Assignment week 3

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20BCE10099

Implementing JDBC using Java

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.Statement;

import java.sql.ResultSet;

import java.sql.SQLException;

public class JDBCDemo {

private static final String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

private static final String DB\_URL = "jdbc:mysql://localhost:3306/mydatabase";

private static final String USERNAME = "username";

private static final String PASSWORD = "password";

public static void main(String[] args) {

Connection conn = null;

Statement stmt = null;

try {

// Register JDBC driver

Class.forName(JDBC\_DRIVER);

// Open a connection

System.out.println("Connecting to database...");

conn = DriverManager.getConnection(DB\_URL, USERNAME, PASSWORD);

// Execute a query

stmt = conn.createStatement();

String sql = "SELECT id, name, age FROM employees";

ResultSet rs = stmt.executeQuery(sql);

// Process the result set

while (rs.next()) {

// Retrieve by column name

int id = rs.getInt("id");

String name = rs.getString("name");

int age = rs.getInt("age");

// Display values

System.out.print("ID: " + id);

System.out.print(", Name: " + name);

System.out.println(", Age: " + age);

}

// Clean up

rs.close();

stmt.close();

conn.close();

} catch (SQLException se) {

// Handle errors for JDBC

se.printStackTrace();

} catch (Exception e) {

// Handle errors for Class.forName

e.printStackTrace();

} finally {

// Finally block to close resources

try {

if (stmt != null) stmt.close();

} catch (SQLException se2) {

} // nothing we can do

try {

if (conn != null) conn.close();

} catch (SQLException se) {

se.printStackTrace();

}

}

System.out.println("Goodbye!");

}

}