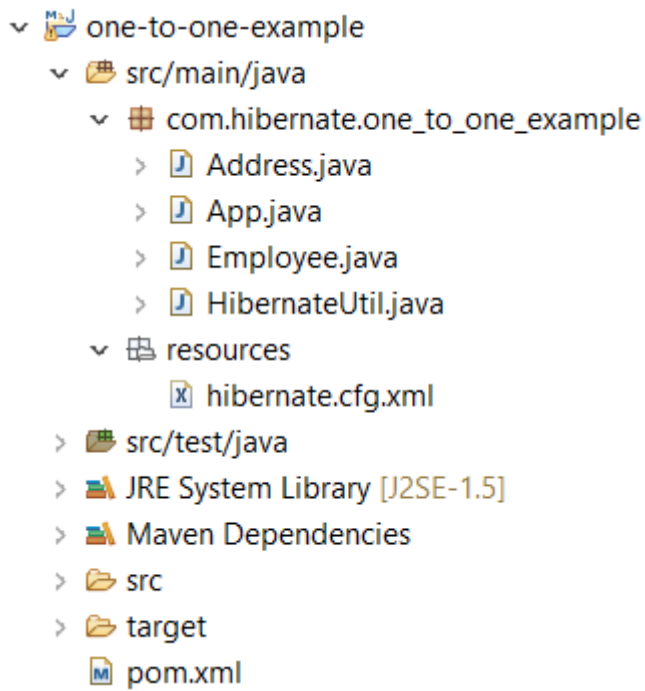


## Project Structure



### Step 1: Create Maven Project

1. Open your IDE (e.g., IntelliJ IDEA, Eclipse).
2. Create a new Maven project.
  - Group ID: com.hibernate
  - Artifact ID: one-to-one-example

### Step 2: Add the below Dependencies to pom.xml

1. mysql-connector-j
2. hibernate-core ( hibernate-core )
3. jakarta.persistence-api (jakarta.persistence )

### Step-3 Create the below Classes

1. Create the Employee class in the com.hibernate.one\_to\_one\_example package.
2. Create the Address class in the com.hibernate.one\_to\_one\_example package.

#### Class : Employee

**package** com.hibernate.one\_to\_one\_example;

**import** jakarta.persistence.\*;

@Entity

@Table(name="employeeemaster")

**public class** Employee {

    @Id

    @GeneratedValue(strategy=GenerationType.**AUTO**)

    @PrimaryKeyJoinColumn

```

private int employeeId;

@Column
private String name;

@Column
private String email;

@OneToOne(targetEntity=Address.class,cascade=CascadeType.ALL)
private Address address;

public void setEmployeeId(int employeeId) { this.employeeId = employeeId;}
public int getEmployeeId() { return employeeId; }

public void setName(String name) { this.name = name; }
public String getName() { return name; }

public void setEmail(String email) { this.email = email; }
public String getEmail() { return email; }

public Address getAddress() { return address; }
public void setAddress(Address address) { this.address = address; }
}

```

#### **Class : Address**

```

package com.hibernate.one_to_one_example;
import jakarta.persistence.*;

@Entity
@Table(name="addressmaster")
public class Address {
    @Id
    @GeneratedValue(strategy=GenerationType.AUTO)
    private int addressId;

    private String addressLine1,city,state,country;
    private int pincode;

    @OneToOne(targetEntity=Employee.class)
    private Employee employee;

    public int getAddressId() {return addressId;}
    public void setAddressId(int addressId) { this.addressId = addressId;}

    public String getAddressLine1() { return addressLine1; }
    public void setAddressLine1(String addressLine1) { this.addressLine1 = addressLine1; }

    public String getCity() { return city; }
    public void setCity(String city) { this.city = city; }
}

```

```

    public String 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 int getPincode() { return pincode; }
    public void setPincode(int pincode) { this.pincode = pincode; }

    public Employee getEmployee() { return employee; }
    public void setEmployee(Employee employee) { this.employee = employee; }
}

```

#### Step 4: Create the hibernate.cfg.xml File

Create an XML file named hibernate.cfg.xml with the following content inside the resources folder.

```

<?xml version="1.0" encoding="UTF-8"?>
<hibernate-configuration>
    <session-factory>
        <property name="hibernate.connection.driver_class"> com.mysql.cj.jdbc.Driver </property>
        <property name="hibernate.connection.url">
            jdbc:mysql://localhost:3306/hibernateDB
        </property>
        <property name="hibernate.connection.username">root</property>
        <property name="hibernate.connection.password">password</property>
        <property name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>
        <property name="show_sql">true</property>
        <property name="format_sql">true</property>
        <property name="hbm2ddl.auto">create </property>

        <mapping class="com.hibernate.one_to_one_example.Employee"/>
        <mapping class="com.hibernate.one_to_one_example.Address"/>

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

```

**Note:** Ensure the MySQL database hibernateDB exists, and replace the username and password with your actual MySQL credentials.

#### Step 5: Create the HibernateUtil Class

Create the HibernateUtil class in the com.hibernate.one\_to\_one\_example package:

```

package com.hibernate.one_to_one_example;

```

```

import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;

public class HibernateUtil {
    private static final SessionFactory sessionFactory = buildSessionFactory();
    private static SessionFactory buildSessionFactory() {
        SessionFactory sessionFactory = null;
        try {
            Configuration configuration = new Configuration();
            configuration.configure("resources/hibernate.cfg.xml");
            sessionFactory = configuration.buildSessionFactory();
        }
        catch (Exception e) { e.printStackTrace(); }
        return sessionFactory;
    }

    public static SessionFactory getSessionFactory() {
        return sessionFactory;
    }
}

```

**Step-6** Now add the below lines of code into **App.java** class file.

```

package com.hibernate.one_to_one_example;

import org.hibernate.Session;
import org.hibernate.Transaction;

public class App {
    public static void main( String[] args ) {
        Session session = HibernateUtil.getSessionFactory().openSession();

        Transaction tran = null;

        try {

            tran = session.beginTransaction();

            Employee employee = new Employee();
            employee.setName("Maksud Vahora");
            employee.setEmail("maksud.vahora72@gmail.com");

            Address address = new Address();
            address.setAddressLine1("Station Road, Park Enclave");
            address.setCity("Vadodara");
            address.setState("Gujarat");
            address.setCountry("India");
            address.setPincode(322560);

```

```
        employee.setAddress(address);
        address.setEmployee(employee);

        session.persist(employee);
        tran.commit();
        System.out.println("Record inserted successfully !");

        session.close();
    }
    catch (Exception e) {
        System.out.println("Error :" + e.getMessage());
    }
}
}
```

**Step-7** Right click on App.java file and Run the application