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# Spring Data JPA One To Many Foreign Key Example

June 20, 2017 by

[javainterviewpoint](#) — Leave a Comment

In this [Spring Data JPA One To Many](#) article, we will learn how to achieve [One To Many Mapping](#) using Spring Data JPA. In this approach, we will re-use the same two tables which we used in our previous [Spring Data JPA One To One Example](#).

## Creating table

query in the query  
editor to get the table  
created.

```
CREATE TABLE
  "EMPLOYEE"
  (
    "EMP_ID"
    NUMBER(10,0) NOT
    NULL ENABLE,
    "NAME"
    VARCHAR2(255 CHAR),
    PRIMARY KEY
    ("EMP_ID")
  );
```

```
CREATE TABLE
  "EMPLOYEE_ADDRESS"
  (
    "ADDR_ID"
    NUMBER(10,0) NOT
    NULL ENABLE,
    "EMP_ID"
    NUMBER(10,0) NOT
    NULL ENABLE,
    "STREET"
    VARCHAR2(255 CHAR),
    "CITY"
    VARCHAR2(255 CHAR),
    "STATE"
    VARCHAR2(255 CHAR),
    "COUNTRY"
    VARCHAR2(255 CHAR),
```

```
( "EMP_ID")
    REFERENCES EMPLOYEE
( "EMP_ID")
);
```

## Folder Structure:



1. Create a

simple *Maven Project* “**SpringDataJPA**” and create a package for our source files “**com.javainterviewpoint**” under **src/main/java**

2. Now add the

following dependency in the **POM.xml**

```
<project
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

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```
che.org/maven-
v4_0_0.xsd">
<groupId>com.ja
vainterviewpoint
</groupId>
<artifactId>Spr
ingJPA</artifact
Id>
<packaging>jar<
/packaging>
<version>0.0.1-
SNAPSHOT</versio
n>
<name>SpringJPA
Maven
Webapp</name>
<url>http://mav
en.apache.org</u
rl>
<properties>

<hibernate.versi
on>4.2.0.Final</
hibernate.versio
n>

<spring.version>
4.3.5
RELEASE</spring.
version>
</properties>

<dependencies>
<!-- DB
```

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```
<groupId>org.hib  
ernate.common</g  
roupId>  
  
<artifactId>hibe  
rnate-commons-  
annotations</art  
ifactId>  
  
<version>4.0.5.F  
inal</version>  
  
</dependency>  
<dependency>  
  
<groupId>org.hib  
ernate</groupId>  
  
<artifactId>hibe  
rnate-  
entitymanager</a  
rtifactId>  
  
<version>4.1.9.F  
inal</version>  
  
</dependency>  
<dependency>  
  
<groupId>commons  
-dbcp</groupId>  
  
<artifactId>comm
```

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```
rsion>

</dependency>
<dependency>

<groupId>javassi
st</groupId>

<artifactId>java
ssist</artifactI
d>

<version>3.12.1.
GA</version>

</dependency>
<dependency>

<groupId>org.hib
ernate.javax.per
sistence</groupI
d>

<artifactId>hibe
rnate-jpa-2.0-
api</artifactId>

<version>1.0.1.F
inal</version>

</dependency>
<dependency>

<groupId>org.spr
```

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```
jpa</artifactId>

<version>1.11.3.
RELEASE</version>
>

</dependency>
<dependency>

<groupId>com.ora
cle</groupId>

<artifactId>ojdbc
c14</artifactId>

<version>11.2.0<
/version>

</dependency>
<dependency>

<groupId>org.hib
ernate</groupId>

<artifactId>hibe
rnate-
core</artifactId
>

<version>4.1.9.F
inal</version>

</dependency>
```

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```
ingframework</gr
oupId>

<artifactId>spri
ng-
tx</artifactId>

<version>4.3.5.R
ELEASE</version>

</dependency>
<dependency>

<groupId>org.spr
ingframework</gr
oupId>

<artifactId>spri
ng-
context</artifac
tId>

<version>4.3.5.R
ELEASE</version>

</dependency>
<dependency>

<groupId>org.spr
ingframework</gr
oupId>

<artifactId>spri
ng-
```

