Demonstrate Hibernate logging by Log4j.

```
hibernate.cfg.xml
<?xml version='1.0' encoding='utf-8'?>
<!DOCTYPE hibernate-configuration PUBLIC</p>
"-//Hibernate/Hibernate Configuration DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
 <session-factory>
  <!-- Database connection settings -->
  connection.driver_class">com.mysql.cj.jdbc.Driver
  cproperty name="connection.url">jdbc:mysql://localhost:3306/ecommerce/property>
  connection.username">root
  cproperty 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("");
for (EProduct prod : eproducts) {
out.println("" + "" + prod.getID() + "" + prod.getName() + "" + prod.getPrice()
+ ""
+ prod.getDateAdded());
}
out.println("");
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 {
@ld
@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>
```

Query Here and get the data

Log4j.properties

LOG4J configuration

log4j.rootLogger=DEBUG, Appender1, Appender2

log4j.appender.Appender1=org.apache.log4j.ConsoleAppender

log4j.appender.Appender1.layout=org.apache.log4j.PatternLayout

log4j.appender.Appender1.layout.ConversionPattern=%-7p %d [%t] %c %x - %m%n

log4j.appender.Appender2=org.apache.log4j.FileAppender

log4j.appender.Appender2.File=/home/jyotidevadigamp/Desktop/Mylog.txt

log4j.appender.Appender2.layout=org.apache.log4j.PatternLayout

log4j.appender.Appender2.layout.ConversionPattern=%-7p %d [%t] %c %x - %m%n

Log everything. Good for troubleshooting

log4j.logger.org.hibernate=INFO

Log all JDBC parameters

log4j.logger.org.hibernate.type=ALL

Output:



