Problem 1127: User Purchase Platform

Problem Information

Difficulty: Hard
Acceptance Rate: 46.58%
Paid Only: Yes
Tags: Database

Problem Description

Table: `Spending`

+-------------+---------+ | Column Name | Type | +-------------+---------+ | user_id | int | | spend_date | date | | platform | enum | | amount | int | +-------------+---------+ The table logs the history of the spending of users that make purchases from an online shopping website that has a desktop and a mobile application. (user_id, spend_date, platform) is the primary key (combination of columns with unique values) of this table. The platform column is an ENUM (category) type of ('desktop', 'mobile').

Write a solution to find the total number of users and the total amount spent using the mobile only, the desktop only, and both mobile and desktop together for each date.

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

The result format is in the following example.

Example 1:

Input: Spending table: +---------+------------+----------+--------+ | user_id | spend_date | platform | amount | +---------+------------+----------+--------+ | 1 | 2019-07-01 | mobile | 100 | | 1 | 2019-07-01 | desktop | 100 | | 2 | 2019-07-01 | mobile | 100 | | 2 | 2019-07-02 | mobile | 100 | | 3 | 2019-07-01 | desktop | 100 | | 3 | 2019-07-02 | desktop | 100 | +---------+------------+----------+--------+ **Output:** +------------+----------+--------------+-------------+ | spend_date | platform | total_amount | total_users | +------------+----------+--------------+-------------+ | 2019-07-01 | desktop | 100 | 1 | | 2019-07-01 | mobile | 100 | 1 | | 2019-07-01 | both | 200 | 1 | | 2019-07-02 | desktop | 100 | 1 | | 2019-07-02 |

mobile | 100 | 1 | | 2019-07-02 | both | 0 | 0 | +------------+----------+--------------+-------------+ **Explanation:** On 2019-07-01, user 1 purchased using **both** desktop and mobile, user 2 purchased using mobile **only** and user 3 purchased using desktop **only**. On 2019-07-02, user 2 purchased using mobile **only** , user 3 purchased using desktop **only** and no one purchased using **both** platforms.

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
```