

Problem 1350: Students With Invalid Departments

Problem Information

Difficulty: **Easy**

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Departments

	Column Name	Type		id	int	name
varchar			In SQL,	id	is the primary key of this table.	The table has information about the id of each department of a university.

Table:

Students

	Column Name	Type		id	int	name
varchar	department_id	int	In SQL,	id	is the primary key of this table.	The table has information about the id of each student at a university and the id of the department he/she studies at.

Find the id and the name of all students who are enrolled in departments that no longer exist.

Return the result table in

any order

The result format is in the following example.

Example 1:

Input:

Departments table: +-----+ | id | name | +-----+ | 1 |
Electrical Engineering | | 7 | Computer Engineering | | 13 | Bussiness Administration |
+-----+ Students table: +-----+ | id | name |
department_id | +-----+ | 23 | Alice | 1 | | 1 | Bob | 7 | | 5 | Jennifer | 13 | |
2 | John | 14 | | 4 | Jasmine | 77 | | 3 | Steve | 74 | | 6 | Luis | 1 | | 8 | Jonathan | 7 | | 7 | Daiana |
33 | | 11 | Madelynn | 1 | +-----+

Output:

+-----+ | id | name | +-----+ | 2 | John | | 7 | Daiana | | 4 | Jasmine | | 3 |
Steve | +-----+

Explanation:

John, Daiana, Steve, and Jasmine are enrolled in departments 14, 33, 74, and 77 respectively. department 14, 33, 74, and 77 do not exist in the Departments table.

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
```

Oracle:

```
/* Write your PL/SQL query statement below */
```

Pandas:

```
import pandas as pd

def find_students(departments: pd.DataFrame, students: pd.DataFrame) ->
    pd.DataFrame:
```

Solutions

MySQL Solution:

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