1. Create a class Student and make a mapping file to map this class. In Student class, Take studentRollno,name,age from user. Sno will be id by default. Create a table maually.

=>

//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>

<property name=*"hbm2ddl.auto"*>update</property>

<property name=*"hibernate.connection.driver\_class"*>oracle.jdbc.driver.OracleDriver</property>

<property name=*"hibernate.connection.password"*>root</property>

<property name=*"hibernate.connection.url"*>jdbc:oracle:thin:@localhost:1521:xe</property>

<property name=*"hibernate.connection.username"*>system</property>

<property name=*"hibernate.dialect"*>org.hibernate.dialect.OracleDialect</property>

<mapping resource=*"Student.hbm.xml"* />

<mapping resource=*"Student2.hbm.xml"* />

</session-factory>

</hibernate-configuration>

//student.java

**package** pack;

**public** **class** Student {

**public** **int** sno;

**public** **int** getSno() {

**return** sno;

}

**public** **void** setSno(**int** sno) {

**this**.sno = sno;

}

**public** **int** studentRollno,age;

**public** String name;

**public** **int** getStudentRollno() {

**return** studentRollno;

}

**public** **void** setStudentRollno(**int** studentRollno) {

**this**.studentRollno = studentRollno;

}

**public** **int** getAge() {

**return** age;

}

**public** **void** setAge(**int** age) {

**this**.age = age;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

}

//student.hbm.xml

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

<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"

"http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping>

<class name=*"pack.Student"* table=*"student392"*>

<id name=*"sno"* type=*"int"*>

<column name=*"SNO"* />

<generator class=*"increment"* />

</id>

<property name=*"studentRollno"* type=*"int"*>

<column name=*"STUDENTROLLNO"* />

</property>

<property name=*"age"* type=*"int"*>

<column name=*"AGE"* />

</property>

<property name=*"name"* type=*"java.lang.String"*>

<column name=*"NAME"* />

</property>

</class>

</hibernate-mapping>

//st1.java

package pack;

import java.util.Scanner;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.cfg.Configuration;

public class St1 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("ENTER THE ROLLNO : ");

int ro = sc.nextInt();

sc.nextLine();

System.out.println("ENTER THE NAME : ");

String nm = sc.nextLine();

System.out.println("ENTER THE AGE : ");

int ag = sc.nextInt();

SessionFactory sf = new Configuration().configure().buildSessionFactory();

Session s = sf.openSession();

s.beginTransaction();

Student st = new Student();

st.setStudentRollno(ro);

st.setName(nm);

st.setAge(ag);

s.save(st);

s.getTransaction().commit();

s.close();

sf.close();

sc.close();

System.out.println("RECORD SUCCESSFULLY INSERTED");

}

}

//////////////////////////////////////////////////////////////////////////////////////////////

2.] Create a class Student and make a mapping file to map this class. In Student class, Take studentRollno,name,age from user. Sno will be id by default. Table should be created by hibernate and the records in the table should be updated.

=>

//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>

<property name=*"hbm2ddl.auto"*>update</property>

<property name=*"hibernate.connection.driver\_class"*>oracle.jdbc.driver.OracleDriver</property>

<property name=*"hibernate.connection.password"*>root</property>

<property name=*"hibernate.connection.url"*>jdbc:oracle:thin:@localhost:1521:xe</property>

<property name=*"hibernate.connection.username"*>system</property>

<property name=*"hibernate.dialect"*>org.hibernate.dialect.OracleDialect</property>

<mapping resource=*"Student.hbm.xml"* />

<mapping resource=*"Student2.hbm.xml"* />

</session-factory>

</hibernate-configuration>

//student2.java

**package** pack;

**public** **class** Student2 {

**public** **int** sno;

**public** **int** studentRollno,age;

**public** String name;

**public** **int** getSno() {

**return** sno;

}

**public** **void** setSno(**int** sno) {

**this**.sno = sno;

}

**public** **int** getStudentRollno() {

**return** studentRollno;

}

**public** **void** setStudentRollno(**int** studentRollno) {

**this**.studentRollno = studentRollno;

}

**public** **int** getAge() {

**return** age;

}

**public** **void** setAge(**int** age) {

**this**.age = age;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

}

//student2.hbm.xml

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

<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"

