

LeetCode Database Problem 175 - Easy

- **Problem: Combine Two Tables**

Easy Topics Companies

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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**.

- **Solution**

MySQL  • Auto

```
1 # Write your MySQL query statement below
2 SELECT firstName, lastname, city, state
3 FROM person p
4 LEFT JOIN address a
5 ON p.personID = a.personId
```

- **Reflection**

1. The information needed is from both table, so a join should be applied.

2. “report the information for each person” means the major table is “Person” and it is the table before a “left join”.
3. All information in the major table would be returned regardless of a match in the other table.
4. In the join condition, if any rows in the major table do not have a match with the other table, then the columns in the other table will be assigned “null” as the row values for these no-matching rows.