

# 1623. All Valid Triplets That Can Represent a Country Premium

EasyTopicsCompanies

SQL Schema > Pandas 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.

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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