"http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping>

<class name=*"pack.Student2"* table=*"STUDENT2"*>

<id name=*"sno"* type=*"int"*>

<column name=*"SNO"* />

<generator class=*"assigned"* />

</id>

<property name=*"studentRollno"* type=*"int"*>

<column name=*"STUDENTROLLNO"* />

</property>

<property name=*"age"* type=*"int"*>

<column name=*"AGE"* />

</property>

<property name=*"name"* type=*"java.lang.String"*>

<column name=*"NAME"* />

</property>

</class>

</hibernate-mapping>

//st2.java

package pack;

import java.util.Scanner;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.cfg.Configuration;

public class St2 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("ENTER THE ROLLNO : ");

int ro = sc.nextInt();

System.out.println("ENTER THE NAME : ");

String nm = sc.nextLine();

System.out.println("ENTER THE AGE : ");

int ag = sc.nextInt();

SessionFactory sf = new Configuration().configure().buildSessionFactory();

Session s = sf.openSession();

s.beginTransaction();

Student2 st2 = new Student2();

st2.setStudentRollno(ro);

st2.setName(nm);

st2.setAge(ag);

s.save(st2);

s.getTransaction().commit();

s.close();

sf.close();

sc.close();

System.out.println("RECORD INSERTED SUCCESSFULLY......");

}

}

//////////////////////////////////////////////////////////////////////////////////////////////

3. Make a class Account which has fields like accno,name & acctype. Acoount class will be Entity class. Take data from user and the table will be created automatically.

=>

//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>

<property name=*"hbm2ddl.auto"*>update</property>

<property name=*"hibernate.connection.driver\_class"*>oracle.jdbc.driver.OracleDriver</property>

<property name=*"hibernate.connection.password"*>root</property>

<property name=*"hibernate.connection.url"*>jdbc:oracle:thin:@localhost:1521:xe</property>

<property name=*"hibernate.connection.username"*>system</property>

<property name=*"hibernate.dialect"*>org.hibernate.dialect.OracleDialect</property>

<mapping resource=*"Student.hbm.xml"* />

<mapping resource=*"Student2.hbm.xml"* />

</session-factory>

</hibernate-configuration>

//Amount.java

package pack;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name = "amount")

public class Amount {

@Id

@GeneratedValue(strategy = GenerationType.TABLE)

public int sno;

public int accno;

public String name,acctype;

public int getSno() {

return sno;

}

public void setSno(int sno) {

this.sno = sno;

}

public int getAccno() {

return accno;

}

public void setAccno(int accno) {

this.accno = accno;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getAcctype() {

return acctype;

}

public void setAcctype(String acctype) {

this.acctype = acctype;

}

}

//A1.java

package pack;

import java.util.Scanner;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.cfg.Configuration;

public class A1 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("ENTER THE ACCOUNT NUMBER : ");

int ro = sc.nextInt();

sc.nextLine();

System.out.println("ENTER THE ACCOUNT NAME : ");

String nm = sc.nextLine();

System.out.println("ENTER THE ACCOUNT TYPE : ");

String ag = sc.nextLine();

SessionFactory sf = new Configuration().configure().addAnnotatedClass(Amount.class).buildSessionFactory();

Session s = sf.openSession();

s.beginTransaction();

Amount am = new Amount();

am.setAccno(ro);

am.setName(nm);

am.setAcctype(ag);

s.save(am);

s.getTransaction().commit();

s.close();

sf.close();

sc.close();

System.out.println("RECORD SUCCESSFULLY INSERTED");

}

}

//////////////////////////////////////////////////////////////////////////////////////////////

4. Create a hibernate project in Maven which is a Dynamic web Project and Create a mapping file for the POJO class.Two JSP pages(A,B) will be created.First Jsp will

accepts username,Password and stores the deails in the logintable. In the same project Create another servlet which updates the password in the table. Create a

seperate JSP to update the password.Once the record is saved in table then second JSP page will display the message as "Record submitted".

