JDBC 01 KEY

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

public class JDBC01

{

public static void main(String[] args)

{

String driver = "oracle.jdbc.driver.OracleDriver";

String url = "jdbc:oracle:thin:@localhost:1521/pdborcl";

String username = "hr";

String password = "hr";

Statement dbStatement = null;

ResultSet dbResultSet = null;

Connection conn = null;

try

{

conn =

DriverManager.getConnection(url, username, password);

System.out.println("Connection successful.");

} catch (SQLException ex)

{

System.out.println("Problems with connection" + ex);

}

String query =

"select isbn, title, authFirstName, authLastName from tblBooks";

System.out.println("Query: " + query);

try

{

dbStatement =

conn.createStatement();

System.out.println("Statement created successfully.");

} catch (SQLException ex)

{

System.out.println("Problems creating statement" + ex);

}

try

{

dbResultSet = dbStatement.executeQuery(query);

System.out.println("Query executed correctly.");

} catch (SQLException ex)

{

System.out.println("Problems executing statement" + ex);

}

System.out.println();

displayResults(dbResultSet);

System.out.println();

try

{

dbStatement.close();

System.out.println("Statement closed.");

} catch (SQLException ex)

{

System.out.println("Problem closing statement.");

}

try

{

conn.close();

System.out.println("Connection closed.");

} catch (SQLException ex)

{

System.out.println("Problem closing connection.");

}

} // end main

public static void displayResults(ResultSet dbrs)

{

int count = 0;

try

{

while (dbrs.next())

{

System.out.printf("%-15s %-40s %1s %1s\n",

dbrs.getString("isbn"), dbrs.getString("title"),

dbrs.getString("authFirstName"),

dbrs.getString("authLastName"));

count++;

}

} catch (SQLException ex)

{

System.out.println(

"SQLException occurred while displaying results.\n" +

ex);

}

System.out.println();

System.out.println(count + " records in result set");

}

}

JDBC 02 KEY

import java.sql.\*;

public class JDBC02KEY

{

public static void main(String[] args)

{

Connection conn = null;

String url = "jdbc:oracle:thin:@localhost:1521:orcl";

try

{

conn = DriverManager.getConnection(url, "scott", "tiger");

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

}

catch (SQLException ex)

{

System.out.println("Problems getting a connection");

}

try

{

PreparedStatement updateZipCode =

conn.prepareStatement(

"update tblStudent set zip = ? where city = ?");

System.out.println("PreparedStatement created");

updateZipCode.setString(1,"55555");

updateZipCode.setString(2, "Maryville");

updateZipCode.executeUpdate();

System.out.println("PreparedStatement executed");

}

catch(SQLException ex)

{

System.out.println("Problems with PreparedStatement");

}

try

{

// CallableStatement updateGpaStmt =

// conn.prepareCall("call update\_gpa(944, 1.5)");

// OR

// If you want to use parameters

CallableStatement updateGpaStmt =

conn.prepareCall("call update\_gpa(?,?)");

updateGpaStmt.setInt(1,944);

updateGpaStmt.setDouble(2,1.5);

System.out.println("CallableStatement created");

updateGpaStmt.executeUpdate();

System.out.println("CallableStatement executed");

}

catch(SQLException ex)

{

System.out.println("Problems with CallableStatement");

}

if(conn != null)

{

try

{

conn.close();

System.out.println("Connection closed");

}

catch (SQLException ex)

{

System.out.println("Problems closing connection");

}

}

}

}

create or replace procedure update\_gpa

(studentId IN NUMBER,

newGpa IN NUMBER)

IS

BEGIN

update tblStudent

set gpa = newGpa

where stuId = studentId;

commit;

END;

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