

# Référence CRUD en PHP et MySQL

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## INTRODUCTION

Cette référence présente un résumé des opérations CRUD (Create, Read, Update, Delete) avec **PDO** et **MySQLi** (procédural et orienté objet).



## CREATE

### </> PDO

```
<?php
try {
    $pdo = new PDO('mysql:host=localhost;dbname=testdb','user','pass');
    $pdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);

    $sql = "INSERT INTO utilisateurs (nom, email) VALUES (:nom, :email)";
    $stmt = $pdo->prepare($sql);
    $stmt->execute([
        ':nom' => 'Dupont',
        ':email' => 'dupont@example.com'
    ]);
    echo "Insertion (PDO) réussie !";
} catch (PDOException $e) {
    echo "Erreur PDO : " . $e->getMessage();
}
?>
```

### </> MySQLi (Procédural)

```
<?php
$cnx = mysqli_connect('localhost','user','pass','testdb');
if (!$cnx) {
    die("Connexion MySQLi échouée: " . mysqli_connect_error());
}

$sql = "INSERT INTO utilisateurs (nom, email) VALUES ('Martin','martin@example.com)";
if (mysqli_query($cnx, $sql)) {
    echo "Insertion (MySQLi procédural) réussie !";
} else {
    echo "Erreur MySQLi: " . mysqli_error($cnx);
}

mysqli_close($cnx);
?>
```

## MySQLi (Orienté Objet)

```
<?php
$mysqli = new mysqli('localhost', 'user', 'pass', 'testdb');
if ($mysqli->connect_error) {
    die("Erreur de connexion: " . $mysqli->connect_error);
}

$sql = "INSERT INTO utilisateurs (nom, email) VALUES ('Durand','durand@example.com')";
if ($mysqli->query($sql) === TRUE) {
    echo "Insertion (MySQLi OO) réussie !";
} else {
    echo "Erreur: " . $mysqli->error;
}

$mysqli->close();
?>
```



## READ

## PDO

```
<?php
try {
    $pdo = new PDO('mysql:host=localhost;dbname=testdb','user','pass');
    $pdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);

    $sql = "SELECT id, nom, email FROM utilisateurs";
    $stmt = $pdo->query($sql);

    while ($row = $stmt->fetch(PDO::FETCH_ASSOC)) {
        echo $row['id']." - ".$row['nom']." - ".$row['email']."\n";
    }
} catch (PDOException $e) {
    echo "Erreur PDO : " . $e->getMessage();
}
?>
```

## MySQLi (Procédural)

```
<?php
$cnx = mysqli_connect('localhost','user','pass','testdb');
if (!$cnx) {
    die("Connexion échouée: " . mysqli_connect_error());
}

$sql = "SELECT id, nom, email FROM utilisateurs";
$result = mysqli_query($cnx, $sql);

while ($row = mysqli_fetch_assoc($result)) {
    echo $row['id']." - ".$row['nom']." - ".$row['email']."\n";
}

mysqli_close($cnx);
?>
```

## MySQLi (Orienté Objet)

```
<?php
$mysqli = new mysqli('localhost','user','pass','testdb');
if ($mysqli->connect_error) {
    die("Erreur de connexion: " . $mysqli->connect_error);
}

$sql = "SELECT id, nom, email FROM utilisateurs";
if ($result = $mysqli->query($sql)) {
    while ($row = $result->fetch_assoc()) {
        echo $row['id']." - ".$row['nom']." - ".$row['email']."\n";
    }
    $result->free();
}

$mysqli->close();
?>
```



## UPDATE

### </> PDO

```
<?php
try {
    $pdo = new PDO('mysql:host=localhost;dbname=testdb','user','pass');
    $pdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);

    $sql = "UPDATE utilisateurs SET email = :email WHERE id = :id";
    $stmt = $pdo->prepare($sql);
    $stmt->execute([
        ':email' => 'newmail@example.com',
        ':id' => 1
    ]);
    echo "Mise à jour (PDO) réussie !";
} catch (PDOException $e) {
    echo "Erreur PDO : " . $e->getMessage();
}
?>
```

### </> MySQLi (Procédural)

```
<?php
$cnx = mysqli_connect('localhost','user','pass','testdb');
if (!$cnx) {
    die("Connexion échouée: " . mysqli_connect_error());
}

$sql = "UPDATE utilisateurs SET email='updated@example.com' WHERE id=2";

if (mysqli_query($cnx, $sql)) {
    echo "Mise à jour (MySQLi procédural) réussie !";
} else {
    echo "Erreur: " . mysqli_error($cnx);
}

mysqli_close($cnx);
?>
```

## MySQLi (Orienté Objet)

```
<?php
$mysqli = new mysqli('localhost','user','pass','testdb');
if ($mysqli->connect_error) {
    die("Erreur de connexion: " . $mysqli->connect_error);
}

$sql = "UPDATE utilisateurs SET email='oo_updated@example.com' WHERE id=3";
if ($mysqli->query($sql) === TRUE) {
    echo "Mise à jour (MySQLi OO) réussie !";
} else {
    echo "Erreur: " . $mysqli->error;
}

$mysqli->close();
?>
```

## DELETE

### PDO

```
<?php
try {
    $pdo = new PDO('mysql:host=localhost;dbname=testdb','user','pass');
    $pdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);

    $sql = "DELETE FROM utilisateurs WHERE id = :id";
    $stmt = $pdo->prepare($sql);
    $stmt->execute([':id' => 4]);
    echo "Suppression (PDO) réussie !";
} catch (PDOException $e) {
    echo "Erreur PDO : " . $e->getMessage();
}
?>
```

## MySQLi (Procédural)

```
<?php
$cnx = mysqli_connect('localhost','user','pass','testdb');
if (!$cnx) {
    die("Connexion échouée: " . mysqli_connect_error());
}

$sql = "DELETE FROM utilisateurs WHERE id=5";
if (mysqli_query($cnx, $sql)) {
    echo "Suppression (MySQLi procédural) réussie !";
} else {
    echo "Erreur: " . mysqli_error($cnx);
}

mysqli_close($cnx);
?>
```

## MySQLi (Orienté Objet)

```
<?php
$mysqli = new mysqli('localhost','user','pass','testdb');
if ($mysqli->connect_error) {
    die("Erreur de connexion: " . $mysqli->connect_error);
}

$sql = "DELETE FROM utilisateurs WHERE id=6";
if ($mysqli->query($sql) === TRUE) {
    echo "Suppression (MySQLi OO) réussie !";
} else {
    echo "Erreur: " . $mysqli->error;
}

$mysqli->close();
?>
```