

Phase-2 Practice Project: Assisted Practice

2.Configure Hibernate using XML in Eclipse IDE.

hibernate.cfg.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
```

Index.html

```
<title>Hibernate Demo </title>

<h3>Hibernate Configuration Example </h3>
```

[Initialize Hibernate](init)

<h3>Hibernate Query Demo </h3>

[Query Here and get the data](query-demo)

HibernateUtil.java

```
package com.simpli;
```

```
import org.hibernate.SessionFactory;
```

```
import org.hibernate.boot.*;
```

```
import org.hibernate.boot.registry.*;
```

```
public class HibernateUtil {
```

```
    private static final SessionFactory sessionFactory;
```

```
    static {
```

```
        try {
```

```
            StandardServiceRegistry standardRegistry = new  
StandardServiceRegistryBuilder()
```

```
                .configure("hibernate.cfg.xml").build();
```

```
        Metadata metaData = new  
MetadataSources(standardRegistry).getMetadataBuilder().build();
```

```
        sessionFactory = metaData.getSessionFactoryBuilder().build();
```

```
    } catch (Throwable th) {
```

```
        System.out.println(th);
```

```
        throw new ExceptionInInitializerError(th);
```

```
    }
```

```
}
```

```
public static SessionFactory getSessionFactory() {
```

```
    return sessionFactory;
```

```
}
```

```
}
```

EProduct.java

```
package com.ecommerce;
```

```
import java.math.BigDecimal;
```

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

```
public class EProduct {
```

```
private long ID;
```

```
private String name;
```

```
private BigDecimal price;
```

```
private Date dateAdded;
```

```
public EProduct() {
```

```
}
```

```
public EProduct(long id, String name, BigDecimal price, Date dateAdded) {
```

```
    this.ID = id;
```

```
    this.name = name;
```

```
    this.price = price;
```

```
    this.dateAdded = dateAdded;
```

```
}
```

```
public long getID() {
```

```
    return ID;
```

```
}
```

```
public void setID(long iD) {
```

```
    ID = iD;
```

```
}
```

```
public String getName() {  
    return name;  
}
```

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

```
public BigDecimal getPrice() {  
    return price;  
}
```

```
public void setPrice(BigDecimal price) {  
    this.price = price;  
}
```

```
public Date getDateAdded() {  
    return dateAdded;  
}
```

```
public void setDateAdded(Date dateAdded) {  
    this.dateAdded = dateAdded;  
}
```

```
}
```

EProduct.hbm.xml

```
<?xml version="1.0"?>

<!DOCTYPE hibernate-mapping PUBLIC
"-//Hibernate/Hibernate Mapping DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd
```

HibernateQueryDemo.java

```
package com.simpli;

import java.io.*;

import java.io.PrintWriter;

import java.util.List;
```

```
import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.*;

import org.hibernate.*;

import com.ecommerce.EProduct;

@WebServlet("/query-demo")

public class HibernateQueryDemo extends HttpServlet {

    protected void doGet(HttpServletRequest request, HttpServletResponse response)

        throws ServletException, IOException {

        PrintWriter out = response.getWriter();

        out.println("<html><body>");

        // STEP 1: Get a Session (connection) from the Session Factory class
        SessionFactory factory = HibernateUtil.getSessionFactory();

        // STE2 Create the session object
        Session session = factory.openSession();

        out.println("Hibernate Session opened.<br>");

        // STEP 3 Query the DB and get the data
```

```
List<EProduct> eproducts = session.createQuery("from EProduct").list();

out.println("<table border=1>");

for (EProduct prod : eproducts) {

    out.println("<tr>" + "<td>" + prod.getID() + "<td>" + prod.getName() + "<td>" + prod.getPrice() +
"<td>"

                + prod.getDateAdded());

}

    out.println("</table>");

    session.close();

    out.println("Hibernate Session closed.<br>");

    out.println("</body></html>");

}

}
```

Output

Hibernate Query Demo

[Query Here and get the data](#)

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