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1.     Develop a basic Create, Read operation using Hibernate for a simple entity, such as Student

2.     Use get() method to fetch a student object with an ID that doesn't exist in the database. What will be the result, and how would you handle it?

3.     Also demonstrate use of load() method.

**//Student.java**

package com.demo.lab;

import javax.persistence.Entity;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name = "students")

public class Student {

@Id

private int id;

private String name;

private String email;

// Getters and Setter method for id, name and email

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

}

**//App.java**

package com.demo.lab;

import com.demo.lab.Student;

import org.hibernate.Session;

import org.hibernate.Transaction;

public class App {

public static void main(String[] args)

// Creating student id, name and email

//*createStudent*(1, "Manasvi", "manasvi@gmail.com");

*createStudent*(2, "Durva", "durvag@gmail.com");

// Read operation using get() method

// *readStudent*(1);

*readStudent*(2);

// Read operation using load() method

//*readStudentUsingLoad*(2);

*readStudentUsingLoad*(1);

}

private static void createStudent(int id, String name, String email) {

Session session = HibernateUtil.*getSessionFactory*().openSession();

Transaction transaction = null;

try {

transaction = session.beginTransaction();

Student student = new Student();

student.setId(id);

student.setName(name);

student.setEmail(email);

session.save(student);

transaction.commit();

System.*out*.println("Student created successfully");

} catch (Exception e) {

if (transaction != null) transaction.rollback();

e.printStackTrace();

} finally {

session.close();

}

}

**//get() method to fetch a student object with an ID that doesn't exist in the database**

private static void readStudent(int id) {

Session session = HibernateUtil.*getSessionFactory*().openSession();

try {

Student student = session.get(Student.class, id);

if (student != null) {

System.*out*.println("Student Details using get(): " + student.getName() + ", " + student.getEmail());

} else {

System.*out*.println("Student not found using get()method with ID: " + id);

}

} catch (Exception e) {

e.printStackTrace();

} finally {

session.close();

}

}

**//use of load() method**

private static void readStudentUsingLoad(int id) {

Session session = HibernateUtil.*getSessionFactory*().openSession();

try {

Student student = session.load(Student.class, id);

//will display the output if student details are found

System.*out*.println("Student Details using load(): " + student.getName() + ", " + student.getEmail());

} catch (org.hibernate.ObjectNotFoundException e) {

System.*out*.println("No student found using load() with ID: " + id);

} catch (Exception e) {

e.printStackTrace();

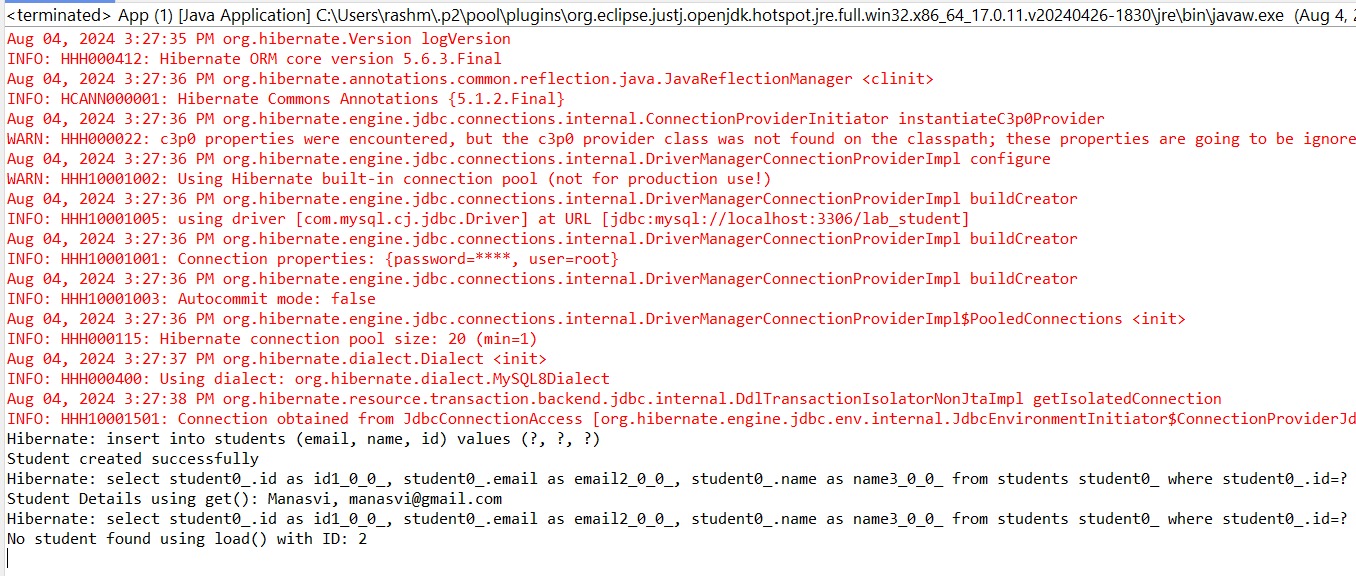
} finally {

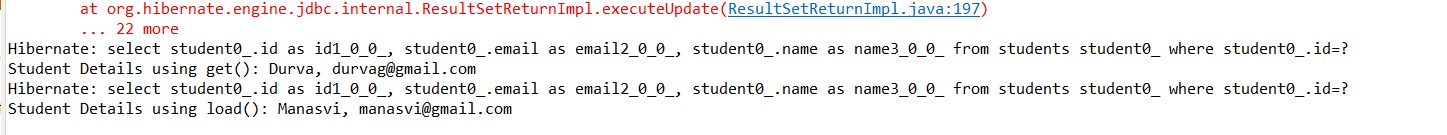
session.close();

}

}

}

**Output:** ****

****

