SQL Schema

Table: Customers

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| Column Name | Type |

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| customer\_id | int |

| customer\_name | varchar |

| email | varchar |

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customer\_id is the primary key for this table.

Each row of this table contains the name and the email of a customer of an online shop.

Table: Contacts

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| Column Name | Type |

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| user\_id | id |

| contact\_name | varchar |

| contact\_email | varchar |

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(user\_id, contact\_email) is the primary key 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

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| Column Name | Type |

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| invoice\_id | int |

| price | int |

| user\_id | int |

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invoice\_id is the primary key for this table.

Each row of this table indicates that user\_id has an invoice with invoice\_id and a price.

Write an SQL query 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 His/Her email exists in the Customers table.)

Order the result table by invoice\_id.

The query result format is in the following example:

Customers table:

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| 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 |

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Contacts table:

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| 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 |

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Invoices table:

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| invoice\_id | price | user\_id |

+------------+-------+---------+

| 77 | 100 | 1 |

| 88 | 200 | 1 |

| 99 | 300 | 2 |

| 66 | 400 | 2 |

| 55 | 500 | 13 |

| 44 | 60 | 6 |

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Result table:

+------------+---------------+-------+--------------+----------------------+

| 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 |

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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.