# **Operators in The WHERE Clause**

**Operators in The WHERE Clause:**

1. You can use other operators than the = operator to filter the search.
2. Example:

|  |
| --- |
| SELECT \* FROM Customers  WHERE CustomerID > 80; |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **ContactName** | **Address** | **City** | **PostalCode** | **Country** |
| 81 | Tradição Hipermercados | Anabela Domingues | Av. Inês de Castro, 414 | São Paulo | 05634-030 | Brazil |
| 82 | Trail's Head Gourmet Provisioners | Helvetius Nagy | 722 DaVinci Blvd. | Kirkland | 98034 | USA |
| 83 | Vaffeljernet | Palle Ibsen | Smagsløget 45 | Århus | 8200 | Denmark |
| 84 | Victuailles en stock | Mary Saveley | 2, rue du Commerce | Lyon | 69004 | France |

1. The following operators can be used in the WHERE clause:

|  |  |
| --- | --- |
| **Operator** | **Description** |
| = | Equal |
| > | Greater than |
| < | Less than |
| >= | Greater than or equal |
| <= | Less than or equal |
| <> | Not equal. **Note:** In some versions of SQL this operator may be written as != |
| BETWEEN | Between a certain range |
| LIKE | Search for a pattern |
| IN | To specify multiple possible values for a column |

1. Equal example:

|  |
| --- |
| SELECT \* FROM Products  WHERE Price = 18; |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ProductID** | **ProductName** | **SupplierID** | **CategoryID** | **Unit** | **Price** |
| 1 | Chais | 1 | 1 | 10 boxes x 20 bags | 18 |
| 35 | Steeleye Stout | 16 | 1 | 24 - 12 oz bottles | 18 |
| 39 | Chartreuse verte | 18 | 1 | 750 cc per bottle | 18 |
| 76 | Lakkalikööri | 23 | 1 | 500 ml | 18 |

1. Greater than example:

|  |
| --- |
| SELECT \* FROM Products  WHERE Price > 30; |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ProductID** | **ProductName** | **SupplierID** | **CategoryID** | **Unit** | **Price** |
| 8 | Northwoods Cranberry Sauce | 3 | 2 | 12 - 12 oz jars | 40 |
| 9 | Mishi Kobe Niku | 4 | 6 | 18 - 500 g pkgs. | 97 |
| 10 | Ikura | 4 | 8 | 12 - 200 ml jars | 31 |
| 12 | Queso Manchego La Pastora | 5 | 4 | 10 - 500 g pkgs. | 38 |
| 17 | Alice Mutton | 7 | 6 | 20 - 1 kg tins | 39 |
| 18 | Carnarvon Tigers | 7 | 8 | 16 kg pkg. | 62.5 |

1. Less than example:

|  |
| --- |
| SELECT \* FROM Products  WHERE Price < 30; |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ProductID** | **ProductName** | **SupplierID** | **CategoryID** | **Unit** | **Price** |
| 1 | Chais | 1 | 1 | 10 boxes x 20 bags | 18 |
| 2 | Chang | 1 | 1 | 24 - 12 oz bottles | 19 |
| 3 | Aniseed Syrup | 1 | 2 | 12 - 550 ml bottles | 10 |
| 4 | Chef Anton's Cajun Seasoning | 2 | 2 | 48 - 6 oz jars | 22 |
| 5 | Chef Anton's Gumbo Mix | 2 | 2 | 36 boxes | 21.35 |
| 6 | Grandma's Boysenberry Spread | 3 | 2 | 12 - 8 oz jars | 25 |

