

One to One mapping-

One object is associated with one object only.

The primary key of one table that becomes the foreign key of another table called as one to one mapping.

Customer Table	Transection Table
Id(PK)	Transection id(pk)
Name	Date
Email	Total
address	
Transection id(fk)	

Customer.java

```
package com.test;
```

```
import javax.persistence.CascadeType;
```

```
import javax.persistence.Column;
```

```
import javax.persistence.Entity;
```

```
import javax.persistence.GeneratedValue;
```

```
import javax.persistence.GenerationType;
```

```
import javax.persistence.Id;
```

```
import javax.persistence.OneToOne;
```

```
import javax.persistence.Table;
```

```
@Entity
```

```
@Table(name = "customer")
```

```
public class Customer {
```

@Id

@GeneratedValue(strategy=GenerationType.IDENTITY)

private int id;

@Column(name="firstName")

private String firstName;

@Column(name="mobileNumber")

private String mobileNumber;

@OneToOne(targetEntity=Transection.class,cascade=CascadeType.ALL)

private Transection transection;

public int getId() {

 return id;

}

public void setId(int id) {

 this.id = id;

}

public String getFirstName() {

 return firstName;

}

public void setFirstName(String firstName) {

 this.firstName = firstName;

```
}
```

```
public String getMobileNumber() {
```

```
    return mobileNumber;
```

```
}
```

```
public void setMobileNumber(String mobileNumber) {
```

```
    this.mobileNumber = mobileNumber;
```

```
}
```

```
public Transection getTransection() {
```

```
    return transection;
```

```
}
```

```
public void setTransection(Transection transection) {
```

```
    this.transection = transection;
```

```
}
```

```
}
```

Transection.java

```
package com.test;
```

```
import java.util.Date;
```

```
import javax.persistence.Column;
```

```
import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.OneToOne;

import javax.persistence.Table;
```

```
@Entity
```

```
@Table(name = "Transection")
```

```
public class Transection {
```

```
    @Id
```

```
    @GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
    private int id;
```

```
    @Column(name = "date")
```

```
    private Date date;
```

```
    @Column(name = "total")
```

```
    private int total;
```

```
    public int getId() {
```

```
        return id;
```

```
    }
```

```
    public void setId(int id) {  
        this.id = id;  
    }  
  
    public Date getDate() {  
        return date;  
    }  
  
    public void setDate(Date date) {  
        this.date = date;  
    }  
  
    public int getTotal() {  
        return total;  
    }  
  
    public void setTotal(int total) {  
        this.total = total;  
    }  
}
```

MainTest.Java

```
package com.test;
```

```
import java.util.Date;
```

```
import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import org.hibernate.cfg.Configuration;


public class MainTest {


    public static void main(String[] args) {


        Configuration configuration = new Configuration();
        configuration.configure("hibernate.cfg.xml");


        SessionFactory sessionFactory = configuration.buildSessionFactory();
        Session session=sessionFactory.openSession();


        Transaction t= session.beginTransaction();


        Customer customer=new Customer();
        customer.setFirstName("sohan");
        customer.setMobileNumber("7575858595");


        Transection transection= new Transection();
        transection.setDate(new Date());
        transection.setTotal(5000);
```

```

        customer.setTransection(transection);

        session.save(customer);

        t.commit();

        session.close();

        sessionFactory.close();

    }
}

```

Hibernate.cfg.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration SYSTEM
    "classpath://org/hibernate/hibernate-
configuration-3.0.dtd">
<hibernate-configuration>
    <session-factory>

        <property
name="hibernate.connection.driver_class">com.mysql.jd
bc.Driver</property>
        <property
name="hibernate.connection.url">jdbc:mysql://localhos
t:3306/sys</property>
        <property
name="hibernate.connection.username">root</property>
        <property
name="hibernate.connection.password">root</property>

        <property
name="hibernate.dialect">org.hibernate.dialect.MySQLD
ialect</property>
    </session-factory>
</hibernate-configuration>

```

```

        <property
name="hbm2ddl.auto">create</property>
        <property name="show_sql">true</property>

        <mapping class="com.test.Customer"></mapping>
        <mapping
class="com.test.Transaction"></mapping>

    </session-factory>
</hibernate-configuration>

```

Pom.xml

```

<project xmlns="http://maven.apache.org/POM/4.0.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4
.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>map</groupId>
    <artifactId>OneToOneMapping</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <dependencies>
        <dependency>
            <groupId>org.hibernate</groupId>
            <artifactId>hibernate-core</artifactId>
            <version>4.3.5.Final</version>
        </dependency>

        <dependency>
            <groupId>mysql</groupId>
            <artifactId>mysql-connector-
java</artifactId>
            <version>8.0.21</version>
        </dependency>
    </dependencies>

```



```
    </dependencies>  
</project>
```