PHP MySQL: Create A New Table

Summary: in this lab, you will learn how to use PHP to create a MySQL database table by using the PDO API.

The following are the steps to show you how to create a new table in a database:

- Open a database connection to the MySQL database server.
- Execute the CREATE TABLE statement to create new tables.

PHP MySQL: Create table example

We will create a new table named tasks in the classic models database with the following SQL script:

First, we create a class named CreateTableDemo that has DB configuration parameters. In the constructor of the CreateTableDemo class, we open a connection to the sample database by instantiating a new PDO object.

```
1 <?php
2
3 /**
   * PHP MySQL Create Table Demo
4
6 class CreateTableDemo {
7
8
       1++
       * database host
9
10
11
       const DB_HOST = 'localhost';
12
       1 * *
13
       * database name
14:
15
       const DB_NAME = 'classicmodels';
16
17
       1++
18
19
       * database user
20
21
       const DB_USER = 'root';
22
       * database password
23
24
25
       const DB_PASSWORD = '';
26
       1 * *
27
28
       * @var type
29
30
31
       private Spdo = null;
32
33
34
       * Open the database connection
35
       public function __construct() {
36
37
           // open database connection
           $conStr = sprintf("mysql:host=%s,dbname=%s", self::DB_HOST, self::DB_NAME);
38
39
               $this->pdo = new PDO($conStr, self::DB_USER, self::DB_PASSWORD);
40
41
           } catch (PDOException $e) {
42
               echo Se->getMessage();
43
44
       }
45
       //...
46
47 }
```

Next, in the destructor of the CreateTabledemo class, we close the database connection by assigning it the null value.

Then, define the createTaskTable() method to create the tasks table:

```
* create the tasks table
2
       * @return boolean returns true on success or false on failure
3
4
      public function createTaskTable() {
         sql = << EOSQL
6
7
              CREATE TABLE IF NOT EXISTS tasks (
                 task_id INT AUTO_INCREMENT PRIMARY KEY,
8
                 subject VARCHAR (255) DEFAULT NULL,
9
                 start_date DATE
                                              DEFAULT NULL,
10
11
                 end_date DATE
                                              DEFAULT NULL,
12
                 description VARCHAR (400)
                                              DEFAULT NULL
13
              );
14 EOSQL;
         return $this->pdo->exec($sql);
15
16
      }
```

To execute an SQL statement, you call the exec() method of the PDO object. After that, you can create an instance of the CreateTableDemo class and call the createTaskTable() method.

```
1 // create the tasks table
2 $obj = new CreateTableDemo();
3 $obj->createTaskTable();
```

Finally, you can check the classic models sample database to see if the tasks table has been created.

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