# **SQL AND Operator**

**SQL AND Operator:**

1. The WHERE clause can contain one or many AND operators.
2. The AND operator is used to filter records based on more than one condition, like if you want to return all customers from Spain that starts with the letter 'G':
3. Example:

|  |
| --- |
| SELECT \* FROM Customers  WHERE Country = 'Spain' AND CustomerName LIKE 'G%'; |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **ContactName** | **Address** | **City** | **PostalCode** | **Country** |
| 29 | Galería del gastrónomo | Eduardo Saavedra | Rambla de Cataluña, 23 | Barcelona | 08022 | Spain |
| 30 | Godos Cocina Típica | José Pedro Freyre | C/ Romero, 33 | Sevilla | 41101 | Spain |

1. The syntax:

|  |
| --- |
| SELECT column1, column2, ...  FROM table\_name  WHERE condition1 AND condition2 AND condition3 ...; |

**AND vs OR:**

1. The AND operator displays a record if all the conditions are TRUE.
2. The OR operator displays a record if any of the conditions are TRUE.

**All Conditions Must Be True:**

1. The following SQL statement selects all fields from Customers where Country is "Germany" AND City is "Berlin" AND PostalCode is higher than 12000:

|  |
| --- |
| SELECT \* FROM Customers  WHERE Country = 'Germany'  AND City = 'Berlin'  AND PostalCode > 12000; |

**Combining AND and OR:**

1. You can combine the AND and OR operators.
2. The following SQL statement selects all customers from Spain that starts with a "G" or an "R".
3. Make sure you use parenthesis to get the correct result. Example:

|  |
| --- |
| SELECT \* FROM Customers  WHERE Country = 'Spain' AND (CustomerName LIKE 'G%' OR CustomerName LIKE 'R%'); |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **ContactName** | **Address** | **City** | **PostalCode** | **Country** |
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1. Without parenthesis, the select statement will return all customers from Spain that starts with a "G", plus all customers that starts with an "R", regardless of the country value:

|  |
| --- |
| SELECT \* FROM Customers  WHERE Country = 'Spain'  AND CustomerName LIKE 'G%' OR CustomerName LIKE 'R%'; |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **ContactName** | **Address** | **City** | **PostalCode** | **Country** |
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| 30 | Godos Cocina Típica | José Pedro Freyre | C/ Romero, 33 | Sevilla | 41101 | Spain |
| 64 | Rancho grande | Sergio Gutiérrez | Av. del Libertador 900 | Buenos Aires | 1010 | Argentina |
| 65 | Rattlesnake Canyon Grocery | Paula Wilson | 2817 Milton Dr. | Albuquerque | 87110 | USA |
| 66 | Reggiani Caseifici | Maurizio Moroni | Strada Provinciale 124 | Reggio Emilia | 42100 | Italy |
| 67 | Ricardo Adocicados | Janete Limeira | Av. Copacabana, 267 | Rio de Janeiro | 02389-890 | Brazil |
| 68 | Richter Supermarkt | Michael Holz | Grenzacherweg 237 | Genève | 1203 | Switzerland |
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