

## WHERE Clause and conditions

In SQL, the `WHERE` clause is used to filter the rows returned by a `SELECT` statement based on specified conditions. You can use various comparison operators like `=`, `<>` (not equal), `<`, `>`, `<=`, and `>=` to define these conditions. Here's an explanation of each operator with example code:

### 1. Equal (=) Operator:

- The equal operator is used to filter rows where a specified column is equal to a particular value.
- Example: Retrieve all recipes with a rate of 4.5.

```
SELECT * FROM recipe_details WHERE RecipeRate = 4.5;
```

### 2. Not Equal (<>) Operator:

- The not equal operator is used to filter rows where a specified column is not equal to a particular value.
- Example: Retrieve all recipes with a rate other than 4.5.

```
SELECT * FROM recipe_details WHERE RecipeRate <> 4.5;
```

### 3. Less Than (<) Operator:

- The less than operator is used to filter rows where a specified column is less than a particular value.
- Example: Retrieve all recipes with a rate less than 5.0.

```
SELECT * FROM recipe_details WHERE RecipeRate < 5.0;
```

### 4. Greater Than (>) Operator:

- The greater than operator is used to filter rows where a specified column is greater than a particular value.
- Example: Retrieve all recipes with a rate greater than 3.0.

```
SELECT * FROM recipe_details WHERE RecipeRate > 3.0;
```

### 5. Less Than or Equal (<=) Operator:

- The less than or equal operator is used to filter rows where a specified column is less than or equal to a particular value.
- Example: Retrieve all recipes with a rate less than or equal to 4.0.

```
SELECT * FROM recipe_details WHERE RecipeRate <= 4.0;
```

### 6. Greater Than or Equal (>=) Operator:

- The greater than or equal operator is used to filter rows where a specified column is greater than or equal to a particular value.
- Example: Retrieve all recipes with a rate greater than or equal to 3.5.

```
SELECT * FROM recipe_details WHERE RecipeRate >= 3.5;
```

These operators allow you to create precise conditions in your SQL queries to filter and retrieve the data that meets specific criteria from your database tables.