
PHP: Mysql

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Introduction

PHP permet de manipuler les bases de données MySQL en utilisant:

- L'extension `mysql_` : Fonctions permettant d'accéder et manipuler une base de données MySQL. Leur nom commence par `mysql_`.
 - Vieilles fonctions « obsolètes »
 - Utilisation déconseillée
- L'extension `mysqli_` (le "i" improved) : Fonctions améliorées d'accès à MySQL. Elles proposent plus de fonctionnalités.
- L'extension PDO (PHP Data Objects). un outil complet qui permet d'accéder à n'importe quel type de base de données.

Créer une Base de données

localhost/phpmyadmin/index.php?route=/server/databases&server=1

phpMyAdmin

Recent Favorites

New

- information_schema
- mysql
- performance_schema
- phpmyadmin
- test

Server: localhost

Databases SQL Status User accounts Export Import Settings Replication

Databases

Create database

gidb utf8mb4_general_ci Create

Database	Collation	Action
<input type="checkbox"/> information_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> mysql	utf8mb4_general_ci	Check privileges
<input type="checkbox"/> performance_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> phpmyadmin	utf8_bin	Check privileges
<input type="checkbox"/> test	utf8mb4_general_ci	Check privileges

Total: 5

Check all With selected: [Drop](#)

Note: Enabling the database statistics here might cause heavy traffic between the web server and the MySQL server.

- [Enable statistics](#)

CREATE DATABASE gidb

Créer une Table

The screenshot shows the phpMyAdmin interface. On the left is a navigation tree with a 'New' button and a tree structure containing 'gidb' (with a 'New' button) and 'user'. Below the tree are 'Recent' and 'Favorites' buttons. The main area has a breadcrumb trail: 'Server: localhost >> Database: gidb >> Table: user'. A toolbar contains buttons for 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', and 'Operations'. The 'Table structure' view is active, showing a table with 4 columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 username	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	2 email	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 password	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	4 score	int(11)			No	None			Change Drop More

Below the table, there are controls for 'Check all', 'With selected:', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', and 'Spatial'. There are also buttons for 'Add to central columns' and 'Remove from central columns'. At the bottom, there are buttons for 'Print', 'Propose table structure', 'Track table', 'Move columns', and 'Normalize'. A form for adding a column is visible: 'Add' followed by a dropdown menu showing '1', the text 'column(s)', another dropdown menu showing 'after score', and a 'Go' button. At the very bottom, there is an 'Indexes' button.

PDO: Se connecter à une base de données

```
try {  
    $bdd = new  
PDO('mysql:host=localhost;dbname=gi_db, 'root',  
'');  
} catch(PDOException $e) {  
    echo $e->getMessage();  
}
```

```
<?php
```

```
    try {
```

```
        $db = new PDO('mysql:host=localhost;dbname=gidb',  
'root', '');
```

```
        $req = $db->prepare('SELECT * FROM user');
```

```
        $req->execute();
```

```
        $res = $req->fetchAll();
```

```
        foreach ($res as $r) {
```

```
            print_r(r);
```

```
        }
```

```
    }
```

```
?>
```

```
<?php
    try {
        $db = new PDO('mysql:host=localhost;dbname=gidb',
        'root', '');
        $req = $db->prepare('SELECT * FROM user WHERE
username=:u');
        $req->execute(['u'=>'mohammed']);
        $res = $req->fetchAll();
        foreach ($res as $r) {
            ...
        }
    }
?>
```

Insertion

```
<?php
    try {
        $db = new PDO('mysql:host=localhost;dbname=gidb', 'root', '');
        $sql = 'INSERT INTO user(username, password, email) VALUES (:u, :p,
:e)';

        $req = $db->prepare($sql);
        $req->execute(['u'=>'amale', 'p'=>'1222', 'e'=>'a@a.a']);
        $res = $req->fetchAll();
    } catch(PDOException $e) {
        echo $e->getMessage();
    }
?>
```


Update

```
<?php
    try {
        $db = new PDO('mysql:host=localhost;dbname=gidb', 'root', '');
        $sql = 'UPDATE user SET password= :p, email= :e WHERE username =
:u';
        $req = $db->prepare($sql);
        $req->execute(['u'=>'amale', 'p'=>'0000', 'e'=>'a@a.a']);
        $res = $req->fetchAll();
    } catch(PDOException $e){
        echo $e->getMessage();
    }
}
```

?>

DELETE

```
<?php
    try {
        $db = new PDO('mysql:host=localhost;dbname=gidb', 'root', '');
        $sql = 'DELETE FROM user WHERE username = :u';
        $req = $db->prepare($sql);
        $req->execute(['u'=>'amale']);
        $res = $req->fetchAll();
    } catch(PDOException $e) {
        echo $e->getMessage();
    }
?>
```