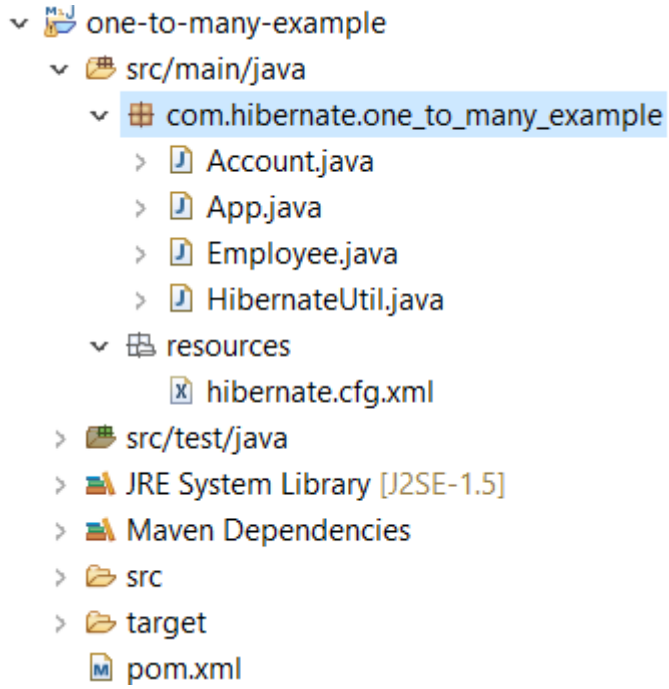
Project Structure



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-many-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 Account class in the com.hibernate.one_to_many_example package.
2. Create the Employee class in the com.hibernate.one_to_many_example package.

Class : Account

```
package com.hibernate.one_to_many_example;

import java.io.Serializable;
import jakarta.persistence.*;

@Entity
@Table(name = "ACCOUNT")
public class Account implements Serializable {
        private static final long serialVersionUID = 1L;

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

```
	@Column(name = "ID")
	private Integer accountId;
	private String accnumber;

	public Integer getAccountId() { return accountId; }
	public void setAccountId(Integer accountId) {
		this.accountId = accountId;}

	public String getAccnumber() { return accnumber;}
	public void setAccnumber(String accnumber) {
		this.accnumber = accnumber;}

}
```

Class : Employee

```
package com.hibernate.one_to_many_example;

import java.io.Serializable;
import java.util.Set;

import jakarta.persistence.CascadeType;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import jakarta.persistence.JoinColumn;
import jakarta.persistence.OneToMany;
import jakarta.persistence.Table;

@Entity
@Table(name="EmployeeMast")
public class Employee implements Serializable {
	private static final long serialVersionUID = 1L;

	@Id
	@GeneratedValue(strategy=GenerationType.IDENTITY)
	@Column(name = "id")
	private int employeeId;

	private String name,email;

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

```
    @JoinColumn(name = "employeeid")
    private Set<Account> accounts;

    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 void setAccounts(Set<Account> accounts) { this.accounts = accounts;}
    public Set<Account> getAccounts() { return accounts; }
}
```

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_many_example.Account"/>
        <mapping class="com.hibernate.one_to_many_example.Employee "/>

    </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_many_example;

import org.hibernate.Session;
import org.hibernate.Transaction;
import java.util.Set;
import java.util.HashSet;

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

        Transaction tran = null;
        try {
                tran = session.beginTransaction();

                Account acc1 = new Account();
                acc1.setAccnumber("AC0001");
                Account acc2 = new Account();
                acc2.setAccnumber("AC0002");
                Account acc3 = new Account();
```

```
            acc3.setAccnumber("AC0003");

            Employee emp1 = new Employee();
            emp1.setName("Maksud Vahora");
            emp1.setEmail("mivahora@yahoo.com");

            Set<Account> acclist = new HashSet<Account>();
            acclist.add(acc1);
            acclist.add(acc2);
            acclist.add(acc3);


            emp1.setAccounts(acclist);
            session.persist(emp1);
            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