

SGBD(R)

Système de Gestion de Bases de Données (Relationnels)

OLIVARÈS Georges

25/05/2016

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La force de l'engagement[MD]

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Interfaces - BDD



CHAPITRE 4

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Plan – Chapitre 4 – Interfaces/BDD

1. PHP
2. Java
3. ASP

PHP

http://fmaz.developpez.com/tutoriels/php/comprendre-pdo/

```php
<?php
# try/catch pour attraper les erreurs
try {

        # On se connecte
        $db = new PDO('mysql:host=localhost;dbname=cesi;charset=utf8', 'username', 'password');

        # On ajoute des paramètres globaux si besoin
        $db->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);

        # Query - possitibilité d'utiliser des champs 'dynamiques' avec $db->PREPARE();
        $statement = $db->query('SELECT * FROM musiciens');

        echo $statement->rowCount(); # Nombre de résultats

        # On attiche les resultats
        foreach($statement->fetchAll(PDO::FETCH_ASSOC) as $row ) {
                echo 'Musicien ', $row->nom, ' ', $row['prenom'];
        }

        # Query sans retour
        $result = $db->exec('INSERT INTO musiciens(prenom, nom) VAULES("John", \'Doe\')');
        $insertId = $db->lastInsertId();

} catch(PDOException $ex) {
    echo 'Error: ', $ex ->getMessage();
} ?>
```

Java

```
import java.sql.*;

public static void main(String[] args) {
     Connection conn = null; Statement stmt = null;
     try{
        // STEP 1: Register JDBC driver
        Class.forName("com.mysql.jdbc.Driver");
        // STEP 2: Open a connection
        conn = DriverManager.getConnection("jdbc:mysql://localhost/cesi", "username", "password");
        // STEP 3: Execute a query
        stmt = conn.createStatement();
        String sql; sql = "SELECT nm, nom, prenom FROM musiciens";
        ResultSet rs = stmt.executeQuery(sql);
        // STEP 4: Extract data from result set
        while( rs.next() ){
           // Retrieve by column name
           int nm  = rs.getInt("nm");     String nom = rs.getString("nom");    String prenom = rs.getString("prenom");
           //Display values
           System.out.print("ID: " + nm); System.out.print(", nom: " + nom); System.out.print(", prenom: " + prenom);
        }
        //STEP 6: Clean-up environment
        rs.close(); stmt.close(); conn.close();
     } catch(SQLException se){ se.printStackTrace(); /* Handle errors for JDBC */
     } catch(Exception e){ e.printStackTrace(); /* Handle errors for Class.forName */
     } finally{ /* ... */ }
}
```

Java

```
import java.sql.*;

public static void main(String[] args) {
     Connection conn = null; Statement stmt = null;
     try{
        // ...
     } catch(SQLException se){ se.printStackTrace(); /* Handle errors for JDBC */
     } catch(Exception e){ e.printStackTrace(); /* Handle errors for Class.forName */
     } finally {
         try {
             if(stmt!=null)  stmt.close();
         } catch(SQLException se2) { /* nothing we can do */ }
         try {
             if(conn!=null) conn.close();
         } catch(SQLException se){ se.printStackTrace();
     }
   }
}
```



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ASP

```
<%

Dim sConnection, objConn , objRS

' On se connecte au driver
sConnection = "DRIVER={MySQL ODBC 5.1 Driver}; SERVER=ServerIP; DATABASE=cesi;UID=username;PASSWORD=password; OPTION=3"

' On ouvre la connexion
Set objConn = Server.CreateObject("ADODB.Connection")
objConn.Open(sConnection)

' On execute une requête
Set objRS = objConn.Execute("SELECT nom, prenom FROM musiciens")

' On boucle sur le resultat
While Not objRS.EOF
     Response.Write objRS.Fields("nom") & ", " & objRS.Fields("prenom") & "<br />"
     Response.Write & " "
     objRS.MoveNext
Wend

' On ferme proprement la connexion
objRS.Close
Set objRS = Nothing
objConn.Close
Set objConn = Nothing

%>
```



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