

Accessing MySQL in PHP

Basic Connection Algorithm

```
<?php

try {
    $connString = "mysql:host=localhost;dbname=bookcrm";
    $user = "testuser";
    $pass = "mypassword";

    $pdo = new PDO($connString,$user,$pass);
    $pdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);

    $sql = "SELECT * FROM Categories ORDER BY CategoryName";
    $result = $pdo->query($sql);

    while ($row = $result->fetch()) {
        echo $row['ID'] . " - " . $row['CategoryName'] . "<br/>";
    }

    $pdo = null;
}
```

1

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Working with Parameters – Technique 1 ? Placeholders

```
$sql = "INSERT INTO books (ISBN10, Title, CopyrightYear, ImprintId,  
ProductionStatusId, TrimSize, Description) VALUES (?, ?, ?, ?,  
?, ?, ?)";
```

```
$statement = $pdo->prepare($sql);  
$statement->bindValue(1, $_POST['isbn']);  
$statement->bindValue(2, $_POST['title']);  
$statement->bindValue(3, $_POST['year']);  
$statement->bindValue(4, $_POST['imprint']);  
$statement->bindValue(5, $_POST['status']);  
$statement->bindValue(6, $_POST['size']);  
$statement->bindValue(7, $_POST['desc']);  
$statement->execute();
```

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Working with Parameters – Technique 1 ? Placeholders *with Array*

/ can pass an array, to be used in order */*

```
$sql = "INSERT INTO books (ISBN10, Title, CopyrightYear, ImprintId,  
ProductionStatusId, TrimSize, Description) VALUES (?,?,?,?  
?,?,?);";
```

```
$statement = $pdo->prepare($sql);
```

```
$statement->execute array(array($_POST['isbn'],  
$_POST['title'], $_POST['year'], $_POST['imprint'], $_POST['status'],  
$_POST['size'], $_POST['desc'])));
```

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Working with Parameters – Technique 2 - named parameters

```
$sql = "INSERT INTO books (ISBN10, Title, CopyrightYear, ImprintId,
ProductionStatusId, TrimSize, Description) VALUES (:isbn,
:title, :year, :imprint, :status, :size, :desc) ";
$stmt = $pdo->prepare($sql);
$stmt->bindValue(':isbn', $_POST['isbn']);
$stmt->bindValue(':title', $_POST['title']);
$stmt->bindValue(':year', $_POST['year']);
$stmt->bindValue(':imprint', $_POST['imprint']);
$stmt->bindValue(':status', $_POST['status']);
$stmt->bindValue(':size', $_POST['size']);
$stmt->bindValue(':desc', $_POST['desc']);
$stmt->execute();
```

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Working with Parameters – Technique 2 - named parameters *with Array*

```
$sql = "INSERT INTO books (ISBN10, Title, CopyrightYear, ImprintId,
ProductionStatusId, TrimSize, Description) VALUES (:isbn,
:title, :year, :imprint, :status, :size, :desc) ";
$statement = $pdo->prepare($sql);
$statement->execute(array(':isbn' => $_POST['isbn'],
                        ':title'=> $_POST['title'],
                        ':year'=> $_POST['year'],
                        ':imprint'=> $_POST['imprint'],
                        ':status'=> $_POST['status'],
                        ':size'=> $_POST['size']
                        ':desc'=> $_POST['desc']));
```