Problem 1364: Number of Trusted Contacts of a Customer

Problem Information

Difficulty: Medium
Acceptance Rate: 74.80%
Paid Only: Yes
Tags: Database

Problem Description

Table: `Customers`

+---------------+---------+ | Column Name | Type | +---------------+---------+ | customer_id | int | | customer_name | varchar | | email | varchar | +---------------+---------+ customer_id is the column of unique values for this table. Each row of this table contains the name and the email of a customer of an online shop.

Table: `Contacts`

+---------------+---------+ | Column Name | Type | +---------------+---------+ | user_id | id | | contact_name | varchar | | contact_email | varchar | +---------------+---------+ (user_id, contact_email) is the primary key (combination of columns with unique values) for this table. Each row of this table contains the name and email of one contact of customer with user_id. This table contains information about people each customer trust. The contact may or may not exist in the Customers table.

Table: `Invoices`

+--------------+---------+ | Column Name | Type | +--------------+---------+ | invoice_id | int | | price | int | | user_id | int | +--------------+---------+ invoice_id is the column of unique values for this table. Each row of this table indicates that user_id has an invoice with invoice_id and a price.

Write a solution to find the following for each `invoice_id`:

* `customer_name`: The name of the customer the invoice is related to. * `price`: The price of the invoice. * `contacts_cnt`: The number of contacts related to the customer. * `trusted_contacts_cnt`: The number of contacts related to the customer and at the same time they are customers to the shop. (i.e their email exists in the `Customers` table.)

Return the result table **ordered** by `invoice_id`.

The result format is in the following example.

Example 1:

Input: Customers table: +-------------+---------------+--------------------+ | customer_id | customer_name | email | +-------------+---------------+--------------------+ | 1 | Alice | alice@leetcode.com | | 2 | Bob | bob@leetcode.com | | 13 | John | john@leetcode.com | | 6 | Alex | alex@leetcode.com | +-------------+---------------+--------------------+ Contacts table: +-------------+--------------+--------------------+ | user_id | contact_name | contact_email | +-------------+--------------+--------------------+ | 1 | Bob | bob@leetcode.com | | 1 | John | john@leetcode.com | | 1 | Jal | jal@leetcode.com | | 2 | Omar | omar@leetcode.com | | 2 | Meir | meir@leetcode.com | | 6 | Alice | alice@leetcode.com | +-------------+--------------+--------------------+ Invoices table: +------------+-------+---------+ | invoice_id | price | user_id | +------------+-------+---------+ | 77 | 100 | 1 | | 88 | 200 | 1 | | 99 | 300 | 2 | | 66 | 400 | 2 | | 55 | 500 | 13 | | 44 | 60 | 6 | +------------+-------+---------+ **Output:** +------------+---------------+-------+--------------+---------------------+ | invoice_id | customer_name | price | contacts_cnt | trusted_contacts_cnt | +------------+---------------+-------+--------------+---------------------+ | 44 | Alex | 60 | 1 | 1 | | 55 | John | 500 | 0 | 0 | | 66 | Bob | 400 | 2 | 0 | | 77 | Alice | 100 | 3 | 2 | | 88 | Alice | 200 | 3 | 2 | | 99 | Bob | 300 | 2 | 0 | +------------+---------------+-------+--------------+---------------------+ **Explanation:** Alice has three contacts, two of them are trusted contacts (Bob and John). Bob has two contacts, none of them is a trusted contact. Alex has one contact and it is a trusted contact (Alice). John doesn't have any contacts.

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
```