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# Oracle REGEXP\_LIKE Examples

Regular expressions are patterns used to match character combinations in strings. Oracle 10g introduced support for regular expressions using different functions. This post focuses on the Oracle **REGEXP\_LIKE** function, and explains how to use it.

## Description

the Oracle REGEXP\_LIKE is used to perform a regular expression matching (rather than a simple pattern matching performed by LIKE).

## syntax

```
REGEXP_LIKE ( string expression, pattern [, matching parameter ] )
```

- *string expression* – the string expression.
- *pattern*  
([http://docs.oracle.com/cd/B12037\\_01/server.101/b10759/ap\\_posix001.htm#i690819](http://docs.oracle.com/cd/B12037_01/server.101/b10759/ap_posix001.htm#i690819)) – the regular expression matching pattern
- *match parameter*  
([http://docs.oracle.com/cd/B12037\\_01/server.101/b10759/conditions018.htm](http://docs.oracle.com/cd/B12037_01/server.101/b10759/conditions018.htm)) – lets you to change the default matching behaviour of the Oracle REGEXP\_LIKE function (for example, change the search from case sensitive to case insensitive).



# Basic Oracle REGEXP\_LIKE Examples

We'll start by creating a table called *Names*, based on its values, the following Oracle REGEXP\_LIKE examples will perform different regular expression searches.

Close

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TABLE

names

AS

SELECT last\_name AS NAME

FROM hr.employees

ORDER BY salary ;

Reset

Statement

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The following Oracle REGEXP\_LIKE example would retrieve all of the names that contain the letter 'z'. This Oracle SELECT statement actually puts no lower or upper limit on the number of letters before or after the letter 'z' (any number of characters is allowed), but requires the word to contain the letter 'z'.

```
SELECT *
FROM names
WHERE regexp_like (name , 'z') ;
```

NAME

-----  
 Lorentz  
 Gietz  
 Ozer

The next Oracle REGEXP\_LIKE example would retrieve all of the names that contain the letter-sequence 'be'. Again, this Oracle SELECT statement actually puts no lower or upper limit on the number of letters before or after the letter-sequence 'be' (any number of characters is allowed), but requires the word to contain the letter-sequence 'be'.

```
SELECT *  
FROM names  
WHERE regexp_like (name , 'be') ;
```

NAME

-----

Abel

Greenberg

## using the pipe (|) operator Powered by [\\_ \(https://www.enable.co.il\)](https://www.enable.co.il) [\\_ \(https://www.upress.co.il\)](https://www.upress.co.il)

The Pipe operator (|) is used to specify alternative matches. In the next Oracle REGEXP\_LIKE example we would use the pipe operator (|) in order to retrieve all of the names that contain the letter-sequence 'be' or 'ae'. This Oracle SELECT statement actually puts no lower or upper limit on the number of letters before or after the letter-sequence 'be' or 'ae' (any number of characters is allowed), but requires the word to contain these sequences.

```
SELECT *  
FROM names  
WHERE regexp_like (name , 'be|ae') ;
```

NAME

-----

Baer

Abel

Raphaely

Greenberg

By specifying the letter 'c' (as the third argument of the REGEXP\_LIKE function) we can make a case sensitive search (the default in Oracle).



```
SELECT *  
FROM names  
WHERE regexp_like (name , 'be|ae' , 'c' ) ;
```

NAME

-----

Baer

Abel

Raphaely

Greenberg [\\_\(https://www.enable.co.il\)](https://www.enable.co.il)

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And by specifying the letter 'i' (as the third argument of the REGEXP\_LIKE function) we can make a case insensitive search.

```
SELECT *  
FROM names  
WHERE regexp_like (name , 'be|ae' , 'i' ) ;
```

NAME

-----

Bell

Bernstein

Baer

Abel

Raphaely

Greenberg

## Using the Caret(^) operator

We can use the caret (^) operator to indicate a beginning-of-line character, in this REGEXP\_LIKE example we would retrieve all names that start with the letter-sequence 'be' or 'ba' (case insensitive search)

```
SELECT *
FROM names
WHERE regexp_like (name , '^be|^ba' , 'i' ) ;
```

```
NAME
-----
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Powered by.          _(https://www.upress.co.il)
Baider
Bell
Banda
Bates
Bernstein
Baer
```

