

SQL Schema >

Table: Customers

Column Name	Type
customer_id	int
customer_name	varchar
email	varchar

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

Column Name	Type
user_id	id
contact_name	varchar
contact_email	varchar

(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

Column Name	Type
invoice_id	int
price	int
user_id	int

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:

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	Mair	mair@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

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

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.