



# Website Design and Development

PDO

# Open and Close a Connection in MySQL

Open a Connection:

```
$pdo = new PDO("mysql:host=$host;dbname=$dbname",$user,$pass);
```

Close a connection:

```
$pdo = null;
```

# Insert Data from MySQL using PHP

```
$statement = $pdo->prepare($sql);  
$statement->bindParam($param, $var, $type, $maxLength)  
$statement->execute($data);
```

Example:

```
$sql = "INSERT INTO department(name, hours, faculty_number) VALUES(:name,  
:hours, :faculty_number)";  
  
$statement = $pdo->prepare($sql);  
$name = 'Computer Engineering'; $hours = 166; $faculty_number = 3;  
$statement->bindParam(':name', $name, PDO::PARAM_STR);  
$statement->bindParam(':hours', $hours, PDO::PARAM_INT);  
$statement->bindParam(':faculty_number', $faculty_number, PDO::PARAM_INT);  
  
$statement = $statement->execute();
```

# Update Data from MySQL using PHP

```
$statement = $pdo->prepare($sql);  
$statement->bindParam($param, $var, $type, $maxLength);  
$statement->execute();
```

Example:

```
$sql = "UPDATE department SET hours = :hours where name = :name";  
  
$statement = $pdo->prepare($sql);  
$hours = 170; $name = 'Computer Engineering';  
$statement->bindParam(':hours', $hours, PDO::PARAM_INT);  
$statement->bindParam(':name', $name, PDO::PARAM_STR);  
$statement->execute();
```

# Delete Data from MySQL using PHP

```
$statement = $pdo->prepare($sql);  
$statement->bindParam($param, $var, $type, $maxLength);  
$statement->execute();
```

Example:

```
$sql = "DELETE FROM department where name = :name";  
$name = 'Computer Engineering';  
  
$statement = $pdo->prepare($sql);  
$statement->bindParam(':name', $name, PDO::PARAM_STR);  
$statement->execute();
```

# Select Data from MySQL using PHP

```
$statement = $pdo->prepare($sql);  
$statement->bindParam($param, $var, $type, $maxLength);  
$statement->execute();  
$statement->fetchAll(); //or $statement->fetch();
```

## Example:

```
$sql = "SELECT number, first_name, last_name FROM student where dept_name =  
:dept_name";  
$statement = $pdo->prepare($sql);  
$dept_name = 'Computer Science';  
$statement->bindParam(':dept_name', $dept_name, PDO::PARAM_STR);  
$statement->execute();  
$data = $statement->fetchAll();  
foreach ($data as $row) {  
    echo $row['first_name'] . " ". $row['last_name'] . "<br>";  
}
```

# References

<https://www.php.net/manual/en/index.php>

<https://phpdelusions.net/pdo>

Robin Nixon, Learning PHP, MySQL, JavaScript, and CSS, 2013

Mike McGrath, PHP & My SQL in easy steps, 2012.

# Thank you