=>

//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>

<property name=*"hbm2ddl.auto"*>update</property>

<property name=*"hibernate.connection.driver\_class"*>oracle.jdbc.driver.OracleDriver</property>

<property name=*"hibernate.connection.password"*>root</property>

<property name=*"hibernate.connection.url"*>jdbc:oracle:thin:@localhost:1521:xe</property>

<property name=*"hibernate.connection.username"*>system</property>

<property name=*"hibernate.dialect"*>org.hibernate.dialect.OracleDialect</property>

<property name=*"show\_sql"*>true</property>

<mapping resource=*"prod1.hbm.xml"*/>

<mapping resource=*"POJO.hbm.xml"* />

</session-factory>

</hibernate-configuration>

//POJO.java

**package** ASSIGNMENTS;

**public** **class** POJO {

**public** **int** sno;

**public** **int** getSno() {

**return** sno;

}

**public** **void** setSno(**int** sno) {

**this**.sno = sno;

}

**public** String usnm,pswd;

**public** String getUsnm() {

**return** usnm;

}

**public** **void** setUsnm(String usnm) {

**this**.usnm = usnm;

}

**public** String getPswd() {

**return** pswd;

}

**public** **void** setPswd(String pswd) {

**this**.pswd = pswd;

}

}

//POJO.hm.xml

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

<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"

"http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping>

<class name=*"ASSIGNMENTS.POJO"* table=*"POJO"*>

<id name=*"sno"* type=*"int"*>

<column name=*"SNO"* />

<generator class=*"increment"* />

</id>

<property name=*"usnm"* type=*"java.lang.String"*>

<column name=*"USNM"* />

</property>

<property name=*"pswd"* type=*"java.lang.String"*>

<column name=*"PSWD"* />

</property>

</class>

</hibernate-mapping>

//A.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"serv1"*>

USERNAME <input type=*"text"* name=*"us"*>

PASSWORD <input type=*"password"* name=*"pass"*>

<input type=*"submit"* value=*"ENTER"*>

</form>

</body>

</html>

//SERVLET - 1

**package** ASSIGNMENTS;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.cfg.Configuration;

**public** **class** serv1 **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

PrintWriter out = response.getWriter();

String us = request.getParameter("us");

String pa = request.getParameter("pass");

SessionFactory sf = **new** Configuration().configure().buildSessionFactory();

Session s = sf.openSession();

s.beginTransaction();

POJO p = **new** POJO();

p.setSno(101);

p.setUsnm(us);

p.setPswd(pa);

s.save(p);

s.getTransaction().commit();

s.close();

sf.close();

out.print("TABLE CREATED AND RECORD SUCCESSFULLY INSERTED...................");

}

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

//B.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"serv2"*>

ID <input type=*"text"* name=*"id"*>

PASSWORD<input type=*"password"* name=*"pass"*>

<input type=*"submit"* value=*"SUBMIT"*>

</form>

</body>

</html>

//SERVLET - 2

**package** ASSIGNMENTS;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.cfg.Configuration;

**public** **class** serv2 **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

PrintWriter out = response.getWriter();

**int** sno = Integer.*parseInt*(request.getParameter("id"));

String pa = request.getParameter("pass");

SessionFactory sf = **new** Configuration().configure().buildSessionFactory();

Session s = sf.openSession();

s.beginTransaction();

POJO p = s.get(POJO.**class**, sno);

p.setPswd(pa);

s.update(p);

s.getTransaction().commit();

s.close();

sf.close();

out.print("PASSWORD UPDATED");

}

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

//////////////////////////////////////////////////////////////////////////////////////////////

5. Make a simple project in Maven using Hibernate to take the details about a Employee like EmpID,Name,Salary. Delete and Update the specific record.