1. Greater than or equal example:

|  |
| --- |
| SELECT \* FROM Products  WHERE Price >= 30; |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ProductID** | **ProductName** | **SupplierID** | **CategoryID** | **Unit** | **Price** |
| 7 | Uncle Bob's Organic Dried Pears | 3 | 7 | 12 - 1 lb pkgs. | 30 |
| 8 | Northwoods Cranberry Sauce | 3 | 2 | 12 - 12 oz jars | 40 |
| 9 | Mishi Kobe Niku | 4 | 6 | 18 - 500 g pkgs. | 97 |
| 10 | Ikura | 4 | 8 | 12 - 200 ml jars | 31 |
| 12 | Queso Manchego La Pastora | 5 | 4 | 10 - 500 g pkgs. | 38 |
| 17 | Alice Mutton | 7 | 6 | 20 - 1 kg tins | 39 |
| 18 | Carnarvon Tigers | 7 | 8 | 16 kg pkg. | 62.5 |

1. Less than or equal example:

|  |
| --- |
| SELECT \* FROM Products  WHERE Price <= 30; |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ProductID** | **ProductName** | **SupplierID** | **CategoryID** | **Unit** | **Price** |
| 1 | Chais | 1 | 1 | 10 boxes x 20 bags | 18 |
| 2 | Chang | 1 | 1 | 24 - 12 oz bottles | 19 |
| 3 | Aniseed Syrup | 1 | 2 | 12 - 550 ml bottles | 10 |
| 4 | Chef Anton's Cajun Seasoning | 2 | 2 | 48 - 6 oz jars | 22 |
| 5 | Chef Anton's Gumbo Mix | 2 | 2 | 36 boxes | 21.35 |

1. Not equal Example. Note: In some versions of SQL this operator may be written as !=

|  |
| --- |
| SELECT \* FROM Products  WHERE Price <> 18; |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ProductID** | **ProductName** | **SupplierID** | **CategoryID** | **Unit** | **Price** |
| 2 | Chang | 1 | 1 | 24 - 12 oz bottles | 19 |
| 3 | Aniseed Syrup | 1 | 2 | 12 - 550 ml bottles | 10 |
| 4 | Chef Anton's Cajun Seasoning | 2 | 2 | 48 - 6 oz jars | 22 |
| 5 | Chef Anton's Gumbo Mix | 2 | 2 | 36 boxes | 21.35 |
| 6 | Grandma's Boysenberry Spread | 3 | 2 | 12 - 8 oz jars | 25 |
| 7 | Uncle Bob's Organic Dried Pears | 3 | 7 | 12 - 1 lb pkgs. | 30 |

1. Between a certain range example:

|  |
| --- |
| SELECT \* FROM Products  WHERE Price BETWEEN 50 AND 60; |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ProductID** | **ProductName** | **SupplierID** | **CategoryID** | **Unit** | **Price** |
| 51 | Manjimup Dried Apples | 24 | 7 | 50 - 300 g pkgs. | 53 |
| 59 | Raclette Courdavault | 28 | 4 | 5 kg pkg. | 55 |

1. Search for a pattern example:

|  |
| --- |
| SELECT \* FROM Customers  WHERE City LIKE 's%'; |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **ContactName** | **Address** | **City** | **PostalCode** | **Country** |
| 7 | Blondel père et fils | Frédérique Citeaux | 24, place Kléber | Strasbourg | 67000 | France |
| 15 | Comércio Mineiro | Pedro Afonso | Av. dos Lusíadas, 23 | São Paulo | 05432-043 | Brazil |
| 21 | Familia Arquibaldo | Aria Cruz | Rua Orós, 92 | São Paulo | 05442-030 | Brazil |
| 30 | Godos Cocina Típica | José Pedro Freyre | C/ Romero, 33 | Sevilla | 41101 | Spain |
| 35 | HILARIÓN-Abastos | Carlos Hernández | Carrera 22 con Ave. Carlos Soublette #8-35 | San Cristóbal | 5022 | Venezuel |

1. To specify multiple possible values for a column example:

|  |
| --- |
| SELECT \* FROM Customers  WHERE City IN ('Paris','London'); |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **ContactName** | **Address** | **City** | **PostalCode** | **Country** |
| 53 | North/South | Simon Crowther | South House 300 Queensbridge | London | SW7 1RZ | UK |
| 57 | Paris spécialités | Marie Bertrand | 265, boulevard Charonne | Paris | 75012 | France |