

Problem 2820: Election Results

Problem Information

Difficulty: Medium

Acceptance Rate: 66.70%

Paid Only: Yes

Problem Description

Table: `Votes`

+-----+-----+ | Column Name | Type | +-----+-----+ | voter | varchar ||
candidate | varchar | +-----+-----+ (voter, candidate) is the primary key (combination
of unique values) for this table. Each row of this table contains name of the voter and their
candidate.

The election is conducted in a city where everyone can vote for **one or more** candidates or choose **not** to vote. Each person has `1`**vote** so if they vote for multiple candidates, their vote gets equally split across them. For example, if a person votes for `2` candidates, these candidates receive an equivalent of `0.5` votes each.

Write a solution to find `candidate` who got the most votes and won the election. Output the name of the **candidate** or If multiple candidates have an **equal number** of votes, display the names of all of them.

Return _the result table ordered_ _by_ `candidate` _in**ascending** order._

The result format is in the following example.

Example 1:

Input: Votes table: +-----+-----+ | voter | candidate | +-----+-----+ | Kathy | null | | Charles | Ryan | | Charles | Christine | | Charles | Kathy | | Benjamin | Christine | | Anthony | Ryan | | Edward | Ryan | | Terry | null | | Evelyn | Kathy | | Arthur | Christine | +-----+-----+ **Output:** +-----+ | candidate | +-----+ | Christine | | Ryan | +-----+ **Explanation:** - Kathy and Terry opted not to participate in voting, resulting in

their votes being recorded as 0. Charles distributed his vote among three candidates, equating to 0.33 for each candidate. On the other hand, Benjamin, Arthur, Anthony, Edward, and Evelyn each cast their votes for a single candidate. - Collectively, Candidate Ryan and Christine amassed a total of 2.33 votes, while Kathy received a combined total of 1.33 votes. Since Ryan and Christine received an equal number of votes, we will display their names in ascending order.

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
```