| user\_id | time\_stamp | action |

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| 3 | 2021-01-06 03:30:46 | timeout |

| 3 | 2021-07-14 14:00:00 | timeout |

| 7 | 2021-06-12 11:57:29 | confirmed |

| 7 | 2021-06-13 12:58:28 | confirmed |

| 7 | 2021-06-14 13:59:27 | confirmed |

| 2 | 2021-01-22 00:00:00 | confirmed |

| 2 | 2021-02-28 23:59:59 | timeout |

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Result table

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| user\_id | confirmation\_rate |

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| 6 | 0.00 |

| 3 | 0.00 |

| 7 | 1.00 |

| 2 | 0.50 |

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User 6 did not request any confirmation messages. The confirmation rate is 0.

User 3 made 2 requests and both timed out. The confirmation rate is 0.

User 7 made 3 requests and all were confirmed. The confirmation rate is 1.

User 2 made 2 requests where one was confirmed and the other timed out. The confirmation rate is 1 / 2 = 0.5.