

# Programmation MySQL en PHP

---



IUT Béziers, dépt. R&T © 2013-2022

<http://www.borelly.net/>

[Christophe.BORELLY@umontpellier.fr](mailto:Christophe.BORELLY@umontpellier.fr)

# Généralités

---

- Interface WEB de gestion d'une base de données (phpMyAdmin)
- Serveur MySQL
- Serveur WEB (Apache + PHP)
- Programmation MySQL en PHP : 3 librairies
  - **mysql**\_xxx() jusqu'à version 4.1.3
  - **mysqli**\_xxx() Improved – depuis version 4.1.3 et plus récent
  - **PDO** (PHP Data Objects, la couche d'abstraction de base de données pour PHP)

# MySQLi (Improved)

---

- `$mysqli=new mysqli($host,$user,$pass,$db) ;`
- `$mysqli->set_charset() ;`
- `$res=$mysqli->query($sql) ;`
- `$row=$res->fetch_assoc() ;`
- `$row=$res->fetch_row() ;`
- `$res->free() ;`
- `$mysqli->close() ;`

# Exemple MySQLi

---

```
<?php
$mysqli=new mysqli('localhost','user','passwd','base');
if ($mysqli->connect_error) exit(1);
$mysqli->set_charset('utf8');
$sql="SELECT * FROM personnes";
if ($res=$mysqli->query($sql)) {
    while($row=$res->fetch_assoc()) {
        printf("Nom : [%s]\n",$row['nom']);
    }
    $res->free();
}
else {
    printf("ERREUR : %s !!!\n",$mysqli->error);
}
$mysqli->close();
?>
```

# PDO (PHP Data Objects)

---

- `$pdo=new PDO('mysql:host=hhhh;dbname=bbbb',  
                  $user,$pass) ;`
- `$statement=$pdo->query($sql) ;`
- `$statement=$pdo->prepare($sql) ;`
- `$statement->execute() ;`
- `$row=$statement->fetch(PDO::FETCH_ASSOC) ;`
- `$row=$statement->fetch(PDO::FETCH_NUM) ;`
- `$statement->closeCursor() ;`
- `$e->getMessage() ;`

# Exemple PDO

---

```
<?php
try {
    $pdo=new PDO( 'mysql:host=localhost;charset=utf8;
                  dbname=base', 'user', 'passwd' );
    $statement=$pdo->query( "SELECT * FROM personnes" );
    while($row=$statement->fetch(PDO::FETCH_ASSOC)) {
        printf("Nom : [%s]\n", $row['nom']);
    }
    $statement->closeCursor();
}
catch (Exception $e) {
    printf(, "ERREUR : %s !!!\n", $e->getMessage());
}
?>
```

# Exemple PDO (2)

---

```
....  
$st=$pdo->prepare('SELECT * FROM fruit  
    WHERE calories < ? AND couleur = ?');  
$st->execute(array(150, 'rouge'));  
....  
  
....  
$st=$pdo->prepare('SELECT * FROM fruit  
    WHERE calories < :calories AND couleur = :couleur');  
$st->execute(array('calories'=>150, 'couleur'=>'rouge')) ;  
....
```

# Références

---

- <http://www.php.net/manual/fr/>
- <http://dev.mysql.com/doc/refman/8.0/en/>