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## How to Make Simple CRUD in PHP and MySQL

Ahmed Khan (https://www.cloudways.com/blog/author/ahmed-khan/) - Updated on March 15, 2022 · 4 Min Read



In the previous installment of this MySQL series, I provided an overview of table manipulation in MySQL (https://www.cloudways.com/blog/how-to-create-alter-and-drop-table-in-mysql/). In this part of the tutorial series, I will teach you how to create CRUD in PHP and MySQL by executing *insert*, *update* and *delete* queries. These queries can be executed in the following ways.

## How To Create CRUD in PHP and MySQL

- 1. Single Query Execution
- 2. Multi Queries Execution
- 3. CRUD in PHP and MySQL With Prepared Statements
- 4. Select Query Execution
- 5. Update Query Using Prepared Statement
- 6. Delete Query Using Prepared Statement
- 7. Conclusion



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text=How

# Single Query Execution

It executes a single query at a time. Let's start by inserting data into our database which we have created previously on our hosting for PHP MySQL (https://www.cloudways.com/en/php-cloud-hosting.php). Create a new Makefile in the folder "practice" that we have previously created and name it crud.php. CRUD is the abbreviation for Create, Read, Update and Delesterqueries. Now in the new file, add this line at the top require\_once 'db\_connection.php' and create this new function:

in require\_once 'db\_connection.php'; 2. PHP 3. function SingleOuery(\$queri) 4. and 5. \$conn = OpenCon(); MySQL,&url=https://www.cloudways.com/blog/crud-7. if(\$conn->query(\$queri) === TRUE) 8. 9. mysal-10. CloseCon(\$conn); php/&vi@clouidhways)

```
12.
14.
        {
           return $conn->error;
15.
16
        }
17.
18.
```

The function takes a single parameter as your required query and executes it. Now, create a new file, index2.php in the same folder and at top add this line require\_once 'crud.php'. Now add these lines in your index2.php:

```
1.
      include 'crud.php';
2.
3.
      $sql = "INSERT INTO myguests(firstname,lastname,email,subject) VALUES ('w','w','t@gmail.com','First Insert Using Single Query')";
4.
5.
      $result = SingleOuery($sql);
6.
7.
      if($result === true)
8.
9.
        echo 'success';
10.
11.
     }
12
      else
13.
        echo $result:
14.
15
      3
```

Then open your browser and locate to localhost/practice/index2.php and you will find success if you have typed the right query.

### Multi Queries Execution

Using this method, you can execute more than one insert, select or update query. Let's start by writing a function for Multi Insert or Update queries. Write this new function in your crud.php file

```
function MultiQuery($quries)
2.
        $conn = OpenCon();
3.
4.
5.
        if($conn->multi_query($quries) === true)
 6
          CloseCon($conn);
8.
9.
          return true;
10.
11.
        else
12.
          return $conn->error;
13.
14.
        }
15
      }
```

The function takes a single parameter as your required query and executes it. Now, call this function in your index2.php:

```
include 'crud.php';
1.
2.
3.
      $sql = "INSERT INTO myguests(firstname, lastname, email, subject) VALUES ('a', 'a', 'a@gmail.com', 'First Insert Using Multiple Queries');";
      $$\sql := "INSERT INTO myguests(firstname,lastname,email,subject) VALUES ('b','b','b@gmail.com','First Insert Using Multiple Queries');";
      $$\text{sql} = "INSERT INTO myguests(firstname,lastname,email,subject) VALUES ('c','c','c@gmail.com','First Insert Using Multiple Queries');";
5.
6.
7.
      $result = MultiQuery($sql);
8.
                                                                       y
      if($result === true)
9.
                                                                      (https://twitter.com/intent/tweet?
10.
       echo 'success';
11.
                                                                      text=How
12
13
     }
                                                                       to
14.
      else
                                                                      Make
15.
16
       echo $result:
                                                                      Simple
                                                                      CRUD
```

Now, open your browser and locate to localhost/practice/index2.php and you will find success if you have typed the right query.