=>

//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>

<property name=*"hbm2ddl.auto"*>update</property>

<property name=*"hibernate.connection.driver\_class"*>oracle.jdbc.driver.OracleDriver</property>

<property name=*"hibernate.connection.password"*>root</property>

<property name=*"hibernate.connection.url"*>jdbc:oracle:thin:@localhost:1521:xe</property>

<property name=*"hibernate.connection.username"*>system</property>

<property name=*"hibernate.dialect"*>org.hibernate.dialect.OracleDialect</property>

<mapping resource=*"Employee.hbm.xml"* />

</session-factory>

</hibernate-configuration>

//Employee.java

**package** Assignments;

**public** **class** Employee {

**public** **int** EmpID,salary;

**public** String ename;

**public** **int** getEmpID() {

**return** EmpID;

}

**public** **void** setEmpID(**int** empID) {

EmpID = empID;

}

**public** **int** getSalary() {

**return** salary;

}

**public** **void** setSalary(**int** salary) {

**this**.salary = salary;

}

**public** String getEname() {

**return** ename;

}

**public** **void** setEname(String ename) {

**this**.ename = ename;

}

}

//Employee.hbm.xml

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

<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"

"http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping>

<class name=*"Assignments.Employee"* table=*"EMPLOYEE"*>

<id name=*"EmpID"* type=*"int"*>

<column name=*"EMPID"* />

<generator class=*"increment"* />

</id>

<property name=*"salary"* type=*"int"*>

<column name=*"SALARY"* />

</property>

<property name=*"ename"* type=*"java.lang.String"*>

<column name=*"ENAME"* />

</property>

</class>

</hibernate-mapping>

//emp\_main.java

**package** Assignments;

**import** java.util.Scanner;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.cfg.Configuration;

**public** **class** emp\_main {

**public** **static** **void** main(String[] args) {

SessionFactory sf = **new** Configuration().configure().buildSessionFactory();

Session s = sf.openSession();

s.beginTransaction();

Scanner sc = **new** Scanner(System.***in***);

/\*

System.out.println("ENTER NAME1 : ");

String nm1 = sc.nextLine();

System.out.println("ENTER SALARY1 : ");

int sal1 =sc.nextInt();

sc.nextLine();

System.out.println("ENTER NAME2 : ");

String nm2 = sc.nextLine();

System.out.println("ENTER SALARY2 : ");

int sal2 =sc.nextInt();

sc.nextLine();

System.out.println("ENTER NAME3 : ");

String nm3 = sc.nextLine();

System.out.println("ENTER SALARY3 : ");

int sal3 =sc.nextInt();

Employee e1 = new Employee();

e1.setEname(nm1);

e1.setSalary(sal1);

Employee e2 = new Employee();

e2.setEname(nm2);

e2.setSalary(sal2);

Employee e3 = new Employee();

e3.setEname(nm3);

e3.setSalary(sal3);

s.save(e1);

s.save(e2);

s.save(e3);

s.getTransaction().commit();

s.close();

System.out.println("RECORD SUCCESSFULLY INSERTED....");

\*/

/\*

s = sf.openSession();

s.beginTransaction();

System.out.println("ENTER ID TO BE DELETE : ");

int del = sc.nextInt();

sc.nextLine();

Employee e4 = new Employee();

e4.setEmpID(del);

s.delete(e4);

s.getTransaction().commit();

s.close();

System.out.println("RECORD DELETED....");

\*/

s = sf.openSession();

s.beginTransaction();

System.***out***.println("ENTER ID TO UPDATE : ");

**int** upd = sc.nextInt();

sc.nextLine();

Employee e5 = s.get(Employee.**class**, upd);

e5.setEname("ABHILASH");

e5.setSalary(30000);

s.update(e5);

s.getTransaction().commit();

s.close();

sf.close();

System.***out***.println("RECORD UPDATED..............");

}

}

//////////////////////////////////////////////////////////////////////////////////////////////