**Domain class/persistence class: Student.java**

package com.hib.domain;

import java.io.Serializable;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name="stu")

public class Student implements Serializable{

@Id

@Column(name="sid")

private int sid;

@Column(name="sname")

private String sname;

@Column(name="salary")

private float marks;

public int getSid() {

return sid;

}

public void setSid(int sid) {

this.sid = sid;

}

public String getSname() {

return sname;

}

public void setSname(String sname) {

this.sname = sname;

}

public float getMarks() {

return marks;

}

public void setMarks(float marks) {

this.marks = marks;

}

}

**Hibernate Configuration File:**

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

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

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

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

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

<mapping class=*"com.hib.domain.Student"*/>

</session-factory>

</hibernate-configuration>

**ClientApplication: Test.java**

**package** com.hib.domain;

**import** java.util.Iterator;

**import** java.util.List;

**import** java.util.Scanner;

**import** javax.persistence.NonUniqueResultException;

**import** org.hibernate.SQLQuery;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Transaction;

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

**import** org.hibernate.classic.Session;

**public** **class** Test {

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

**try** {

Configuration cfg=**new** Configuration();

cfg.configure("com/hib/domain/hibernate.cfg.xml");

SessionFactory sf=cfg.buildSessionFactory();

Session s=sf.openSession();

Transaction t=s.beginTransaction();

SQLQuery q;

Scanner s1=**new** Scanner(System.***in***);

System.***out***.println("Retrieve records Using. \n 1. Select all Records using list \n 2. Create stu table \n 3. Drop Table \n 4.Insert Record \n 5. Delete a Record \n 6. Update a Record");

System.***out***.print("Enter the choice:");

**int** ch=s1.nextInt();

**switch**(ch) {

**case** 1:

q=s.createSQLQuery("select \* from stu");

q.addEntity(Student.**class**);

List<Student>l=q.list();

System.***out***.println("sNo"+"\t"+"sName"+"\t"+"Marks");

System.***out***.println("===============================");

**for**(Student s2:l) {

System.***out***.println(s2.getSid()+"\t"+s2.getSname()+"\t"+s2.getMarks());

}

**break**;

**case** 2:

q=s.createSQLQuery("create table stu(sid number(2),sname varchar2(10),salary number(7,2))");

q.addEntity(Student.**class**);

**int** x=q.executeUpdate();

t.commit();

System.***out***.println("Records Updated:");

**break**;

**case** 3:

q=s.createSQLQuery("drop table stu");

q.addEntity(Student.**class**);

q.executeUpdate();

t.commit();

System.***out***.println("Records Updated:");

**break**;

**case** 4:

q=s.createSQLQuery("Insert into stu values(?,?,:sal)");

System.***out***.print("Enter the sid:");

q.setInteger(0, s1.nextInt());

s1.nextLine();

System.***out***.print("Enter the sname:");

q.setString(1, s1.nextLine());

System.***out***.print("Enter the sal:");

q.setFloat("sal", s1.nextFloat());

q.addEntity(Student.**class**);

**int** z=q.executeUpdate();

t.commit();

System.***out***.println("Records Updated:"+z);

**break**;

**case** 5:

q=s.createSQLQuery("delete from stu where sid=?");

System.***out***.print("Enter the sid:");

q.setInteger(0, s1.nextInt());

**int** count=q.executeUpdate();

t.commit();

System.***out***.println("Records Deleted:"+count);

**break**;

**case** 6:

q=s.createSQLQuery("update stu set sid=77 where sid=?");

System.***out***.print("Enter the sid:");

q.setInteger(0, s1.nextInt());

**int** count1=q.executeUpdate();

t.commit();

System.***out***.println("Records updated:"+count1);

**default**:

System.***out***.println("Wrong Option");

}

}

**catch**(Exception e) {

System.***out***.println(e.getMessage());

}

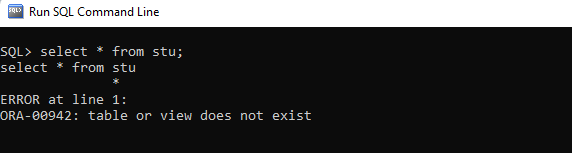
}

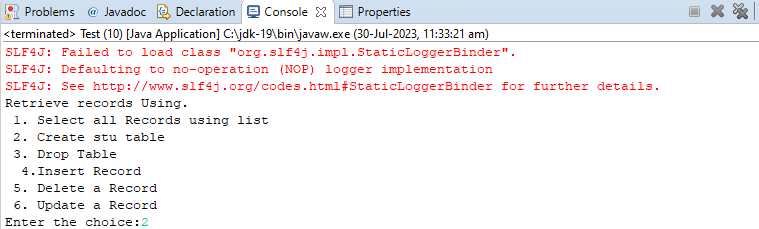
}

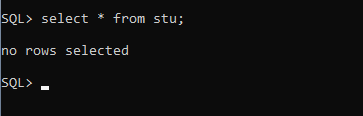
Output:-

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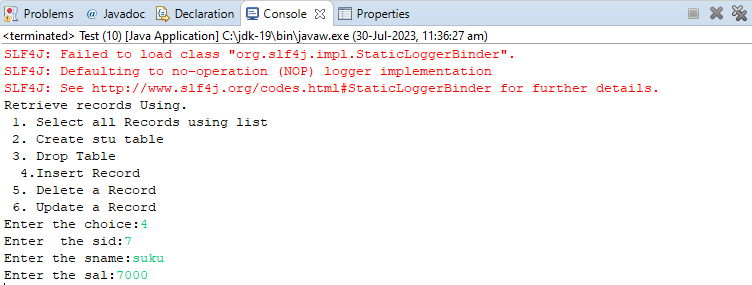
Run-1

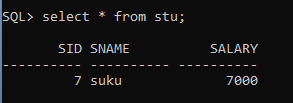






Run:-2





Run3:

