

Create MySQL Tables



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To begin with, the table creation command requires the following details –

- Name of the table
- Name of the fields
- Definitions for each field

Syntax

Here is a generic SQL syntax to create a MySQL table –

```
CREATE TABLE table_name (column_name column_type);
```

Now, we will create the following table in the **TUTORIALS** database.

```
create table tutorials_tbl(  
    tutorial_id INT NOT NULL AUTO_INCREMENT,  
    tutorial_title VARCHAR(100) NOT NULL,  
    tutorial_author VARCHAR(40) NOT NULL,  
    submission_date DATE,  
    PRIMARY KEY ( tutorial_id )  
);
```

Here, a few items need explanation –

- Field Attribute **NOT NULL** is being used because we do not want this field to be NULL. So, if a user will try to create a record with a NULL value, then MySQL will raise an error.
- Field Attribute **AUTO_INCREMENT** tells MySQL to go ahead and add the next available number to the id field.
- Keyword **PRIMARY KEY** is used to define a column as a primary key. You can use multiple columns separated by a comma to define a primary key.

Creating Tables from Command Prompt

It is easy to create a MySQL table from the mysql> prompt. You will use the SQL command **CREATE TABLE** to create a table.

Example

Here is an example, which will create **tutorials_tbl** –

```
root@host# mysql -u root -p
Enter password:*****
mysql> use TUTORIALS;
Database changed
mysql> CREATE TABLE tutorials_tbl(
-> tutorial_id INT NOT NULL AUTO_INCREMENT,
-> tutorial_title VARCHAR(100) NOT NULL,
-> tutorial_author VARCHAR(40) NOT NULL,
-> submission_date DATE,
-> PRIMARY KEY ( tutorial_id )
-> );
Query OK, 0 rows affected (0.16 sec)
mysql>
```

NOTE – MySQL does not terminate a command until you give a semicolon (;) at the end of SQL command.

Creating Tables Using PHP Script

PHP uses **mysqli_query()** or **mysql_query()** function to create a MySQL table. This function takes two parameters and returns TRUE on success or FALSE on failure.

Syntax

```
$mysqli->query($sql,$resultmode)
```

Sr.No.	Parameter & Description
1	\$sql Required - SQL query to create a MySQL table.
2	\$resultmode Optional - Either the constant MYSQLI_USE_RESULT or MYSQLI_STORE_RESULT depending on the desired behavior. By default, MYSQLI_STORE_RESULT is used.

Example

Try the following example to create a table –

Copy and paste the following example as mysql_example.php –

```
<html>
  <head>
    <title>Creating MySQL Table</title>
  </head>
  <body>
    <?php
      $dbhost = 'localhost';
      $dbuser = 'root';
      $dbpass = 'root@123';
      $dbname = 'TUTORIALS';
      $mysqli = new mysqli($dbhost, $dbuser, $dbpass, $dbname);

      if($mysqli->connect_errno ) {
        printf("Connect failed: %s<br />", $mysqli->connect_error);
        exit();
      }
      printf('Connected successfully.<br />');

      $sql = "CREATE TABLE tutorials_tbl( ".
        "tutorial_id INT NOT NULL AUTO_INCREMENT, ".
        "tutorial_title VARCHAR(100) NOT NULL, ".
        "tutorial_author VARCHAR(40) NOT NULL, ".
        "submission_date DATE, ".
        "PRIMARY KEY ( tutorial_id )); ";
      if ($mysqli->query($sql)) {
        printf("Table tutorials_tbl created successfully.<br />");
      }
      if ($mysqli->errno) {
        printf("Could not create table: %s<br />", $mysqli->error);
      }

      $mysqli->close();
    ?>
  </body>
</html>
```

Output

Access the `mysql_example.php` deployed on apache web server and verify the output.

```
Connected successfully.
Table tutorials_tbl created successfully.
```
