

SQL RENAME Database

To rename a database in SQL use the ALTER DATABASE Statement with MODIFY NAME clause.

The ALTER command in SQL is used to make changes to a table or database.

SQL

```
ALTER DATABASE [current_database_name]  
MODIFY NAME = [new_database_name];
```

MYSQL

```
RENAME DATABASE [current_database_name] TO  
[new_database_name];
```

SQL Table

Table is a collection of data, organized in terms of rows and columns. In DBMS term, table is known as relation and row as tuple.

Note: A table has a specified number of columns, but can have any number of rows.

SQL TABLE Variable

The SQL Table variable is used to create, modify, rename, copy and delete tables.

```
create table "tablename"  
("column1" "data type",  
"column2" "data type",  
...  
"columnN" "data type");
```

```
CREATE table table_name  
(  
Column1 datatype (size),  
column2 datatype (size),  
.  
.  
columnN datatype(size)  
);
```

```
CREATE TABLE Employee (  
    EmployeeID INT PRIMARY KEY,  
    FirstName VARCHAR(50),  
    LastName VARCHAR(50),  
    Department VARCHAR(50),  
    Salary DECIMAL(10, 2)  
);
```

```
CREATE TABLE Customer(  
    CustomerID INT PRIMARY KEY,  
    CustomerName VARCHAR(50),  
    LastName VARCHAR(50),  
    Country VARCHAR(50),  
    Age INT CHECK (Age >= 0 AND Age <= 99),  
    Phone int(10)  
);
```

INSERT INTO table_name (column1, column2, ...) VALUES (value1, value2, ...);

```
INSERT INTO Customer (CustomerID, CustomerName, LastName, Country, Age, Phone)  
VALUES (1, 'Shubham', 'Thakur', 'India', '23', 'xxxxxxxxxx'),  
    (2, 'Aman ', 'Chopra', 'Australia', '21', 'xxxxxxxxxx'),  
    (3, 'Naveen', 'Tulasi', 'Sri lanka', '24', 'xxxxxxxxxx'),  
    (4, 'Aditya', 'Arpan', 'Austria', '21', 'xxxxxxxxxx'),  
    (5, 'Nishant. Salchichas S.A.', 'Jain', 'Spain', '22', 'xxxxxxxxxx');
```

Create Table From Another Table

We can also use CREATE TABLE to create a copy of an existing table. In the new table, it gets the exact column definition all columns or specific columns can be selected.

If an existing table was used to create a new table, by default the new table would be populated with the existing values from the old table.

```
CREATE TABLE new_table_name AS  
    SELECT column1, column2,...  
    FROM existing_table_name  
    WHERE ....;
```

```
CREATE TABLE SubTable AS  
SELECT CustomerID, CustomerName  
FROM customer;
```

Important Points About SQL CREATE TABLE Statement

- *CREATE TABLE statement is used to create new table in a database.*
- *It defines the structure of table including name and datatype of columns.*
- *The DESC table_name; command can be used to display the structure of the created table*
- *We can also add constraint to table like NOT NULL, UNIQUE, CHECK, and DEFAULT.*
- *If you try to create a table that already exists, MySQL will throw an error. To avoid this, you can use the **CREATE TABLE IF NOT EXISTS** syntax.*

