MySQL - Select Query

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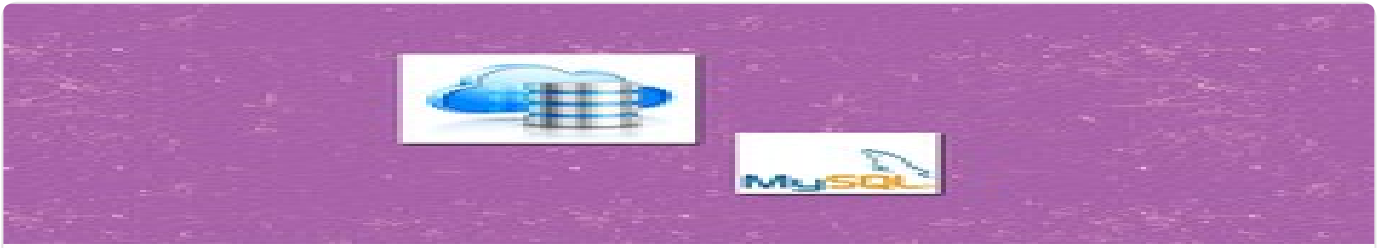

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The SQL **SELECT** command is used to fetch data from the MySQL database. You can use this command at mysql> prompt as well as in any script like PHP.

Syntax

Here is generic SQL syntax of SELECT command to fetch data from the MySQL table −

```
SELECT field1, field2,...fieldN
FROM table_name1, table_name2...
[WHERE Clause]
[OFFSET M ][LIMIT N]
```

- You can use one or more tables separated by comma to include various conditions using a WHERE clause, but the WHERE clause is an optional part of the SELECT command.
- You can fetch one or more fields in a single SELECT command.
- You can specify star (*) in place of fields. In this case, SELECT will return all the fields.
- You can specify any condition using the WHERE clause.
- You can specify an offset using **OFFSET** from where SELECT will start returning records. By default, the offset starts at zero.
- You can limit the number of returns using the **LIMIT** attribute.

Fetching Data from a Command Prompt

This will use SQL SELECT command to fetch data from the MySQL table **tutorials_tbl**.

Example

The following example will return all the records from the **tutorials_tbl** table −

```
root@host# mysql -u root -p password;
Enter password:*******
mysql> use TUTORIALS;
Database changed
mysql> SELECT * from tutorials_tbl
+-------------+----------------+-----------------+-----------------+
| tutorial_id | tutorial_title | tutorial_author | submission_date |
+-------------+----------------+-----------------+-----------------+
|           1 | Learn PHP      | John Poul       | 2007-05-21      |
|           2 | Learn MySQL    | Abdul S         | 2007-05-21      |
|           3 | JAVA Tutorial  | Sanjay          | 2007-05-21      |
+-------------+----------------+-----------------+-----------------+
```

```
3 rows in set (0.01 sec)

mysql>
```

Fetching Data Using a PHP Script

PHP uses **mysqli query()** or **mysql_query()** function to select records from 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	**$sql** Required - SQL query to select records from a MySQL table.
2	**$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 select a record from 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 = "SELECT tutorial_id, tutorial_title, tutorial_author, subm

            $result = $mysqli->query($sql);

            if ($result->num_rows > 0) {
               while($row = $result->fetch_assoc()) {
                  printf("Id: %s, Title: %s, Author: %s, Date: %d <br />",
                     $row["tutorial_id"],
                     $row["tutorial_title"],
                     $row["tutorial_author"],
                     $row["submission_date"]);
               }
            } else {
               printf('No record found.<br />');
            }
            mysqli_free_result($result);
            $mysqli->close();
         ?>
      </body>
   </html>
```

Output

Access the mysql_example.php deployed on apache web server and verify the output. Here we've entered multiple records in the table before running the select script.

```
Connected successfully.
Id: 1, Title: MySQL Tutorial, Author: Mahesh, Date: 2021
Id: 2, Title: HTML Tutorial, Author: Mahesh, Date: 2021
Id: 3, Title: PHP Tutorial, Author: Mahesh, Date: 2021
Id: 4, Title: Java Tutorial, Author: Mahesh, Date: 2021
Id: 5, Title: Apache Tutorial, Author: Suresh, Date: 2021
```