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```
</dependency>
<dependency>

<groupId>org.springframework</groupId>
<artifactId>spring-core</artifactId>
</dependency>

<version>4.3.5.R
ELEASE</version>

</dependency>
<dependency>

<groupId>org.springframework</groupId>
<artifactId>spring-tx</artifactId>
</dependency>

<version>4.3.5.R
ELEASE</version>

</dependency>
<dependency>

<groupId>org.spring
```

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```
jdbc</artifactId>
>

<version>4.3.5.R
ELEASE</version>

</dependency>
<dependency>

<groupId>org.spr
ingframework</gr
oupId>

<artifactId>spri
ng-
orm</artifactId>

<version>3.2.5.R
ELEASE</version>

</dependency>

<!-- CGLIB
is required to
process
@Configuration
classes -->
<dependency>

<groupId>cglib</
groupId>

<artifactId>cgli
b</artifactId>
```

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```
<!-- Servlet  
API and JSTL -->  
<dependency>  
  
<groupId>javax.s  
ervlet</groupId>  
  
<artifactId>java  
x.servlet-  
api</artifactId>  
  
<version>3.0.1</  
version>  
  
<scope>provided<  
/scope>  
  
</dependency>  
<dependency>  
  
<groupId>jstl</g  
roupId>  
  
<artifactId>jstl  
</artifactId>  
  
<version>1.2</ve  
rsion>  
  
</dependency>  
  
<!-- Test -->
```

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```
<artifactId>juni  
t</artifactId>  
  
<version>4.7</ve  
rsion>  
  
<scope>test</sco  
pe>  
  
</dependency>  
<dependency>  
  
<groupId>org.spr  
ingframework</gr  
oupId>  
  
<artifactId>spri  
ng-  
test</artifactId  
>  
  
<version>4.3.5.R  
ELEASE</version>  
  
<scope>test</sco  
pe>  
  
</dependency>  
<dependency>  
  
<groupId>org.spr  
ingframework</gr  
oupId>
```

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```
1</version>

<scope>test</sco
pe>

</dependency>

</dependencies>
<build>

<finalName>Sprin
gJPA</finalName>
</build>
</project>
```

3. Create the Java  
classes

*Employee.java,*  
*Employee\_Address.j
ava,*  
*EmployeeRepository
.java,*  
*SaveLogic.java* and *R
etrieveLogic.java* un
der  
*com.javainterviewp
oint* folder.

4. Place the  
*SpringConfig.xml* un
der the

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- [Spring CRUD  
Example with  
JdbcTemplate +  
Maven + Oracle](#)
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@Resource,  
@Qualifier,  
@Inject  
Annotation](#)
- [Spring Bean Life  
Cycle – Bean  
Initialization and  
Destruction](#)

- [How to create Spring Beans Using Spring FactoryBean](#)
- [How to specify Spring Bean Reference and Spring Inner Bean](#)
- [Spring Dependency Checking and Spring @Required Annotation](#)

## Spring Data JPA One To Many Foreign Key Example

### Employee.java

Create a new Java file

**Employee.java** under the package

**com.javainterviewpoint** and add the following code

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```
java.util.Set;

import javax.persistence.C
ascadeType;
import javax.persistence.C
olumn;
import javax.persistence.E
ntity;
import javax.persistence.F
etchType;
import javax.persistence.G
eneratedValue;
import javax.persistence.I
d;
import javax.persistence.O
neToMany;
import javax.persistence.T
able;

@Entity
@Table(name="EMPLOY
EE")
public class
Employee
{
```

```
private int  
empId;  
  
@Column(name="NAME"  
)  
private String  
empName;  
  
@OneToMany(fetch =  
FetchType.EAGER, map  
pedBy="employee", ca  
scade =  
CascadeType.ALL)  
private  
Set<Employee_Adres  
s> employeeAddress;  
  
public  
Employee()  
{  
    super();  
}  
  
public  
Employee(int empId,  
String empName,  
Set<Employee_Adres  
s> employeeAddress)  
{  
    super();  
    this.empId  
= empId;
```

