Problem 1350: Students With Invalid Departments

Problem Information

Difficulty: Easy
Acceptance Rate: 89.87%
Paid Only: Yes
Tags: Database

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
```