

Problem List

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1623. All Valid Triplets That Can Represent a Country

Premium

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SQL SchemaPandas Schema

Table: SchoolA

Column Name	Type
student_id	int
student_name	varchar

student_id is the column with unique values for this table.
Each row of this table contains the name and the id of a student in school A.
All student_name are distinct.

Table: SchoolB

Column Name	Type
student_id	int
student_name	varchar

student_id is the column with unique values for this table.
Each row of this table contains the name and the id of a student in school B.
All student_name are distinct.

Table: SchoolC

Column Name	Type
student_id	int
student_name	varchar

student_id is the column with unique values for this table.
Each row of this table contains the name and the id of a student in school C.
All student_name are distinct.

</> Code

MySQLAuto

```
1 # Write your MySQL query statement below
2
3 SELECT A.student_name AS member_A, B.student_name AS member_B, C.student_name AS member_C
4 FROM SchoolA A
5 JOIN SchoolB B
6 JOIN SchoolC C
7 WHERE A.student_id != B.student_id AND B.student_id != C.student_id AND C.student_id != A.student_id
8 AND A.student_name != B.student_name AND B.student_name != C.student_name AND C.student_name != A.student_name
9
```

SavedLn 9, Col 1

TestcaseTest Result

AcceptedRuntime: 213 ms

Case 1

Input

SchoolA =

student_id	student_name
1	Alice
2	Bob

SchoolB =

student_id	student_name
3	Tom

There is a country with three schools, where each student is enrolled in **exactly one** school. The country is joining a competition and wants to select one student from each school to represent the country such that:

- `member_A` is selected from `SchoolA`,
- `member_B` is selected from `SchoolB`,
- `member_C` is selected from `SchoolC`, and
- The selected students' names and IDs are pairwise distinct (i.e. no two students share the same name, and no two students share the same ID).

Write a solution to find all the possible triplets representing the country under the given constraints.

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

The result format is in the following example.

Example 1:

Input:

SchoolA table:

student_id	student_name
1	Alice
2	Bob

SchoolB table:

student_id	student_name
3	Tom

SchoolC table:

student_id	student_name
3	Tom
2	Jerry
10	Alice

Output:

member_A	member_B	member_C
Alice	Tom	Jerry
Bob	Tom	Alice

Explanation:
Let us see all the possible triplets.
- (Alice, Tom, Tom) --> Rejected because member_B and member_C have the same name and the same ID.
- (Alice, Tom, Jerry) --> Valid triplet.
- (Alice, Tom, Alice) --> Rejected because member_A and member_C have the same name.
- (Bob, Tom, Tom) --> Rejected because member_B and member_C have the same name and the same ID.
- (Bob, Tom, Jerry) --> Rejected because member_A and member_C have the same ID.
- (Bob, Tom, Alice) --> Valid triplet.

Seen this question in a real interview before? 1/5

YesNo

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