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# CRUD in PHP and MySQL With Prepared Statements

Prepared statements are used to execute same query multiple times with high efficiency. Now write this new function in your crud.php file:

```
function PreQuery($fname,$lname,$email,$subj)
2.
3.
        $conn = OpenCon();
        $query = $conn->prepare("INSERT INTO myguests(firstname, lastname, email, subject) VALUES (?,?,?,?)");
4.
5.
        $query->bind_param("ssss", $fname,$lname,$email,$subj);
6.
        if($query->execute())
7.
8.
9.
         CloseCon($conn);
10.
          return true;
11.
        else
12.
13.
14.
          return $conn->error;
15
16.
17.
18
```

We will be selecting data using prepared statements. Let's see how prepared statement works:

- 1. First, you prepare your statement like INSERT INTO myguests(firstname, lastname, email, subject) VALUES (?,?,?,?). We left ? where we want to insert the values.
- 2. Second, we will bind those values. The first parameter takes the data types of the value and after that, the values. The data type argument can be of four types.

```
1. i – integer
```

2. s - string

3. d - double

4. b - blob

3. We will execute it.

The function takes four parameters as your required value and executes it. Now, call this function in your index2.php:

```
1.
      include 'crud.php':
2.
3.
      $firstn = "Ahmed";
4.
      $email = "ahmed.khan@cloudways.com";
5.
      $subject = "Inserting Data using prepared Query";
6.
7.
      $result = PreQuery($firstn,$lastn,$email,$subject);
9.
      if($result === true)
10.
        echo 'success';
11.
12
13.
      }
14.
      else
                                                                       y
15.
16
        echo $result;
                                                                      (https://twitter.com/intent/tweet?
17.
      }
                                                                      text=How
```

Now, open your browser and locate to localhost/practice/index2.php antibyou will be successful if you have typed the right query.

# **Select Query Execution**

Make Simple

Now, let us select the data from our MySQL database using single que $\mathbf{v}_{\mathbf{R}}$  execution. Write a new function in your crud.php written below:

```
in
      function selectdata($sql)
1.
2.
                                                                       PHP
3.
        $conn = OpenCon();
                                                                       and
5.
        $result = $conn->query($sql);
                                                                       MySQL,&url=https://www.cloudways.com/blog/crud-
        if($result)
6.
7.
8.
          if($result->num_rows > 0)
                                                                       mysal-
10.
            return $result;
                                                                      php/&vi@clouidways)
11.
```

```
12.
          else
            return "zero";
14.
          }
15.
16.
        }
17.
        else
18.
        {
19.
          return $result->error:
20.
        }
21
      }
```

The function first checks that the query is executed successfully. If not, it sends an error. Second, it checks whether number of rows is greater than 0 or not. If so, it sends "Zero results found". Now, call this function in index2.php write the following code:

```
2.
     3.
      Name
4.
      Email
     Message
6.
     7.
     <?php
     include 'crud.php';
8.
9.
10.
     $sql = "SELECT * FROM `myguests`";
11.
12.
     $result = selectdata($sql);
13
     if($result != "zero")
14.
15.
     {
16.
17
     while($row = $result->fetch assoc())
18
     echo "";
19.
20.
     echo "" . $row['firstname'].' '.$row['lastname'] . "";
     echo "" . $row['email']. "";
21.
     echo "" . $row['subject']. "";
22
23
      echo "";
24.
25.
     }
26.
27.
28.
30.
     echo $result:
31.
32.
33
     ?>
```

After this, open your browser and locate to localhost/practice/index2.php and you will find all the data store in your database in your index2.php page.

# **Update Query Using Prepared Statement**

Let us write a new function in your crud.php file to execute update statement:

```
function UpdateQuery($column, $value, $id)
1.
2.
3.
      $conn = OpenCon();
4.
      $query = $conn->prepare("UPDATE myguests SET $column = ? WHERE id = ?");
5.
      $query->bind_param("si",$value,$id);
                                                                        ¥
6.
                                                                       (https://twitter.com/intent/tweet?
7.
      if($query->execute())
8.
                                                                       text=How
      CloseCon($conn);
10.
      return true;
                                                                        to
11.
                                                                       Make
12.
      else
13.
                                                                       Simple
14.
      return $conn->error;
15.
                                                                       CRUD
      }
16.
      }
```

The update parameter takes three parameters. One is the column name which needs to be updated, second is the value which will be replaced by the previous value and third is the ID of the row in which it will be changed. Now, execute this function in index2.php:

```
1. include 'crud.php';
2. in-
3.
4. $result = UpdateQuery("firstname", "David", 1);
5. f php/&v@clouinvays)

MySQL,&url=https://www.cloudways.com/blog/crud-
in-
mysql-
f php/&v@clouinvays)
```

```
7. {
8. echo 'success';
9.
10. }
11. else
12. {
13. echo $result;
14. }
```

When you've done that, open your browser and locate to localhost/practice/index2.php and you will be successful if there is no error.

