# 3) Configure Hibernate Using Annotations in Eclipse IDE

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;

}

}

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>");

}

}

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) {

throw new ExceptionInInitializerError(th);

}

}

public static SessionFactory getSessionFactory() {

return sessionFactory;

}}

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 co"src/com/ecommerce"nnection 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>

HTML Code:

<title>Hibernate Demo </title>

<br><br>

<h3>Hibernate Annotations Query Demo </h3>

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

OUTPUT:

Hibernate Session opened.

3 MAC PC 2 25000.00 2023-05-29 06:11:00.0

4 LG LAPTOP 5000.00 2023-05-29 06:11:47.0

5 NOKIA 4000.00 2023-05-29 06:12:02.0

6 SAMSUNG 55000.00 2023-05-29 13:21:17.0

7 SAMSUNG 55000.00 2023-05-29 13:22:41.0

8 dell 45000.00 2023-05-29 13:34:17.0

Hibernate Session closed.