Create a Java program to demonstrate JDBC and Spring Integration

Java Program

import java.sql.\*;

public class StudentDAO {

// Class data members

private String driver;

private String url;

private String userName;

private String password;

// Setter methods for

// Setter Injection

public void setDriver(String driver)

{

this.driver = driver;

}

// Setter

public void setUrl(String url) { this.url = url; }

// Setter

public void setUserName(String userName)

{

this.userName = userName;

}

// Setter

public void setPassword(String password)

{

this.password = password;

}

// Setter

public void selectAllRows()

throws ClassNotFoundException, SQLException

{

System.out.println("Retrieving all student data..");

// Load driver

Class.forName(driver);

// Getting a connection

Connection con = DriverManager.getConnection(

url, userName, password);

// Execute query

Statement stmt = con.createStatement();

ResultSet rs = stmt.executeQuery(

"SELECT \* FROM studentdb.hostelstudentinfo");

while (rs.next()) {

int studentId = rs.getInt(1);

String studentName = rs.getString(2);

double hostelFees = rs.getDouble(3);

String foodType = rs.getString(4);

System.out.println(studentId + " " + studentName

+ " " + hostelFees + " "

+ foodType);

}

// Closing the connection

con.close();

}

}

XML

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://www.springframework.org/schema/beans

https://www.springframework.org/schema/beans/spring-beans.xsd">

<bean id="studentDAO" class="StudentDAO">

<property name="driver" value="com.mysql.cj.jdbc.Driver"/>

<property name="url" value="jdbc:mysql://localhost:3306/studentdb"/>

<property name="userName" value="root"/>

<property name="password" value="your password"/>

</bean>

</beans>

Main java class

import java.sql.SQLException;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class Main {

public static void main(String[] args)

throws SQLException, ClassNotFoundException

{

ApplicationContext context= new ClassPathXmlApplicationContext( "beans.xml");

StudentDAO studentDAO = context.getBean(

"studentDAO", StudentDAO.class);

studentDAO.selectAllRows();

}

}