# **Delete Query Using Prepared Statement**

Let us write a new function in your crud.php file to execute a delete statement:

```
1.
      function DeleteQuery($id)
3.
     $conn = OpenCon();
       $query = $conn->prepare("DELETE FROM myguests WHERE id = ?");
4.
5.
        $query->bind_param("i",$id);
6.
        //var_dump($query);
8.
        if($query->execute())
9.
10.
11.
         CloseCon($conn);
12.
         return true;
13.
       }
14.
        else
15.
16.
          return $conn->error;
17.
       }
     }
18.
```

The delete parameter takes one parameter which will be the ID of the row which needs to be deleted from the table. Now, execute this function in index2.php:

```
include 'crud.php';
      $result = DeleteQuery(1);
3.
4.
5.
      if($result === true)
7.
        echo 'success';
8.
9.
      }
10.
      else
11.
12.
        echo $result;
      }
13.
```

After that, open your browser and locate to localhost/practice/index2.php and you will find success if there is no error.

## Conclusion

In this tutorial, we have learned how to execute CRUD in PHP and MySQL using three different ways. In the next installment of this MySQL series, I will discuss MySQL data fetch clauses. (https://www.cloudways.com/blog/how-to-use-mysql-clauses-to-fetch-data/) Here is a short introduction and list of major topics in this MySQL series (https://www.cloudways.com/blog/setup-mysql-database-localhost/).

If you've got any questions about what we learned in this tutorial, feel free to comment below! Good luck! :

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# Ahmed Khan (https://www.cloudways.com/blog/author/ahmed-khan/)

Ahmed was a PHP community expert at Cloudways - A Managed PHP Hosting (https://www.cloudways.com/en/php-cloud-hosting.php) Cloud Platform. He is a software engineer with extensive knowledge in PHP and SEO. He loves watching Game of Thrones is his free time. Follow Ahmed on Twitter to stay updated with his works. You can email him at ahmed.khan@cloudways.com

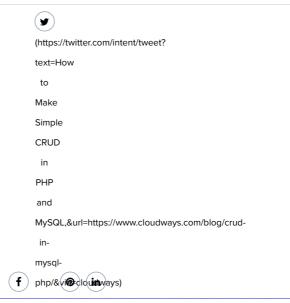
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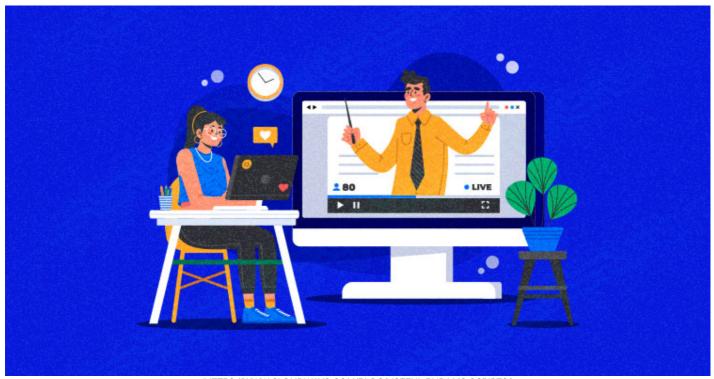


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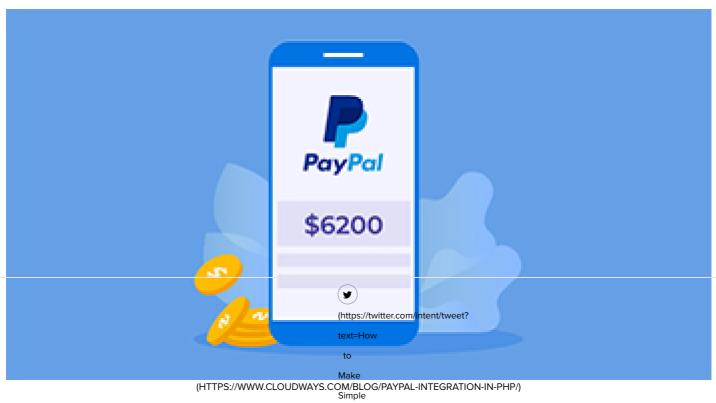
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