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```
s =  
employeeAddress;  
}  
  
public int  
getEmpId()  
{  
    return  
empId;  
}  
  
public void  
setEmpId(int empId)  
{  
    this.empId  
= empId;  
}  
  
public String  
getEmpName()  
{  
    return  
empName;  
}  
  
public void  
setEmpName(String  
empName)  
{  
  
    this.empName =  
empName;  
}
```

```
{  
    return  
employeeAddress;  
}  
  
public void  
setEmployeeAddress(  
Set<Employee_Address  
s> employeeAddress)  
{  
  
this.employeeAddress  
s =  
employeeAddress;  
}  
  
@Override  
public String  
toString()  
{  
    return  
"Employee [empId="  
+ empId + ",  
empName=" + empName  
+ "]";  
}  
}
```

Our **Employee** class is a  
simple **POJO** class  
consisting of the **getters**  
and **setters** for the

used the below **JPA**

### **Annotations.**

#### **1. @Entity – This**

annotation will mark  
our **Employee** class  
as an **Entity Bean**.

#### **2. @Table – @Table**

annotation will map  
our class to the  
corresponding  
database table. You  
can also specify  
other attributes such  
as **indexes**, **catalog**,  
**schema**,  
**uniqueConstraints**.

#### The **@Table**

annotation is an  
optional annotation  
if this annotation is  
not provided then  
the class name will  
be used as the table  
name.

#### **3. @Id – The @Id**

annotation marks the  
particular field as the

used to specify how  
the primary key  
should be generated.

Here **SEQUENCE**

Strategy will be used  
as this the default  
strategy for Oracle

#### 5. @OneToMany – We

have used the  
**mappedBy** attribute  
– This denotes the  
property which will  
be used for mapping  
purpose, here we  
have an attribute  
“**employee**” so in our  
**Employee\_Address** c  
lass. This is a  
mandatory  
annotation.

#### 6. @Column – This

annotation maps the  
corresponding fields  
to their respective  
columns in the  
database table.

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under the package  
**com.javainterviewpoint** a  
nd add the following code

```
package  
com.javainterviewpo  
int;  
  
import  
javax.persistence.C  
ascadeType;  
import  
javax.persistence.C  
olumn;  
import  
javax.persistence.E  
ntity;  
import  
javax.persistence.G  
eneratedValue;  
import  
javax.persistence.I  
d;  
import  
javax.persistence.J  
oinColumn;  
import  
javax.persistence.M  
anyToOne;  
import  
javax.persistence.T  
able;
```

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```
public class
Employee_Address
{
    @Id
    @Column(name =
"ADDR_ID")
    @GeneratedValue
    private int
addrId;

    @Column(name="STREE
T")
    private String
street;

    @Column(name="CITY"
)
    private String
city;

    @Column(name="STATE
")
    private String
state;

    @Column(name="COUNT
RY")
    private String
country;

    @ManyToOne(cascade=
CascadeType.ALL)
```

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```
public  
Employee_Address()  
{  
    super();  
}  
  
public  
Employee_Address(in  
t addrId, String  
street, String  
city, String state,  
String country,  
Employee employee)  
{  
    super();  
    this.addrId  
= addrId;  
    this.street  
= street;  
    this.city =  
city;  
    this.state  
= state;  
  
    this.country =  
country;  
  
    this.employee =  
employee;  
}  
  
public int  
getAddrId()
```

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```
public void  
setAddrId(int  
addrId)  
{  
    this.addrId  
= addrId;  
}  
  
public String  
getStreet()  
{  
    return  
street;  
}  
  
public void  
setStreet(String  
street)  
{  
    this.street  
= street;  
}  
  
public String  
getCity()  
{  
    return  
city;  
}  
  
public void  
setCity(String  
city)  
{
```

