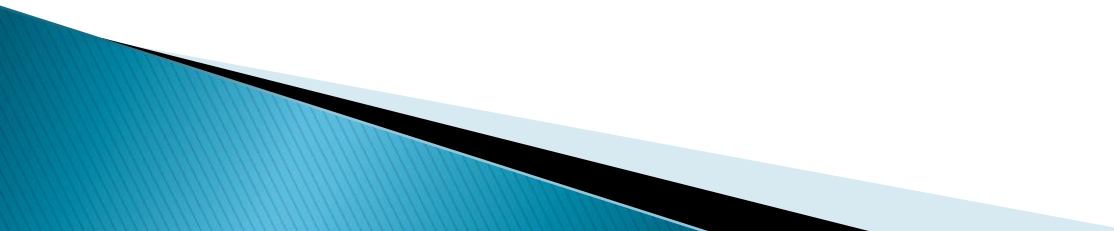


How to Use MySQL Stored Procedure with PHP

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Contents

- ▶ 1. Create MySQL stored procedure
 - ▶ 2. Connect MySQL server using mysqli
 - ▶ 3. Pass values and retrieve results
- 

1. Create MySQL Stored Procedure

```
mysql> delimiter |
mysql> create procedure test_select (NAME VARCHAR(10))
-> begin
->   select * from Student where Fname=NAME;
-> end
-> |
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> delimiter ;
mysql> call test_select('Eric');
```

StuID	LName	Fname	Age	Sex	Major	Advisor	city_code
1009	Tai	Eric	19	M	600	2192	YYZ
1026	Pang	Eric	19	M	520	7134	HKG
1028	Rugh	Eric	20	M	550	2311	ROC
1032	Brown	Eric	20	M	550	8772	ATL
1034	Epp	Eric	18	M	50	5718	BOS

5 rows in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

```
mysql>
```

2. Connect MySQL Server

- ▶ To use stored procedure in MySQL with PHP, you need to use **mysqli** instead of **mysql**
 - *23.4.14: Can MySQL 5.0 stored routines return result sets?*
 - *Stored procedures can, but stored functions cannot. If you perform an ordinary **SELECT** inside a stored procedure, the result set is returned directly to the client. You need to use the MySQL 4.1 (or above) client-server protocol for this to work. This means that — for instance — in PHP, you need to use the **mysqli** extension rather than the old **mysql** extension. (From MySQL.com)*

2. Connect MySQL Server

```
$mysqli = new mysqli("dbase.cs.jhu.edu", "your id", "your password", "your dbname");
```

```
/* check connection */
```

```
if (mysqli_connect_errno()) {
```

```
    printf("Connect failed: %s<br>", mysqli_connect_error());
```

```
    exit();
```

```
}
```

3. Pass Values and Retrieve Results

```
$name = 'Eric'; // You can set this with the one passed from web-interface
if ($mysqli->multi_query("CALL test_select('".$name."');")) {
    do {
        if ($result = $mysqli->store_result()) {
            while ($row = $result->fetch_row()) {
                printf("%s, %s, %s<br>", $row[0], $row[1], $row[2]);
            }
            $result->close();
        }

        if ($mysqli->more_results()) {
            printf("-----\n");
        }
    } while ($mysqli->next_result());
}
else {
    printf("<br>Error: %s\n", $mysqli->error);
}
```

3. Pass Values and Retrieve Results

- ▶ Running examples with name='Eric'
 - <http://ugrad.cs.jhu.edu/~minyang/demo4.php>
- ▶ It is possible to combine MySQL stored procedure with web-interfaces.
 - Please refer the manual and the demo page that was already provided.
 - <http://ugrad.cs.jhu.edu/~minyang>

Some References

- ▶ [MySQL FAQ: Stored Procedures and Functions](#)
 - ▶ [Introduction – MySQL Stored Procedures from databasejournal.com](#)
 - ▶ If you have any questions on how to use MySQL stored procedures with PHP, please send me an email. (myj@jhu.edu)
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