Common SQL Operators

The WHERE clause can be combined with the operators in this table to filter out data based on various conditions.

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| **SQL**  **Operator** | **Description** | **Syntax** | **Sample usage** |
| = | Used to retrieve only those records that match the condition specified | SELECT col1, col2… FROM table1 WHERE col1 = value | SELECT \* FROM film WHERE title = 'Chamber Italian' |
|  |  | Note: The = sign can be replaced by any comparison operator, IN, or LIKE |  |
| BETWEEN | Used to filter records | SELECT col1,col2.. | SELECT title, |
|  | based on a range of | FROM table1 | rental\_rate |
|  | numeric values | WHERE col1 BETWEEN | FROM film |
|  |  | smallvalue1 AND | WHERE rental\_rate |
|  |  | largevalue2 | BETWEEN 0 AND 2.99 |
| AND | Used to filter records based on additional column criteria after the WHERE clause has been used | SELECT col1, col2… FROM table1 WHERE col1 = value AND col2 = value | SELECT title, description, rating FROM film  WHERE rating = 'PG' AND rental\_rate <2 |
|  | Conditions separated by AND have to be TRUE for the record to be retrieved |  |  |
| OR | Used to filter records based on additional column criteria after the WHERE clause has been used | SELECT col1, col2… FROM table1 WHERE col1 = value OR col2 = value | SELECT title, description, rating FROM film  WHERE rating = 'PG' OR rental\_rate <2 |
|  | The OR operator retrieves a record even if any of the conditions separated by OR is TRUE |  |  |
| NOT | Used to pull records when the condition is NOT TRUE | SELECT col1, col2… FROM table1 WHERE col1 = value AND NOT col2 value | SELECT title, description, rating FROM film  WHERE rating = 'PG' AND NOT rental\_rate |

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|  |  |  | <2 |
| LIKE | Used to search for certain patterns in a string of characters (e.g., when you're searching for a specific word in a sentence) | SELECT col1, col2… FROM table1  WHERE col1 LIKE pattern (refer to the different wild cards in the Exercise) | SELECT \* FROM film WHERE title LIKE '%Italian%' |
| IN | Used to specify multiple values in a WHERE clause. IN is also shorthand for OR | SELECT col1, col2… FROM table1  WHERE col1 IN (value1, value2, value3) | SELECT \* FROM film WHERE rating IN ('PG', 'G' , 'PG-13') |