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```
getState()
{
    return
state;
}

public void
setState(String
state)
{
    this.state
= state;
}

public String
getCountry()
{
    return
country;
}

public void
setCountry(String
country)
{
    this.country =
country;
}

public Employee
getEmployee()
{
    return
```

```
e employee)
{
    this.employee =
employee;
}
}
```

@ManyToOne annotation  
defines the relationship  
many to one (One  
Employee can have many  
Employee\_Address)

@JoinColumn annotation  
indicates that this entity  
will act as the owner of the  
relationship (This table has  
a column with a foreign  
key to the referenced  
table)

## SpringConfig.x ml

Place the  
SpringConfig.xml file also  
under  
the *src/main/resources* fol  
der

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```
xmlns="http://w
ww.springframew
ork.org/schema/
beans"

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

    xmlns:jdbc="htt
p://www.springf
ramework.org/sc
hema/jdbc"

    xmlns:c
ontext="http://
www.springframe
work.org/schema
/context"

    xmlns:tx="http:
//www.springfra
mework.org/sche
ma/tx"

    xmlns:j
pa="http://www.
springframework
.org/schema/dat
a/jpa"

        xsi:sch
emaLocation="ht
tp://www.spring
framework.org/s
chema/jdbc

        http://www.spri
```

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<http://www.springframework.org/schema/beans/spring-beans.xsd>

<http://www.springframework.org/schema/tx/>  
<http://www.springframework.org/schema/tx/spring-tx-3.2.xsd>

<http://www.springframework.org/schema/context/>  
<http://www.springframework.org/schema/context/spring-context.xsd>

<http://www.springframework.org/schema/mvc/>  
<http://www.springframework.org/schema/mvc/spring-mvc.xsd>

<http://www.springframework.org>

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```
/schema/data/jp  
a/spring-jpa-  
1.2.xsd">
```

```
<context:compo  
nent-scan base-  
package="com.ja  
vainterviewpoin  
t">  
</context:compo  
nent-scan>  
<jpa:repositor  
ies base-  
package="com.ja  
vainterviewpoin  
t"  
entity-  
manager-  
factory-  
ref="entityMana  
gerFactoryBean"  
>  
</jpa:repositor  
ies>
```

```
<bean  
id="saveLogic"  
class="com.java  
interviewpoint.  
SaveLogic" />  
<bean  
id="retrieveLog  
ic"
```

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```
<!--  
EntityManagerFa  
ctory -->  
<bean  
id="entityManag  
erFactoryBean"  
class="org.spr  
ingframework.or  
m.jpa.LocalCont  
ainerEntityMana  
gerFactoryBean"  
>  
<property  
name="dataSourc  
e"  
ref="dataSource  
" />  
<!-- Now  
/META-  
INF/persistence  
.xml is no  
Longer needed -  
->  
<property  
name="packagesT  
oScan"  
value="com.java  
interviewpoint"  
/>  
<property  
name="jpaVendor  
Adapter">  
<bean  
class="org.spr
```

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```
<property  
    name="jpaProper  
ties">  
    <props>  
        <prop  
            key="hibernate.  
hbm2ddl.auto">u  
pdate</prop>  
        <prop  
            key="hibernate.  
dialect">org.hi  
bernate.dialect  
.Oracle10gDiale  
ct</prop>  
    </props>  
    </property>  
</bean>  
  
<bean  
    id="dataSource"  
    class="org.spr  
ingframework.jd  
bc.datasource.D  
riverManagerDat  
aSource">  
    <property  
        name="driverCla  
ssName"  
        value="oracle.j  
dbc.driver.Orac  
leDriver" />  
    <property  
        name="url"  
        value="jdbc:ora
```

