

# 1.8

## AND, OR, NOT Logical Operators

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- *Logical operators* are used in the WHERE clause
- You may use multiple *logical operators* in a WHERE clause to create a Compound condition. The order of evaluation when multiple operators are used is shown in the table above.

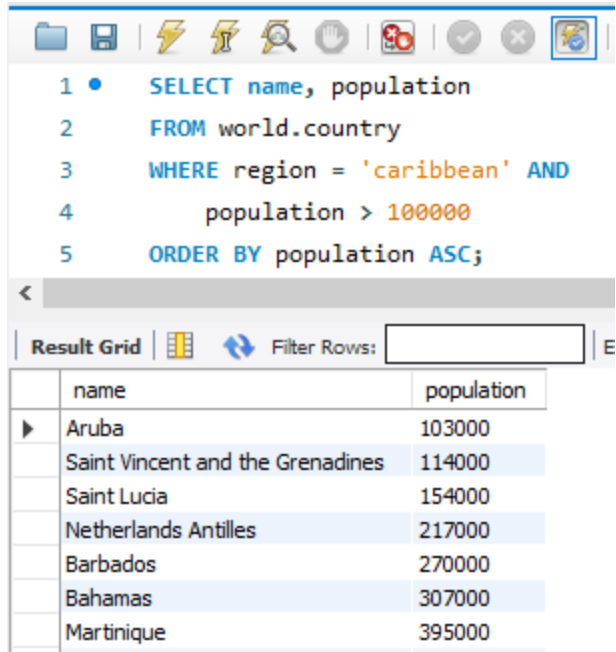
Table 6. Logical Operators

| Operator | Description                                                                     | Order of Evaluation |
|----------|---------------------------------------------------------------------------------|---------------------|
| NOT      | <b>( a NOT b ) - a must be present but b must NOT be present to be included</b> | <b>1</b>            |
| AND      | ( a AND b ) -If both <b>a</b> and <b>b</b> are present, item is included        | 2                   |
| OR       | ( a OR b ) - If either <b>a</b> OR <b>b</b> is present item is included         | 3                   |

*Example:*

```
USE world;
SELECT name, population
FROM country
WHERE region = 'caribbean'
AND population > 100000
ORDER BY population ASC;
```

*Results:*



The screenshot shows a MySQL query editor window. The query is as follows:

```
1 • SELECT name, population
2 FROM world.country
3 WHERE region = 'caribbean' AND
4     population > 100000
5 ORDER BY population ASC;
```

Below the query editor, there is a "Result Grid" section with a "Filter Rows" input field. The results are displayed in a table with two columns: "name" and "population".

|   | name                             | population |
|---|----------------------------------|------------|
| ▶ | Aruba                            | 103000     |
|   | Saint Vincent and the Grenadines | 114000     |
|   | Saint Lucia                      | 154000     |
|   | Netherlands Antilles             | 217000     |
|   | Barbados                         | 270000     |
|   | Bahamas                          | 307000     |
|   | Martinique                       | 395000     |



Miles, M. (2021). *Learning MySQL By Example*. EdTech Books.  
[https://edtechbooks.org/learning\\_mysql](https://edtechbooks.org/learning_mysql)