**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">

<hibernate-configuration>

  <session-factory>

    <!-- Database connection settings -->

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

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

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

    <property name="connection.password">Jyotidevadiga@371</property>

    <mapping  resource="com/ecommerce/EProduct.hbm.xml"/>

  </session-factory>

</hibernate-configuration>


## Index.html

<title>Hibernate Demo  </title>

<h3>Hibernate Configuration Example </h3>

 <a href="init">Initialize Hibernate</a><br>

 <br><br>

<h3>Hibernate Query Demo </h3>

 <a href="query-demo">Query  Here and get the data</a><br>

**HibernateUtil.java**

```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() {
```

```java
    return sessionFactory;}}
```

## EProduct.java

```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;

}
```

```java
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;
```

```java
    }

    public void setDateAdded(Date dateAdded) {

    this.dateAdded = dateAdded;

    }


    }
```

## EProduct.hbm.xml

```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">

<hibernate-mapping package="com.ecommerce">

  <class name="EProduct" table="eproduct">

    <id name="ID" column="ID">

      <generator class="increment"/>

    </id>

    <property name="name" type="string" column="NAME"/>

    <property name="price" type="big_decimal" column="PRICE"/>

    <property name="dateAdded" type="timestamp" column="DATE_ADDED"/>

  </class>

</hibernate-mapping>
```

## HibernateQueryDemo.java

```java
package com.simpli;
```

```java
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>");
```

```java
// 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>");

}

}
```
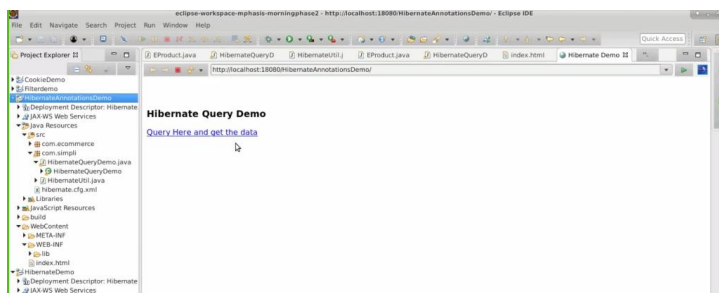
**OUTPUT:**

Hibernate Session opened.
123467891011121314

| HP Laptop ABC | 12000.00 | 2023-05-26 06:51:09.0 |
|---|---|---|
| DELL PC ABC | 19000.00 | 2023-05-26 06:51:09.0 |
| Samsung Laptop PQR | 22000.00 | 2023-05-26 06:51:09.0 |
| Phillips Mixer | 7000.00 | 2023-05-26 07:14:31.0 |
| Apple IPad | 20000.50 | 2023-05-26 10:27:16.0 |
| Apple IPad | 20000.50 | 2023-05-26 10:28:07.0 |
| HP Gaming Laptop | 100000.00 | 2023-05-26 11:06:40.0 |
| HP Gaming Laptop 2 | 200000.00 | 2023-05-26 11:07:39.0 |
| Mac PC | 1.00 | 2023-05-26 11:22:00.0 |
| HP Camera | 2500.00 | 2023-05-26 11:22:15.0 |
| Mac PC | 2.00 | 2023-05-29 04:54:35.0 |
| MAC PC 2 | 3.00 | 2023-05-29 05:15:22.0 |
| HP Gaming PC | 1.00 | 2023-05-29 05:28:36.0 |

Hibernate Session closed.