```
<property  
    name="password"  
    value="root" />  
</bean>  
  
<bean  
    id="transaction  
Manager"  
    class="org.spri  
ngframework.orm  
.jpa.JpaTransac  
tionManager">  
    <property  
        name="entityMan  
agerFactory"  
        ref="entityMana  
gerFactoryBean"  
    />  
    </bean>  
</beans>
```

We have defined the below beans in our **SpringConfig** file.

- **dataSource** : This bean holds all the database related configurations such as driverClassName, url, username, password.

will be passing the **datasource** reference and set values to the properties **jpaVendorAdapter**, **jpaProperties**

- **transactionManager**: We are using the **JpaTransactionManager** for managing the transactions for our application, we will be passing the **entityManagerFactoryBean** reference to it.

## **EmployeeRepository.java**

Our **EmployeeRepository** interface extends the **JpaRepository** interface. The **JpaRepository** interface contains the basic methods for performing **CRUD** Operations over an entity.

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```
com.javainterviewpo
int;

import
org.springframework
.data.jpa.repository
.JpaRepository;
import
org.springframework
.stereotype.Component
nt;

public interface
EmployeeRepository
extends
JpaRepository<Emplo
yee, Integer>
{

}
```

## SaveLogic.java

```
package
com.javainterviewpo
int;

import
java.util.HashSet;
import
java.util.Set;

import
org.springframework
```

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```
assPathXmlApplicati
onContext;
import
org.springframework
.stereotype.Compone
nt;

@Component
public class
SaveLogic
{
    private static
SaveLogic
saveLogic;

@Autowired
private
EmployeeRepository
employeeRepository;

public static
void main( String[]
args )
{
    //Reading
the Configuration
file

ClassPathXmlApplica
tionContext context
= new
ClassPathXmlApplica
tionContext("spring
Config.xml");
```

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```
getBean("saveLogic"
);
```

```
saveLogic.saveEmplo
yee();
```

```
context.close();
}
```

```
public void
saveEmployee()
{
    Employee
employee = new
Employee();
```

```
employee.setEmpName
("JIP");
```

```
Employee_Address
employeeAddress1 =
new
Employee_Address();
```

```
employeeAddress1.se
tStreet("Street
1");
```

```
employeeAddress1.se
tCity("City 1");
```

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```
tState("State 1");

employeeAddress1.se
tEmployee(employee)
;

Employee_Address
employeeAddress2 =
new
Employee_Address();

employeeAddress2.se
tStreet("Street
2");

employeeAddress2.se
tCity("City 2");

employeeAddress2.se
tCountry("Country
2");

employeeAddress2.se
tState("State 2");

employeeAddress2.se
tEmployee(employee)
;

Set<Employee_Adres
s>
```

```
1);

employeeAddressSet.
add(employeeAddress
2);

employee.setEmploye
eAddress(employeeAd
dressSet);

employeeRepository.
save(employee);

System.out.println(
"Employee and
Employee Address
saved
successfully!!");

}

}
```

- In our **SaveLogic** class, we have read the Configuration file(**SpringConfig.xml**) and get all the bean definition through **ClassPathXmlApplicationConte** xt

```
("springConfig.  
xml");
```

- Get the **SaveLogic** Class instance by calling the **getBean()** method over the context created.

```
saveLogic =  
(SaveLogic)cont  
ext.getBean("sa  
veLogic");
```

- Call the **saveEmployee()** method

```
saveLogic.saveE  
mployee();
```

- Set the values for the Properties of **Employee** and **Employee\_Address** class, and call the **save()** method over the

```
method is already  
implemented by  
JpaRepository ]
```

### Console:

