

Combine Two Tables

Table: **Person**

Column Name	Type
personId	int
lastName	varchar
firstName	varchar

personId is the primary key column 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 for this table.

Each row of this table contains information about the city and state of one person with ID = PersonId.

Write an SQL query 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 query result format is in the following example.

Example 1:

Input:

Person table:

personId	lastName	firstName
1	Wang	Allen
2	Alice	Bob

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+-----+-----+-----+
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     |
+-----+-----+-----+-----+

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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.

Solution:

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select firstName, LastName, Address.city, Address.state from Person left join Address on
Person.personId = Address.personId;

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