

1322. Ads Performance

Description

Table: `Ads`

Column Name	Type
<code>ad_id</code>	<code>int</code>
<code>user_id</code>	<code>int</code>
<code>action</code>	<code>enum</code>

(`ad_id`, `user_id`) is the primary key (combination of columns with unique values) for this table.
Each row of this table contains the ID of an Ad, the ID of a user, and the action taken by this user regarding this Ad.
The action column is an ENUM (category) type of ('Clicked', 'Viewed', 'Ignored').

A company is running Ads and wants to calculate the performance of each Ad.

Performance of the Ad is measured using Click-Through Rate (CTR) where:

$$CTR = \begin{cases} 0, & \text{if Ad total clicks + Ad total views} = 0 \\ \frac{\text{Ad total clicks}}{\text{Ad total clicks} + \text{Ad total views}} \times 100, & \text{otherwise} \end{cases}$$

Write a solution to find the `ctr` of each Ad. Round `ctr` to two decimal points .

Return the result table ordered by `ctr` in **descending order** and by `ad_id` in **ascending order** in case of a tie.

The result format is in the following example.

Example 1:

Input:		
Ads table:		
<code>ad_id</code>	<code>user_id</code>	<code>action</code>
1	1	Clicked
2	2	Clicked
3	3	Viewed
5	5	Ignored
1	7	Ignored
2	7	Viewed
3	5	Clicked
1	4	Viewed
2	11	Viewed
1	2	Clicked
Output:		
<code>ad_id</code>	<code>ctr</code>	
1	66.67	
3	50.00	
2	33.33	
5	0.00	
Explanation:		
for <code>ad_id</code> = 1, <code>ctr</code> = (2/(2+1)) * 100 = 66.67		
for <code>ad_id</code> = 2, <code>ctr</code> = (1/(1+2)) * 100 = 33.33		
for <code>ad_id</code> = 3, <code>ctr</code> = (1/(1+1)) * 100 = 50.00		
for <code>ad_id</code> = 5, <code>ctr</code> = 0.00, Note that <code>ad_id</code> = 5 has no clicks or views.		
Note that we do not care about Ignored Ads.		

