

2720. Popularity Percentage Premium

Hard 🔒 Topics

SQL Schema > Pandas Schema >

Table: Friends

Column Name	Type
user1	int
user2	int

(user1, user2) is the primary key (combination of unique values) of this table.
Each row contains information about friendship where user1 and user2 are friends.

Write a solution to find the popularity percentage for each user on Meta/Facebook. The popularity percentage is defined as the total number of friends the user has divided by the total number of users on the platform, then converted into a percentage by multiplying by 100, **rounded to 2 decimal places**.

Return *the result table ordered by* `user1` *in* ***ascending*** order.

The result format is in the following example.

Example 1:

Input:
Friends table:

user1	user2
2	1
1	3
4	1
1	5
1	6
2	6
7	2
8	3
3	9

Output:

user1	percentage_popularity
1	55.56
2	33.33
3	33.33
4	11.11
5	11.11
6	22.22
7	11.11
8	11.11
9	11.11

Explanation:
There are total 9 users on the platform.

- User "1" has friendships with 2, 3, 4, 5 and 6. Therefore, the percentage popularity for user 1 would be calculated as $(5/9) * 100 = 55.56$.
- User "2" has friendships with 1, 6 and 7. Therefore, the percentage popularity for user 2 would be calculated as $(3/9) * 100 = 33.33$.
- User "3" has friendships with 1, 8 and 9. Therefore, the percentage popularity for user 3 would be calculated as $(3/9) * 100 = 33.33$.
- User "4" has friendships with 1. Therefore, the percentage popularity for user 4 would be calculated as $(1/9) * 100 = 11.11$.
- User "5" has friendships with 1. Therefore, the percentage popularity for user 5 would be calculated as $(1/9) * 100 = 11.11$.
- User "6" has friendships with 1 and 2. Therefore, the percentage popularity for user 6 would be calculated as $(2/9) * 100 = 22.22$.
- User "7" has friendships with 2. Therefore, the percentage popularity for user 7 would be calculated as $(1/9) * 100 = 11.11$.
- User "8" has friendships with 3. Therefore, the percentage popularity for user 8 would be calculated as $(1/9) * 100 = 11.11$.
- User "9" has friendships with 3. Therefore, the percentage popularity for user 9 would be calculated as $(1/9) * 100 = 11.11$.

user1 is sorted in ascending order.

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

Yes No

Accepted 2.2K | Submissions 4.1K | Acceptance Rate 52.5%

Topics

Database

Discussion (1)