```
INFO: HHH000261:  
Table found:  
EMPLOYEE  
Jun 16, 2017  
4:28:34 PM  
org.hibernate.tool.  
hbm2ddl.TableMetadata  
ta <init>  
INFO: HHH000037:  
Columns: [name,  
emp_id]  
Jun 16, 2017  
4:28:34 PM  
org.hibernate.tool.  
hbm2ddl.TableMetadata  
ta <init>  
INFO: HHH000108:  
Foreign keys: []  
Jun 16, 2017  
4:28:34 PM  
org.hibernate.tool.  
hbm2ddl.TableMetadata  
ta <init>  
INFO: HHH000126:  
Indexes:  
[sys_c0015848]  
Jun 16, 2017
```

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**Table** found:

EMPLOYEE\_ADDRESS

Jun 16, 2017

4:28:38 PM

org.hibernate.tool.

hbm2ddl.TableMetadata

ta <init>

INFO: HHH000037:

**Columns:** [street,

emp\_id, state,

addr\_id, country,

city]

Jun 16, 2017

4:28:38 PM

org.hibernate.tool.

hbm2ddl.TableMetadata

ta <init>

INFO: HHH000108:

**Foreign keys:**

[fk\_emp]

Jun 16, 2017

4:28:38 PM

org.hibernate.tool.

hbm2ddl.TableMetadata

ta <init>

INFO: HHH000126:

**Indexes:**

[sys\_c0015851]

Jun 16, 2017

4:28:38 PM

org.hibernate.tool.

hbm2ddl.SchemaUpdat

e execute

INFO: HHH000232:

successfully!!

## RetrieveLogic.java

```
package com.javainterviewpo
int;

import java.util.List;
import java.util.Set;

import org.springframework
.beans.factory.anno
tation.Autowired;
import org.springframework
.context.support.Cl
assPathXmlApplicati
onContext;
import org.springframework
.stereotype.Compone
nt;

@Component
public class
RetrieveLogic
{
    private static
```

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```
EmployeeRepository  
employeeRepository;  
  
public static  
void main(String[]  
args)  
{  
    // Reading  
    the Configuration  
    file  
  
    ClassPathXmlApplica  
    tionContext context  
    = new  
    ClassPathXmlApplica  
    tionContext("spring  
Config.xml");  
  
    // Get the  
    RetrieveLogic bean  
  
    retrieveLogic =  
    (RetrieveLogic)  
    context.getBean("re  
trieveLogic");  
  
    retrieveLogic.retri  
eveEmployee();  
  
    context.close();  
}  
public void
```

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```
List<Employee>
employeeList =
employeeRepository.
findAll();

//  

Displaying the
Employee details
for
(Employee employee
: employeeList)
{



System.out.println(
"*** Employee
Details ***");



System.out.println(
"Employee Id : "
+
employee.getEmpId()
);

System.out.println(
"Employee Name : "
+
employee.getEmpName
());


System.out.println(
"*** Employee
```

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```
employee.getEmployee  
eAddress());  
        for  
(Employee_Address  
employeeAddress :  
empAddressSet)  
{  
  
    System.out.println(  
"Street : " +  
employeeAddress.get  
Street());  
  
    System.out.println(  
"City : " +  
employeeAddress.get  
City());  
  
    System.out.println(  
"State : " +  
employeeAddress.get  
State());  
  
    System.out.println(  
"Country : " +  
employeeAddress.get  
Country());  
}  
}  
}
```

) and get all the bean  
definition  
through ClassPathX  
mlApplicationConte  
xt

```
ClassPathXmlApp  
licationContext  
context = new  
ClassPathXmlApp  
licationContext  
("springConfig.  
xml");
```

- Get the  
**SaveLogic** Class  
instance by calling  
the **getBean()**  
method over the  
context created.

```
retrieveLogic=  
(retrieveLogic)  
context.getBean  
("saveLogic");
```

- Call the  
**retrieveEmployee()**  
method

So the `Employee` class  
method over  
the `employeeReposi`  
`tory`  
`instance [findAll()`  
method is already  
implemented by  
`JpaRepository ]`

### Output:

```
*** Employee
Details ***
Employee Id : 84
Employee Name : JIP
*** Employee
Address Details ***
Street : Street 2
City : City 2
State : State 2
Country : Country 2
Street : Street 1
City : City 1
State : State 1
Country : Country 1
```

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## **Java Keywords**

**Java this keyword**

**Java super keyword**

**Final Keyword in Java**

**static Keyword in Java**

**Static Import**

**Transient Keyword**

## **Miscellaneous**

**newInstance() method**

**How does Hashmap  
works internally in Java**

**Java Ternary operator**

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?

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