

PDO with MYSQL

1. Step 1: Connecting to MySQL and creating a database.

```
1 <?php
2 $servername = "localhost";
3 $username = "root";
4 $password = "";
5
6 try {
7     $conn = new PDO("mysql:host=$servername;", $username, $password);
8     //set the PDO error mode to exception
9
10    //create a database
11    $sql2 = "CREATE DATABASE myDBPDO";
12    // use exec() because no results are returned
13    $conn->exec($sql2);
14    echo "Database created successfully<br>";
15
16 }
17
18
19 catch(PDOException $e)
20 {
21     echo $e->getMessage();
22 }
23
24 $conn = null;
25 ?>
```

- As we can see in above figure the connection to a MySQL is made on line no.7. Where it expects 3 parameters server name, username and password.
- And then SQL statement is fired using PDOexec() function which creates a database.
- If there are any connection errors, a PDOException object will be thrown. You can catch the exception if you want to handle the error condition. We have to use try/catch statement.
- If we will not use catch statement, then in case of error, it terminate the script and display a back trace. This back trace will likely reveal the full database connection details, including the username and password.
- The connection remains active for the lifetime of that PDO object. To close the connection, you will assign NULL to the variable(\$conn) that holds the object.

How to use MySQL using PDO (Portable Data Object)?

2. Step 2: Creating a table and inserting few records.

```
6 try {
7     $conn = new PDO("mysql:host=$servername;dbname=mydbpd", $username, $password);
8     // sql to create table
9     $sql = "CREATE TABLE IF NOT EXISTS `category` (
10         `SrNo` int(11) NOT NULL AUTO_INCREMENT,
11         `Category` varchar(50) NOT NULL,
12         `SubCategory` varchar(100) NOT NULL,
13         PRIMARY KEY (`SrNo`)
14     ) ";
15     // use exec() because no results are returned
16     $conn->exec($sql);
17     echo "Table Category created successfully";
18     // Inserting a record
19     $sql1 = "INSERT INTO `category` (`SrNo`, `Category`, `SubCategory`) VALUES
20         (1, 'Electronics', 'Mobile'),
21         (2, 'Electronics', 'Tablet'),
22         (3, 'Electronics', 'IPad'),
23         (4, 'Electronics', 'ITab'),
24         (5, 'Electronics', 'Television'),
25         (6, 'Electronics', 'Camera'),
26         (7, 'Electronics', 'Laptop'),
27         (8, 'Electronics', 'LCD'),
28         (9, 'Electronics', 'Computer'),
29         (10, 'Books', 'Magazines'),
30         (11, 'Books', 'Journals'),
31         (12, 'Books', 'Course Books'),
32         (13, 'Garments', 'Kids Clothes');";
33     // use exec() because no results are returned
34     $conn->exec($sql1);
35     echo "New records created successfully";
36 }
37
```

- As we can see in above figure. On line no. 7 the database connectivity is done.
- Two queries "Create table" and "Insert" are fired using PDO exec () function. Hence the table is created having some values in it.

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3. Step 3: Selecting a result from a database.

```
6 try {
7     $conn = new PDO("mysql:host=$servername;dbname=mydbpd", $username, $password);
8         // Selecting a records
9     $stmt = $conn->prepare("SELECT * FROM category");
10    // For Executing prepared statement we will use below function
11    $stmt->execute();
12    //Fetching all the results
13    $result = $stmt->fetchAll();
14    foreach($result as $row)
15    {
16        // Displaying all the result
17        echo $row['Category']." ".$row['SubCategory'];
18        echo "<br>";
19    }
20 }
21
22
23 catch(PDOException $e)
24 {
25     echo $e->getMessage();
26 }
27
28 $conn = null;
```

- As we can see above, we have used a simple select query to select entries from a database.
- On line no. 13 we fetch all results returned by select query into a \$result variable.
- By using foreach loop we will display each record.