## Using the Dollar (\$) operator

We can use the dollar (\$) operator to indicate an end-of-line character, in this REGEXP\_LIKE example we would retrieve all names that end with the letter-sequence 'es' or 'er' (case insensitive search).

```
SELECT *  
FROM names  
WHERE regexp_like (name , 'es$|er$' , 'i' ) ;
```

NAME

-----

Philtanker

Colmenares

Jones

Gates

Davies      [\\_\(https://www.enable.co.il\)](https://www.enable.co.il)

Nayer              [Powered by](#)              [\\_\(https://www.upress.co.il\)](https://www.upress.co.il)

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Stiles

Dellinger

Bates

Baer

## Using Square Brackets

We can use the Square Brackets to specify a matching list that should match any one of the expressions represented in it. The next Oracle REGEXP\_LIKE example would retrieve all names that contain the letters 'j' or 'z'.

```
SELECT *  
FROM names  
WHERE regexp_like (name , '[jz]') ;
```

NAME

-----

Rajs

Lorentz

Gietz

Ozer

Errazuriz [\\_\(https://www.enable.co.il\)](https://www.enable.co.il)

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This REGEXP\_LIKE example would retrieve all names that contain the letters 'b' or 'z' or 'E' (case sensitive search)

```
SELECT *  
FROM names  
WHERE regexp_like (name , '[bzE]') ;
```

NAME

-----

Tobias

Cabrio

Everett

Lorentz     \_(<https://www.enable.co.il>)

Pataballa             Powered by             \_(<https://www.upress.co.il>)

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Ernst

Cambrault

Gietz

McEwen

Cambrault

Next, we'll modify our last query and make it a case insensitive search :





```
SELECT *  
FROM names  
WHERE regexp_like (name , '[bzE]' , 'i') ;
```

NAME

-----

Philtanker

Zachary

Markle

Gee

Perkins     [\\_\(https://www.enable.co.il\)](https://www.enable.co.il)

Colmenares     [Powered by](#)     [\\_\(https://www.upress.co.il\)](https://www.upress.co.il)

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Patel

OConnell

Mikkilineni

Tobias

Seo

This Oracle REGEXP\_LIKE example would retrieve all the names that contain the letters 'a', 'b', or 'c' :

```
SELECT *  
FROM names  
WHERE regexp_like (name , '[abc]') ;
```

NAME

-----

Philtanker

Markle

Landry

Colmenares

Patel            [\\_\(https://www.enable.co.il\)](https://www.enable.co.il)

Vargas                    [Powered by](https://www.upress.co.il)                    [\\_\(https://www.upress.co.il\)](https://www.upress.co.il)

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Sullivan

Marlow

Grant

Matos

And instead of specifying the letters 'a', 'b' and 'c' separately, we can specify a range :

```
SELECT *  
FROM names  
WHERE regexp_like (name , '[a-c]') ;
```

NAME

-----

Philtanker

Markle

Landry

Colmenares

Patel            [\\_\(https://www.enable.co.il\)](https://www.enable.co.il)

Vargas                    [Powered by.                    \\_\(https://www.upress.co.il\)](https://www.upress.co.il)

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Sullivan

Marlow

Grant

Matos

The next Oracle REGEXP\_LIKE example would retrieve all names that contain a letter in the range of 'd' and 'g', followed by the letter 'a'.

```
SELECT *  
FROM names  
WHERE regexp_like (name , '[d-g]a') ;
```

NAME

-----

Vargas

Baida

Fleur

Banda

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## Using the Period (.) Operator

The period (.) operator matches any character except NULL, the next Oracle REGEXP\_LIKE example would retrieve all names that contain a letter in the range of 'b' and 'g', followed by any character, followed by the letter 'a'.

```
SELECT *  
FROM names  
WHERE regexp_like (name , '[b-g].[a]') ;
```

NAME

-----

Colmenares

Tobias

McCain

Sarchand

Sewall [\\_\(https://www.enable.co.il\)](https://www.enable.co.il)

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Sciarra

Cambrault

We can use the Period Operator to represent more than one character, the next Oracle REGEXP\_LIKE example would retrieve all names that contain a letter in the range of 'b' and 'g', followed by any two characters, followed by the letter 'a'.

```
SELECT *  
FROM names  
WHERE regexp_like (name , '[b-g]..[a]') ;
```

NAME

-----

De Haan

Kochhar

# Using the curly brackets

The curly brackets are used to specify an exact number of occurrences, for example display all names that contain double 'o' letters.

```
SELECT *  
FROM names  
WHERE regexp_like (name , '[o]{2}') ;
```

NAME

-----  
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