# combine-two-tables (Easy)

#### Source: -

https://leetcode.com/problems/combine-two-tables/description/?envType=problem-list-v2&envId =database

```
Table: Person
+-----+
| Column Name | Type |
+-----+
| personId | int |
| lastName | varchar |
| firstName | varchar |
```

personld 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 |
```

addressld 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:

#### Address table:

## Output:

#### 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.

SELECT p.firstName, p.lastName, a.city, a.state FROM person AS p LEFT JOIN address AS a on p.personId = a.personId;

### Explanation:

- 1. **Select Columns**: Retrieve firstName, lastName from the person table and city, state from the address table.
- 2. **From person table**: Use the person table as the main source of data, giving it the alias p.
- Left Join with address table: Join the address table (alias a) to include corresponding address details.
- 4. **Join Condition**: Match records where personId from the person table equals personId from the address table.

This results in a list of names with their corresponding city and state, if available. If no address is found, the city and state will be NULL.