package org;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Types;

import java.util.ArrayList;

import java.util.List;

import java.util.Map;

import org.springframework.asm.Type;

import org.springframework.dao.DataAccessException;

import org.springframework.dao.EmptyResultDataAccessException;

import org.springframework.jdbc.core.BatchPreparedStatementSetter;

import org.springframework.jdbc.core.JdbcTemplate;

import org.springframework.jdbc.core.PreparedStatementCallback;

import org.springframework.jdbc.core.ResultSetExtractor;

import org.springframework.jdbc.core.RowMapper;

import org.springframework.jdbc.core.SqlOutParameter;

import org.springframework.jdbc.core.SqlParameter;

import org.springframework.jdbc.object.StoredProcedure;

import org.springframework.jdbc.support.rowset.SqlRowSet;

public class EmployeeDAO {

private JdbcTemplate jdbcTemplate;

public void setJdbcTemplate(JdbcTemplate jdbcTemplate) {

this.jdbcTemplate = jdbcTemplate;

}

public void insertDataInEmp(Employee emp)

{

StoredProcCaller spc=new StoredProcCaller(jdbcTemplate,"insertEmpData");

//Sql Parameter mapping

SqlParameter eid=new SqlParameter("id",Types.CHAR);

SqlParameter ename=new SqlParameter("name",Types.CHAR);

SqlParameter eaddress=new SqlParameter("address",Types.CHAR);

SqlParameter [] paramArray={eid,ename,eaddress};

spc.setParameters(paramArray);

spc.compile();

spc.execute(new Object[]{emp.getId(),emp.getName(),emp.getAddress()});

}

public void getData(String id)

{

StoredProcCaller spc=new StoredProcCaller(jdbcTemplate,"getEmpNameAndAddress");

//Sql Parameter mapping

SqlParameter eid=new SqlParameter("id",Types.CHAR);

SqlOutParameter ename=new SqlOutParameter("ename",Types.CHAR);

SqlOutParameter eaddress=new SqlOutParameter("eaddress",Types.CHAR);

SqlParameter [] paramArray={eid,ename,eaddress};

spc.setParameters(paramArray);

spc.compile();

Map result=spc.execute(new Object[]{id});

System.out.println("Map value is:"+result);

}

}

package org;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class SpringInsertStoredProcedureMain {

public static void main(String[] args) {

ApplicationContext ctx=new ClassPathXmlApplicationContext("org/ApplicationContext.xml");

EmployeeDAO edao=(EmployeeDAO)ctx.getBean("edao");

Employee ee=new Employee("SSSS","QQQQ","UUUU");

try

{

edao.insertDataInEmp(ee);

}catch(Exception e)

{

System.out.println("Exception Message:"+e);

}

System.out.println("Data Inserted Successfully");

}

}

package org;

import java.util.Scanner;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class SpringSelectStoredProcedureMain {

public static void main(String[] args) {

ApplicationContext ctx=new ClassPathXmlApplicationContext("org/ApplicationContext.xml");

EmployeeDAO edao=(EmployeeDAO)ctx.getBean("edao");

Scanner sc=new Scanner(System.in);

System.out.println("Enter Id:");

String id=sc.next();

try

{

edao.getData(id);

}catch(Exception e)

{

System.out.println("Exception Message:"+e);

}

System.out.println("Data Retrieved Successfully");

}

}

**public** **class** StoredProcCaller **extends** StoredProcedure{

StoredProcCaller(JdbcTemplate jdbcTemplate,String name)

{

**super**(jdbcTemplate,name);

setFunction(**false**);

}

}

getEmp.sql:

create or replace procedure getEmpNameAndAddress(eid in employee.id%type,

ename out employee.name%type,

eaddress out employee.address%type)

is

begin

select name,address into ename,eaddress from employee where id=eid;

end;

/

create or replace procedure insertEmpHistory(eid in employee.id%type)

is

ename varchar2(30);

eaddr varchar2(30);

eamount number;

begin

select name,address into ename,eaddr from employee where id=eid;

select amount into eamount from salary where id=eid;

insert into emphistory values(eid,ename,eaddr,eamount);

commit;

end;

/