# 1. Table Descriptions:

## a. Person table:

|  |  |  |
| --- | --- | --- |
| **personId(int)[PK]** | **lastName(varchar)** | **firstName(varchar)** |
| 1 | Wang | Allen |
| 2 | Alice | Bob |

## b. Address table:

|  |  |  |  |
| --- | --- | --- | --- |
| **addressId(int)[PK]** | **personId(int)** | **city(varchar)** | **state(varchar)** |
| 1 | 2 | New York City | New York |
| 2 | 3 | Leetcode | California |

# 2. Question

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.

# 3. Expected Output:

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

# 4. Solution:

SELECT P.firstName

      ,P.lastName

      ,A.city

      ,A.state

FROM Person P

LEFT JOIN Address A

ON P.personId = A.personId