

175. Combine Two Tables

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Table: Person

```
+----+
| Column Name | Type
+----+
PersonId
         int
FirstName
         varchar
LastName
       varchar
+----+
PersonId is the primary key column for this table.
```

Table: Address

ddressId   int   ersonId   int   ity   varchar	
ersonId   int	
ity     varchar	
The street of th	
tate   varchar	

Write a SQL query for a report that provides the following information for each person in the Person table, regardless if there is an address for each of those people:

```
FirstName, LastName, City, State
```

## Solution

## Approach: Using outer join [Accepted]

## Algorithm

Since the Personld in table Address is the foreign key of table Person, we can join this two table to get the address information of a person.

Considering there might not be an address information for every person, we should use outer join instead of the default inner join.

## MySQL

```
select FirstName, LastName, City, State
from Person left join Address
on Person.PersonId = Address.PersonId
```

because it will not display the name information.

Note: Using where clause to filter the records will fail if there is no address information for a person



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< 1 2 3 4 5 6 ... 9 10 >

