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# SQL REGEXP\_REPLACE

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Text data or strings, as the developers call them, is a major building block for any functional program. This is no different when it comes to storing the data. Nearly all databases contain some form of text information such as names, logs, etc.

As such, string manipulation is a common task which involves manipulating and transforming the string values to a specific format.

One of the most powerful functions in SQL that deals with string operations is the REGEXP\_REPLACE() function. This function allows us to perform the regular expression-based search and replace. If you are familiar with regular expression, you know how powerful this function can be.

In this tutorial, we will learn how we can use this function to search and replace the strings in SQL database.

### SQL REGEXP\_REPLACE

The SQL REGEXP\_REPLACE() is a function that allows us to perform the regular expression-based pattern matching and replacement within a given string.

Regular expression, or regex, is a set pattern and placeholders that allows us to match and manipulate the strings or substrings that follow a specific pattern.

It is good to keep in mind that each database engine may slightly implement the syntax and functionality of the function.

However, we can express its syntax as follows:

REGEXP\_REPLACE(input\_string, pattern, replacement [, flags]) The function parameters are expressed in the following:

1. input string – This specifies the string within which we wish to search and replace.

- 2. Pattern This specifies the regular expression pattern that we want to match within the input string.
- 3. Replacement This specifies the string that will replace the matched substrings.
- 4. Flags This is a set of optional flags that can help to modify the functionality of the regular expression. For example, we can enable the global search, case-insensitive matching, etc. This feature varies depending on the database engine.

## **Examples:**

To better understand how this function works, let us look at some examples on how to use it.

## **Example 1: Basic Usage**

Suppose we have a table that contains the employee information as shown in the following example output:

Consider a case where we want to replace the occurrence of the "Charlie" string to "Matthew". We can use the query as follows:

```
SELECT
REGEXP_REPLACE(first_name, 'Charlie', 'Matthew') AS new_name
FROM
employees;
```

The given example demonstrates a basic search and replace to find the "Charlie" string from the "first\_name" column and replace it with "Matthew".

#### Output:

## **Example 2: Case Insensitive Replacement**

In some cases, you may want to perform a case insensitive search. This means that the function will only look at the string content and not the actual casing of the alphanumeric letters.

In such a case, we use the "i" as the function flag as follows:

SELECT REGEXP\_REPLACE(product\_description, Samsung, Apple, 'i') AS modified FROM products;

By setting the flag to "i", the function matches all words that match "Samsung", regardless of the casing.

#### Conclusion

In this example, we explored how to use and work with the REGEXP\_REPLACE() function to perform the regular expression pattern-based search and replace.

#### **ABOUT THE AUTHOR**



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