

## Configure Hibernate using Annotations 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">Simplilearn</property>


        <mapping class="com.ecommerce.EProduct" />

    </session-factory>

</hibernate-configuration>
```

### **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;
}
}

```

## **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>");
}

}

```

## **EPRODUCT.JAVA**

```

package com.ecommerce;

import java.math.BigDecimal;
import java.util.Date;

import javax.persistence.*;

```

@Entity

@Table(name = "eproduct")

public class EProduct {

@Id

@GeneratedValue

@Column(name = "ID")

private long ID;

@Column(name = "name")

private String name;

@Column(name = "price")

private BigDecimal price;

@Column(name = "date\_added")

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;  
}
```

```
}
```

## Index.html

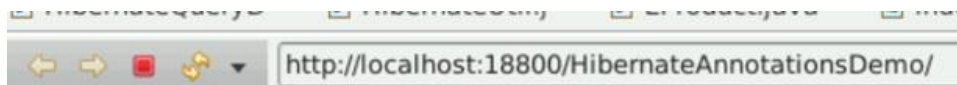
```
<title>Hibernate Demo </title>
```

```
<br><br>
```

```
<h3>Hibernate Annotation Query Demo </h3>
```

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

### Output:



## Hibernate Annotation Query Demo

[Query Here and get the data](#)

