

Program No:	23
Roll No :	1525
Title of Program :	Spring jdbc:employee application
Objective :	1.program to insert from the given table 2.To demonstrate RowMapper interface to fetch the records from the database

Source code:

Employee.java

```
package edu.met.p1;
```

```
public class Employee {  
    int eid;  
    String ename;  
    int salary;
```

```
    public Employee(int eid, String ename, int salary) {  
        super();  
        this.eid = eid;  
        this.ename = ename;  
        this.salary = salary;  
    }
```

```
    public Employee() {  
        // TODO Auto-generated constructor stub  
    }
```

```
    public int getId() {  
        return eid;  
    }
```

```
    public void setId(int eid) {  
        this.eid = eid;
```

```
}

public String getEname() {
return ename;
}

public void setEname(String ename) {
this.ename = ename;
}

public int getSalary() {
return salary;
}

public void setSalary(int salary) {
this.salary = salary;
}

@Override
public String toString() {
return "Employee [eid=" + eid + ", ename=" + ename + ",
salary=" + salary + "]";
}

}
appctx.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"
```

```
xmlns:p="http://www.springframework.org/schema/p"

xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-
3.0.xsd">
    <bean id="empbean" class="edu.met.p1.Employee">
        <constructor-arg value="102"></constructor-arg>
        <constructor-arg value="ELLIOT"></constructor-arg>
        <constructor-arg value="25000"></constructor-arg>
    </bean>

    <bean id="ds"
class="org.springframework.jdbc.datasource.DriverManagerDataSou
rce">
        <property name="driverClassName"
value="org.postgresql.Driver"></property>
        <property name="url"
value="jdbc:postgresql://localhost:5432/postgres"></property>
        <property name="username" value="postgres"></property>
        <property name="password" value="password"></property>
    </bean>
    <bean id="jdbcT"
class="org.springframework.jdbc.core.JdbcTemplate">
        <property name="dataSource" ref="ds"></property>
    </bean>
    <bean id="empD" class="edu.met.p1.EmployeeDao">
        <constructor-arg ref="jdbcT"></constructor-arg>
    </bean>

</beans>
```

EmployeeDao.java

```
package edu.met.p1;
import java.sql.*;
import java.util.List;

import org.springframework.jdbc.core.*;
public class EmployeeDao {

    JdbcTemplate jdbcT;

    public EmployeeDao(JdbcTemplate jdbcT) {
        super();
        this.jdbcT = jdbcT;
    }

    public int saveEmp(Employee e1)
    {
        String ins="Insert into employee values("+e1.getId()+
        +", '"+e1.getName()+"', "+e1.getSalary()+")";
        return jdbcT.update(ins);
    }

    public List<Employee> getAll()
    {
        String selQ="Select * from employee";
        return jdbcT.query(selQ, new EmployeeRowMapper());
    }
}
```

EmpMain.java

```
package edu.met.p1;
import java.util.List;

import org.springframework.context.ApplicationContext;
import
org.springframework.context.support.ClassPathXmlApplicationCont
ext;
public class EmpMain {
static ApplicationContext ctx;
public static void main(String[] args)
{

// TODO Auto-generated method stub
ctx=new ClassPathXmlApplicationContext("AppCtx.xml");
Employee e1=(Employee)ctx.getBean("empbean");
EmployeeDao ed=(EmployeeDao)ctx.getBean("empD");
//System.out.println(ed.saveEmp(e1)+" Inserted");

List<Employee> elist=ed.getAll();
System.out.println("Eid\tEname\tSalary");
for(Employee e: elist)
{
    System.out.println(e.getId()+"\t"+e.getName()
+"\t"+e.getSalary());
}
}
}
```

```
EmployeeRowMapper.java  
package edu.met.p1;
```

```
import java.sql.ResultSet;  
import java.sql.SQLException;
```

```
import org.springframework.jdbc.core.RowMapper;
```

```
public class EmployeeRowMapper implements RowMapper<Employee> {
```

```
    @Override  
    public Employee mapRow(ResultSet arg0, int arg1) throws  
    SQLException {
```

```
        // TODO Auto-generated method stub
```

```
        Employee temp=new Employee();  
        temp.setEid(arg0.getInt(1));  
        temp.setEname(arg0.getString(2));  
        temp.setSalary(arg0.getInt(3));  
        return temp;
```

```
    }
```

```
}
```

OUTPUT:

```

Markers Properties Servers Data Source Explorer Snippets Console X
<terminated> EmpMain [Java Application] D:\Spring\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.wir
1 Inserted
  
```

	Data Output	Explain	Messages	Notifications
	eid integer	ename character varying (50)	salary integer	
1	101	sharukh	10000	
2	102	ELLIOT	25000	

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