

Employee Management System using Annotation

P	oject : Emp_Ms	. 1
	Table Structure	
	hibernate.cfg.xml	
	Employee.java	
	Hn_wa1.java	. :

Project: Hn_wa1

Table Structure

```
create table EMPLOYEE (
   id INT NOT NULL auto_increment,
   first_name VARCHAR(20) default NULL,
   last_name VARCHAR(20) default NULL,
   salary INT default NULL,
   PRIMARY KEY (id)
);
```

hibernate.cfg.xml



}

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property name="hibernate.connection.username">root/property> </session-factory> </hibernate-configuration> Employee.java package hn_wa1; import javax.persistence.*; @Entity @Table(name = "EMPLOYEE") public class Employee { @Id @GeneratedValue @Column(name = "id") private int id; @Column(name = "first_name") private String firstName; @Column(name = "last_name") private String lastName; @Column(name = "salary") private int salary; public Employee() {} public int getId() { return id; public void setId(int id) { this.id = id; public String getFirstName() { return firstName;



```
public void setFirstName( String first_name ) {
   this.firstName = first_name;
 }
 public String getLastName() {
   return lastName;
 }
 public void setLastName( String last_name ) {
   this.lastName = last_name;
 }
  public int getSalary() {
   return salary;
 }
 public void setSalary( int salary ) {
   this.salary = salary;
 }
}
Hn wa1.java
package hn_wa1;
import java.util.List;
import java.util.Date;
import java.util.Iterator;
import org.hibernate.HibernateException;
import org.hibernate.Session;
import org.hibernate.Transaction;
import org.hibernate.cfg.AnnotationConfiguration;
import org.hibernate.SessionFactory;
```



import org.hibernate.cfg.Configuration;

```
* @author Administrator
*/
public class Hn_wa1 {
  private static SessionFactory factory;
 public static void main(String[] args) {
   try {
    factory = new
AnnotationConfiguration().configure().addAnnotatedClass(Employee.class).buildSessionFactory();
   } catch (Throwable ex) {
    System.err.println("Failed to create sessionFactory object." + ex);
    throw new ExceptionInInitializerError(ex);
   }
   Hn_wa1 ME = new Hn_wa1();
   Integer empID1 = ME.addEmployee("abcd1", "abcd2", 1000);
   Integer empID2 = ME.addEmployee("asdf1", "asdf2", 5000);
   Integer empID3 = ME.addEmployee("bbc1", "bbc2", 10000);
   ME.listEmployees();
```



```
ME.updateEmployee(empID1, 5000);
 //ME.deleteEmployee(empID2);
 ME.listEmployees();
}
public Integer addEmployee(String fname, String Iname, int salary){
 Session session = factory.openSession();
 Transaction tx = null;
 Integer employeeID = null;
 try {
   tx = session.beginTransaction();
   Employee employee = new Employee();
   employee.setFirstName(fname);
   employee.setLastName(Iname);
   employee.setSalary(salary);
   employeeID = (Integer) session.save(employee);
   tx.commit();
 } catch (HibernateException e) {
   if (tx!=null) tx.rollback();
   e.printStackTrace();
 } finally {
   session.close();
```



```
return employeeID;
}
public void listEmployees( ){
 Session session = factory.openSession();
 Transaction tx = null;
 try {
   tx = session.beginTransaction();
   List employees = session.createQuery("FROM Employee").list();
   for (Iterator iterator = employees.iterator(); iterator.hasNext();){
     Employee employee = (Employee) iterator.next();
     System.out.print("First Name: " + employee.getFirstName());
     System.out.print(" Last Name: " + employee.getLastName());
     System.out.println(" Salary: " + employee.getSalary());
   }
   tx.commit();
 } catch (HibernateException e) {
   if (tx!=null) tx.rollback();
   e.printStackTrace();
 } finally {
   session.close();
 }
}
```



```
Session session = factory.openSession();
 Transaction tx = null;
 try {
   tx = session.beginTransaction();
   Employee employee = (Employee)session.get(Employee.class, EmployeeID);
   employee.setSalary( salary );
               session.update(employee);
   tx.commit();
 } catch (HibernateException e) {
   if (tx!=null) tx.rollback();
   e.printStackTrace();
 } finally {
   session.close();
 }
}
public void deleteEmployee(Integer EmployeeID){
 Session session = factory.openSession();
 Transaction tx = null;
 try {
   tx = session.beginTransaction();
   Employee employee = (Employee)session.get(Employee.class, EmployeeID);
   session.delete(employee);
   tx.commit();
 } catch (HibernateException e) {
   if (tx!=null) tx.rollback();
```

