

## MySQL - Delete Query

### MySQL DELETE Statement

If we want to delete a record from any MySQL table, then we can use the SQL command DELETE FROM. This statement is a part of Data Manipulation Language in SQL as it interacts with the data in a MySQL table rather than the structure.

DELETE statement can be used to delete multiple rows of a single table and records across multiple tables.

However, in order to filter the records to be deleted, we can use the WHERE clause along with the DELETE statement.

We can use this command at the mysql> prompt as well as in any script like PHP, Node.js, Java, and Python.

### Syntax

Following is the basic SQL syntax of the DELETE command to delete data from a MySQL table –

## DELETE FROM table\_name [WHERE Clause]

- If the WHERE clause is not specified, then all the records will be deleted from the given MySQL table.
- We can specify any condition using the WHERE clause.
- We can delete records in a single table at a time.

The WHERE clause is very useful when you want to delete selected rows in a table.

### Deleting Data from a MySQL Table

We use the MySQL DELETE query to delete records from a database table. However, we can delete single, multiple rows at once or even delete all records from a table in a single query. Let us discuss them one by one further in this tutorial with appropriate examples.

### Example

First of all, let us create a table named CUSTOMERS using the following query –

```
CREATE TABLE CUSTOMERS (  
    ID INT NOT NULL,  
    NAME VARCHAR(20) NOT NULL,  
    AGE INT NOT NULL,  
    ADDRESS CHAR (25),  
    SALARY DECIMAL (18, 2),  
    PRIMARY KEY (ID)  
);
```

```
INSERT INTO CUSTOMERS  
(ID,NAME,AGE,ADDRESS,SALARY) VALUES  
(1, 'Ramesh', 32, 'Ahmedabad', 2000.00 ),  
(2, 'Khilan', 25, 'Delhi', 1500.00 ),  
(3, 'Kaushik', 23, 'Kota', 2000.00 ),  
(4, 'Chaitali', 25, 'Mumbai', 6500.00 ),  
(5, 'Hardik', 27, 'Bhopal', 8500.00 ),  
(6, 'Komal', 22, 'Hyderabad', 4500.00 ),  
(7, 'Muffy', 24, 'Indore', 10000.00 );
```

```
Select * From CUSTOMERS;
```

Now, let us delete a single record (ID = 1) from the CUSTOMERS table using the DELETE statement as follows –

```
DELETE FROM CUSTOMERS WHERE ID = 1;
```

```
Select * From CUSTOMERS;
```

### **Example**

Here, we are deleting records from previously created CUSTOMERS table whose ID is 2 and 3 –

```
DELETE FROM CUSTOMERS WHERE ID = 2 OR ID = 3;
```

```
Select * From CUSTOMERS;
```

## Deleting All Rows

If we want to delete all records from a MySQL table, simply execute the DELETE statement without using the WHERE clause. Following is the syntax –

```
DELETE FROM table_name;
```

### Example

The following query will delete all records from the CUSTOMERS table –

```
DELETE FROM CUSTOMERS;
```

```
Select * From CUSTOMERS;
```

## Delete Query in MySQL Using a Client Program

```
delete_query = "DELETE FROM table_name [WHERE  
Clause]"
```

```
cursorObj.execute(delete_query);
```

```
import mysql.connector
import datetime

#establishing the connection
connection = mysql.connector.connect(
    host='localhost',
    user='root',
    password='password',
    database='tut'
)

#Creating a cursor object
cursorObj = connection.cursor()

delete_query = "DELETE FROM tutorials_tbl WHERE tutorial_id = 6"
cursorObj.execute(delete_query)

connection.commit()

print("Row deleted successfully.")

cursorObj.close()

connection.close()
```

