



# MySQL NOT IN

**Summary:** in this tutorial, you'll learn how to use the MySQL `NOT IN` operator to check if a value is not in a list of values.

## Introduction to the MySQL NOT IN operator

The `NOT` operator negates the `IN` (<https://www.mysqltutorial.org/mysql-basics/mysql-in/>) operator:

```
value NOT IN (value1, value2, value2)
```

The `NOT IN` operator returns one if the value doesn't equal any value in the list. Otherwise, it returns 0.

The following example uses the `NOT IN` operator to check if the number 1 is `NOT IN` the list (1,2,3):

```
SELECT 1 NOT IN (1,2,3);
```

Output:

```
+-----+
| 1 NOT IN (1,2,3) |
+-----+
|                  0 |
+-----+
1 row in set (0.00 sec)
```

It returns 0 (false) because 1 is `NOT IN` the list is `false`.

The following example uses the `NOT IN` operator to check if 0 is `NOT IN` the list (1,2,3):

```
SELECT 0 NOT IN (1,2,3);
```

Output:

```
+-----+
| 0 NOT IN (1,2,3) |
+-----+
```

```
+-----+
|          1 |
+-----+
1 row in set (0.00 sec)
```

The `NOT IN` operator returns `NULL` (<https://www.mysqltutorial.org/mysql-null/>) if the value on the left side of the `IN` operator is `NULL`. For example:

```
SELECT NULL NOT IN (1,2,3);
```

Output:

```
+-----+
| NULL NOT IN (1,2,3) |
+-----+
|          NULL |
+-----+
1 row in set (0.00 sec)
```

Technically, the `NOT IN` operator is equivalent to the following:

```
NOT (value = value1 OR value = value2 OR value = value3)
```

Or:

```
value <> value1 AND value <> value2 AND value <> value3
```

## MySQL NOT IN operator example

We'll use the `offices` table from the sample database to illustrate the `NOT IN` operator:

The following example uses the `NOT IN` operator to find the offices that do not locate in `France` and the `USA` :

```
SELECT
    officeCode,
    city,
    phone
FROM
    offices
WHERE
    country NOT IN ('USA' , 'France')
ORDER BY
    city;
```

Output:

```
+-----+-----+-----+
| officeCode | city  | phone          |
+-----+-----+-----+
| 7          | London | +44 20 7877 2041 |
| 6          | Sydney | +61 2 9264 2451  |
| 5          | Tokyo  | +81 33 224 5000  |
+-----+-----+-----+
3 rows in set (0.02 sec)
```

## Summary

- Use the MySQL `NOT IN` to check if a value doesn't match any value in a list.