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Program name :- Hibernate One To One Mapping

1.Comapany.java file code :-

```java
package com.sp;

import javax.persistence.Entity;

import javax.persistence.Id;


@Entity
public class Comapany {

        @Id

        private int cID;

        private String name;

        private String address;

        private int productID;

        public int getcID() {

                return cID;

        }

        public void setcID(int cID) {

                this.cID = cID;

        }

        public String getName() {

                return name;

        }

        public void setName(String name) {
```

```java
            this.name = name;

        }

        public String getAddress() {

                return address;

        }

        public void setAddress(String address) {

                this.address = address;

        }

        public int getProductID() {

                return productID;

        }

        public void setProductID(int productID) {

                this.productID = productID;

        }

}
```

2.Product.java file code :-

```java
package com.sp;

import javax.persistence.Entity;

import javax.persistence.Id;

import javax.persistence.Table;

import javax.persistence.*;


@Entity
```

```java
public class Product {

    @Id
    private int productID;

    public int getProductID() {

        return productID;

    }

    public void setProductID(int productID) {

        this.productID = productID;

    }

    public String getPname() {

        return pname;

    }

    public void setPname(String pname) {

        this.pname = pname;

    }

    public String getType() {

        return type;

    }

    public void setType(String type) {

        this.type = type;

    }

    public int getPrice() {

        return price;

    }

    public void setPrice(int price) {
```

```java
			this.price = price;

		}

		private String pname;

		private String type;

		private int price;

}


3.Client.java file code :-

package com.sp;


import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import org.hibernate.cfg.Configuration;



public class Client {


	public static void main(String[] args) {


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

			SessionFactory factory = config.buildSessionFactory();

			Session session = factory.openSession();

			Transaction transaction = session.beginTransaction();

			Comapany cp=new Comapany();
```

```java
            cp.setcID(101);

            cp.setName("Tata");

            cp.setAddress("Pune");

            cp.setProductID(901);

            session.persist(cp);

            transaction.commit();

            session.close();

            System.out.println("Success");

        }

}
```

4.hibernate-configuration.xml file code :-

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC
        "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
        "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
    <session-factory>

        <property name = "hibernate.dialect">
            org.hibernate.dialect.MySQLDialect
        </property>
        <property name = "hbm2ddl.auto">
        create
        </property>

        <property name = "hibernate.connection.driver_class">
            com.mysql.jdbc.Driver
        </property>

        <!-- Assume test is the database name -->

        <property name = "hibernate.connection.url">
            jdbc:mysql://localhost:3306/hbm
        </property>

        <property name = "hibernate.connection.username">
            root
        </property>

        <property name = "hibernate.connection.password">
```

```xml
        </property>

        <!-- List of XML mapping files -->
        <mapping class = "com.app.Company"/>
        <!-- <mapping class = "com.app.Product"/> -->

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

5.pom.xml file code :-

```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
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.sp</groupId>
  <artifactId>HibeOneToOne</artifactId>
  <version>0.0.1-SNAPSHOT</version>
    <dependencies>
  <!-- https://mvnrepository.com/artifact/org.hibernate.orm/hibernate-core -->
<dependency>
    <groupId>org.hibernate.orm</groupId>
    <artifactId>hibernate-core</artifactId>
    <version>6.0.0.Alpha7</version>
</dependency>

  <!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
<dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
    <version>8.0.28</version>
</dependency>
  </dependencies>
</project>
```

OUTPUT :-

Success