# **SQL** Wildcards

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### **SQL** Wildcard Characters

A wildcard character is used to substitute one or more characters in a string.

Wildcard characters are used with the <u>LIKE</u> operator. The <u>LIKE</u> operator is used in a <u>WHERE</u> clause to search for a specified pattern in a column.

#### Wildcard Characters in MS Access

Symbol	Description	Example
*	Represents zero or more characters	bl* finds bl, black, blue, and blob
?	Represents a single character	h?t finds hot, hat, and hit
[]	Represents any single character within the brackets	h[oa]t finds hot and hat, but not hit
!	Represents any character not in the brackets	h[!oa]t finds hit, but not hot and hat
-	Represents any single character within the specified range	c[a-b]t finds cat and cbt
#	Represents any single numeric character	2#5 finds 205, 215, 225, 235, 245, 255, 265, 275, 285, and 295

#### Wildcard Characters in SQL Server

Symbol	Description	Example
%	Represents zero or more characters	bl% finds bl, black, blue, and blob
_	Represents a single character	h_t finds hot, hat, and hit
[]	Represents any single character within the brackets	h[oa]t finds hot and hat, but not hit
^	Represents any character not in the brackets	h[^oa]t finds hit, but not hot and hat
-	Represents any single character within the specified range	c[a-b]t finds cat and cbt

All the wildcards can also be used in combinations!

Here are some examples showing different LIKE operators with '%' and '\_' wildcards:

LIKE Operator	Description	
WHERE CustomerName LIKE 'a%'	Finds any values that starts with "a"	
WHERE CustomerName LIKE '%a'	Finds any values that ends with "a"	
WHERE CustomerName LIKE '%or%'	Finds any values that have "or" in any position	
WHERE CustomerName LIKE '_r%'	Finds any values that have "r" in the second position	
WHERE CustomerName LIKE 'a%'	Finds any values that starts with "a" and are at least 3 characters in length	
WHERE ContactName LIKE 'a%o'	Finds any values that starts with "a" and ends with "o"	

### Demo Database

The table below shows the complete "Customers" table from the Northwind sample database:

CustomerID	CustomerName	ContactName	Address	City	Pc
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	W
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68

7 Rlondel nère et Frédérique 24 place Strashourg 67

## Using the % Wildcard

The following SQL statement selects all customers with a City starting with "ber":

#### Example

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```
SELECT * FROM Customers WHERE City LIKE 'ber%';
```

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The following SQL statement selects all customers with a City containing the pattern "es":

#### Example

```
SELECT * FROM Customers
WHERE City LIKE '%es%';
```

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## Using the \_ Wildcard

The following SQL statement selects all customers with a City starting with any character, followed by "ondon":

#### Example

```
SELECT * FROM Customers
WHERE City LIKE '_ondon';
```

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The following SQL statement selects all customers with a City starting with "L", followed by any character, followed by "n", followed by any character, followed by "on":

#### Example

```
SELECT * FROM Customers
WHERE City LIKE 'L_n_on';
```

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## Using the [charlist] Wildcard

The following SQL statement selects all customers with a City starting with "b", "s", or "p":

#### Example

```
SELECT * FROM Customers WHERE City LIKE '[bsp]%';
```

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The following SQL statement selects all customers with a City starting with "a", "b", or "c":

#### Example

```
SELECT * FROM Customers WHERE City LIKE '[a-c]%';
```

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## Using the [!charlist] Wildcard

The two following SQL statements select all customers with a City NOT starting with "b", "s", or "p":

#### Example

```
SELECT * FROM Customers
WHERE City LIKE '[!bsp]%';
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```

Or:

### Example

```
SELECT * FROM Customers
WHERE City NOT LIKE '[bsp]%';
```

Try it Yourself »