

Problem 175: Combine Two Tables

Problem Information

Difficulty: Easy

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Person

+-----+-----+ | Column Name | Type | +-----+-----+ | personId | int | | lastName
| varchar | | firstName | varchar | +-----+-----+ personId is the primary key (column
with unique values) for this table. This table contains information about the ID of some
persons and their first and last names.

Table:

Address

+-----+-----+ | Column Name | Type | +-----+-----+ | addressId | int | | personId
| int | | city | varchar | | state | varchar | +-----+-----+ addressId is the primary key
(column with unique values) for this table. Each row of this table contains information about
the city and state of one person with ID = PersonId.

Write a solution to report the first name, last name, city, and state of each person in the

Person

table. If the address of a

personId

is not present in the

Address

table, report

null

instead.

Return the result table in

any order

The result format is in the following example.

Example 1:

Input:

Person table: +-----+-----+-----+ | personId | lastName | firstName |
+-----+-----+-----+ | 1 | Wang | Allen | | 2 | Alice | Bob | +-----+-----+
Address table: +-----+-----+-----+-----+ | addressId | personId | city | state |
+-----+-----+-----+-----+ | 1 | 2 | New York City | New York | | 2 | 3 |
Leetcode | California | +-----+-----+-----+

Output:

+-----+-----+-----+-----+ | firstName | lastName | city | state |
+-----+-----+-----+-----+ | Allen | Wang | Null | Null | | Bob | Alice | New York
City | New York | +-----+-----+-----+

Explanation:

There is no address in the address table for the personId = 1 so we return null in their city and state. addressId = 1 contains information about the address of personId = 2.

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 combine_two_tables(person: pd.DataFrame, address: pd.DataFrame) ->
    pd.DataFrame:
```

Solutions

MySQL Solution:

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