1. Business Expansion

As part of business expansion efforts at a company, your help is needed to find all pairs of customers and agents who have been in contact more than once. For each such pair, display the user id, first name, and last name, and the customer id, name, and the number of their contacts. Order the result by user id ascending.

▼ Schema

There are 3 tables: customer, user_account, contact.

customer						
Name	Туре	Description				
id	int	This is a primary key				
customer_name	varchar(255)	Name of the customer				
city_id	int	A unique id for the city in which the customer resides				
customer_address	varchar(255)	Customer's address				
contact_person	varchar(255)	Person of contact. Can be null.				
email	varchar(128)	Email address of the customer				
phone	varchar(128)	Phone number for the customer				
is_active	int	Boolean to denote if the customer is active				

			user_ac	count		
Name	Name Type			Description		
id int			This is a primary key			
first_name	varchar(64)		First name of the user		
last_name	varchar(64)		Last name of the user		
user_name varchar(12		28)		user name for the user		
password	varchar(2	255)		password of the account		
email	varchar(1	28)		email address of the user		
phone	varchar(1	28)	contac	ct number for the user. Can be null.		
is_active	int		Boolean to denote if the user_account			
	To-		cor	ntact		
Nam	ie		Туре	Description		
id		int		This is a primary key Foreign key referencing user_account.		
user_acco	unt_id					
customer_id		int		Foreign key referencing customer.id		
contact_type_id			int	Type of the contact		
contact_outcome_id		int		Can be null		
additional_comment		var	char(255)	Can be null		
initiated_by_	customer		int	Boolean		
575				50		

int

Boolean

initiated_by_user

▼ Sample Data Tables

	customer										
id	customer_name	city_id	customer_address	contact_person	email	phone	is_active				
1	Drogerie Wien	1	Deckergasse 15A	Emil Steinbach	emil@drogeriewien.com	094234234	1				
2	Cosmetics Store	4	Watling Street 347	Jeremy Corbyn	jeremy@c-store.org	093923923	1				
3	Kosmetikstudio	3	Rothenbaumchaussee 53	Willy Brandt	willy@kosmetikstudio.com	0941562222	0				
4	Neue Kosmetik	1	Karlsplatz 2	NULL	info@neuekosmetik.com	094109253	1				
5	Bio Kosmetik	2	Motzstraße 23	Clara Zetkin	clara@biokosmetik.org	093825825	1				
6	K-Wien	1	Kärntner Straße 204	Maria Rauch-Kallat	maria@kwien.org	093427002	1				
7	Natural Cosmetics	4	Clerkenwell Road 14B	Glenda Jackson	glena.j@natural-cosmetics.com	093555123	1				
8	Kosmetik Plus	2	Unter den Linden 1	Angela Merkel	angela@k-plus.com	094727727	1				
9	New Line Cosmetics	4	Devonshire Street 92	Oliver Cromwell	oliver@nlc.org	093202404	0				

user_account								
id	first_name	last_name user_name		password	email	phone	is_active	
1	Jürgen	Klopp	jklopp	d0406ee29d848474a1897058df4634ad	jklopp@gmail.com	0933336777	1	
2	José	Mourinho	jmourinho	64bd7f38bef780050096bfb872084ac7	jmourinho@gmail.com	093825125	1	
3	Josep	Guardiola	jpuardiola	98a87d2631b766915c9d1bf584c3fd7b	jpuardiola@gmail.com	NULL	1	
4	Alex	Ferguson	aferguson	bda97a3a31b44206e6bc3d5f40f6023e	aferguson@gmail.com	093925645	0	

contact								
id	user_account_id	customer_id	contact_type_id	contact_outcome_id	additional_comment	initiated_by_customer	initiated_by_user	
1	4	7	1	4	customer agreed to our offer	0	1	
2	1	2	1	1	don't want our products	0	1	
3	2	9	1	4	interested in our offer	0	1	
4	3	1	1	2	call him tomorrow	0	1	
5	1	6	1	4	purchased our products	0	1	
6	4	3	ì	4	customer agreed to our offer	0	1	
7	3	5	1	4	loves our products	0	1	
8	4	4	1	4	customer agreed to our offer	0	1	
9	3	8	1	3	call him next month	0	1	
10	4	7	2	2	call him next month	0	1	
11	3	9	3	3	visit him next week	0	1	

The pair of agents and customers represented by (user_account_id, customer_id) who have been in contact more than once is (4, 7) only and have contacted each other twice.