MariaDB: CREATE TABLE AS Statement

This MariaDB tutorial explains how to use the MariaDB **CREATE TABLE AS statement** with syntax and examples.

Description

The MariaDB CREATE TABLE AS statement is used to create a table from an existing table by copying the existing table's columns.

It is important to note that when creating a table in this way, the new table will be populated with the records from the existing table (based on the SELECT Statement).

Syntax

The syntax for the CREATE TABLE AS statement in MariaDB is:

```
CREATE TABLE [ IF NOT EXISTS ] new_table [ AS ]
  SELECT expressions
  FROM existing_tables
  [WHERE conditions];
```

Parameters or Arguments

IF NOT EXISTS
Optional. If specified, the CREATE TABLE AS statement will not raise an error if the table already exists.

table_name
The name of the table that you wish to create.

AS
Optional. Whether you specify the *AS* keyword or not has no impact on the creation of the table.

expressions
The columns from the *existing_tables* that you would like created in the *new_table*. The column definitions from those columns listed will be transferred to the *new_table* that you create.

existing_tables
The existing tables from which to copy the column definitions and the associated records (as per the WHERE clause).

WHERE conditions

Optional. The conditions that must be met for the records to be copied to the *new_table*.

Note

- The column definitions from the *existing_tables* will be copied to the *new_table*.
- The *new_table* will be populated with records based on the conditions in the WHERE clause.

Example

Let's look at a MariaDB CREATE TABLE AS example that shows how to create a table by copying all columns from another table.

```
CREATE TABLE preferred_sites AS
  SELECT *
  FROM websites
  WHERE website_name in ('TechOnTheNet.com', 'CheckYourMath.com');
```

This example would create a new table called *preferred_sites* that included all columns from the *websites* table.

If there were records in the *websites* table, then the new *preferred_sites* table would be populated with the records returned by the SELECT statement.

Next, let's look at a CREATE TABLE AS example that shows how to create a table by copying selected columns from multiple tables.

For example:

```
CREATE TABLE stats AS
  SELECT pages.page_id AS "stat_id",
         websites.website_name, pages.file_size
  FROM websites
  INNER JOIN pages ON pages.website_id = websites.website_id
  WHERE website_name in ('TechOnTheNet.com', 'CheckYourMath.com');
```

This example would create a new table called *stats* based on column definitions from both the *websites* and *pages* tables. Notice in this example that we have <u>aliased</u> the *page_id* field as *stat_id* since we want the field in the new *stats* table to be called *stat_id* and not *page_id*.