

# Problem 1949: Strong Friendship

## Problem Information

Difficulty: **Medium**

Acceptance Rate: 54.16%

Paid Only: Yes

Tags: Database

## Problem Description

Table: `Friendship`

+-----+-----+ | Column Name | Type | +-----+-----+ | user1\_id | int | | user2\_id | int |  
+-----+-----+ (user1\_id, user2\_id) is the primary key (combination of columns with unique values) for this table. Each row of this table indicates that the users user1\_id and user2\_id are friends. Note that user1\_id < user2\_id.

A friendship between a pair of friends `x` and `y` is **strong** if `x` and `y` have **at least three** common friends.

Write a solution to find all the **strong friendships**.

Note that the result table should not contain duplicates with `user1\_id < user2\_id`.

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

The result format is in the following example.

**Example 1:**

**Input:** Friendship table: +-----+-----+ | user1\_id | user2\_id | +-----+-----+ | 1 | 2 | | 1 | 3 | | 2 | 3 | | 1 | 4 | | 2 | 4 | | 1 | 5 | | 2 | 5 | | 1 | 7 | | 3 | 7 | | 1 | 6 | | 3 | 6 | | 2 | 6 |  
+-----+-----+ **Output:** +-----+-----+ | user1\_id | user2\_id |  
common\_friend | +-----+-----+ | 1 | 2 | 4 | | 1 | 3 | 3 |  
+-----+-----+ **Explanation:** Users 1 and 2 have 4 common friends (3, 4, 5, and 6). Users 1 and 3 have 3 common friends (2, 6, and 7). We did not include the

friendship of users 2 and 3 because they only have two common friends (1 and 6).

## 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
```