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# PHP MySQL Create Tables

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In this tutorial you will learn how to create tables in MySQL database using PHP.

## Creating Tables inside MySQL Database Using PHP

In the previous chapter we've learned how to create a database on MySQL server. Now it's time to create some tables inside the database that will actually hold the data. A table organizes the information into rows and columns.

The SQL **CREATE TABLE** statement is used to create a table in database.

Let's make a SQL query using the **CREATE TABLE** statement, after that we will execute this SQL query through passing it to the PHP `mysqli_query()` function to finally create our table.

### Example

Procedural

Object Oriented

PDO

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```
1  <?php
2  /* Attempt MySQL server connection. Assuming you are running MySQL
3  server with default setting (user 'root' with no password) */
4  $link = mysqli_connect("localhost", "root", "", "demo");
5
6  // Check connection
7  if($link === false){
8      die("ERROR: Could not connect. " . mysqli_connect_error());
9  }
10
11 // Attempt create table query execution
12 $sql = "CREATE TABLE persons(
13     id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
14     first_name VARCHAR(30) NOT NULL,
15     last_name VARCHAR(30) NOT NULL,
16     email VARCHAR(70) NOT NULL UNIQUE
17 );";
18 if(mysqli_query($link, $sql)){
19     echo "Table created successfully.";
20 } else{
21     echo "ERROR: Could not able to execute $sql. " . mysqli_error($link);
22 }
23
24 // Close connection
25 mysqli_close($link);
26 ?>
```

The PHP code in the above example creates a table named *persons* with four columns *id*, *first\_name*, *last\_name* and *email* inside the *demo* database.

Notice that each field name is followed by a data type declaration; this declaration specifies what type of data the column can hold, whether integer, string, date, etc.

There are a few additional constraints (also called *modifiers*) that are specified after the column name in the preceding SQL statement, like **NOT NULL** , **PRIMARY KEY** , **AUTO\_INCREMENT** , etc. Constraints define rules regarding the values allowed in columns.

Please check out the tutorial on **SQL CREATE TABLE statement** for the detailed information about syntax, as well as the data types and constraints available in MySQL database system.

PHP EXAMPLES

- PHP Practice Examples
- PHP FAQ's Answers

PHP REFERENCE

- PHP String Functions
- PHP Array Functions
- PHP File System Functions
- PHP Date/Time Functions
- PHP Calendar Functions
- PHP MySQLi Functions
- PHP Filters
- PHP Error Levels
- More references



**Note:** Any number of line breaks may occur within a SQL statement, provided that any line break does not break off keywords, values, expression, etc.



**Tip:** Setting the PDO::ATTR\_ERRMODE attribute to PDO::ERRMODE\_EXCEPTION tells PDO to throw exceptions whenever a database error occurs.

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