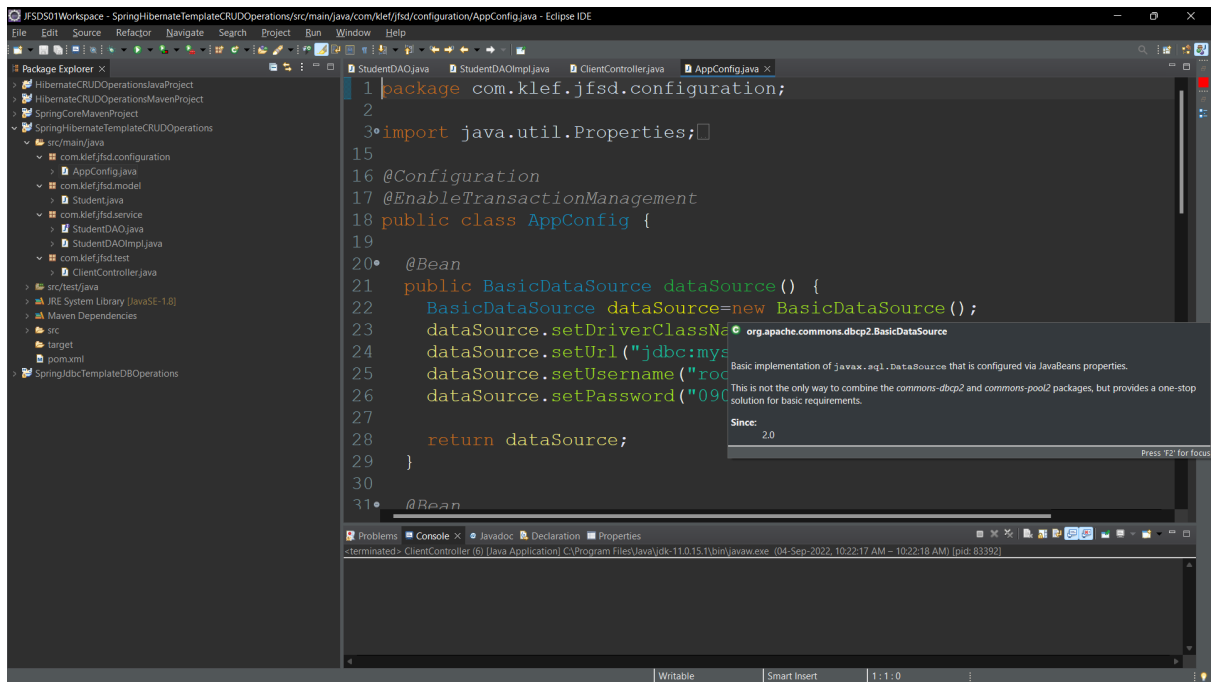
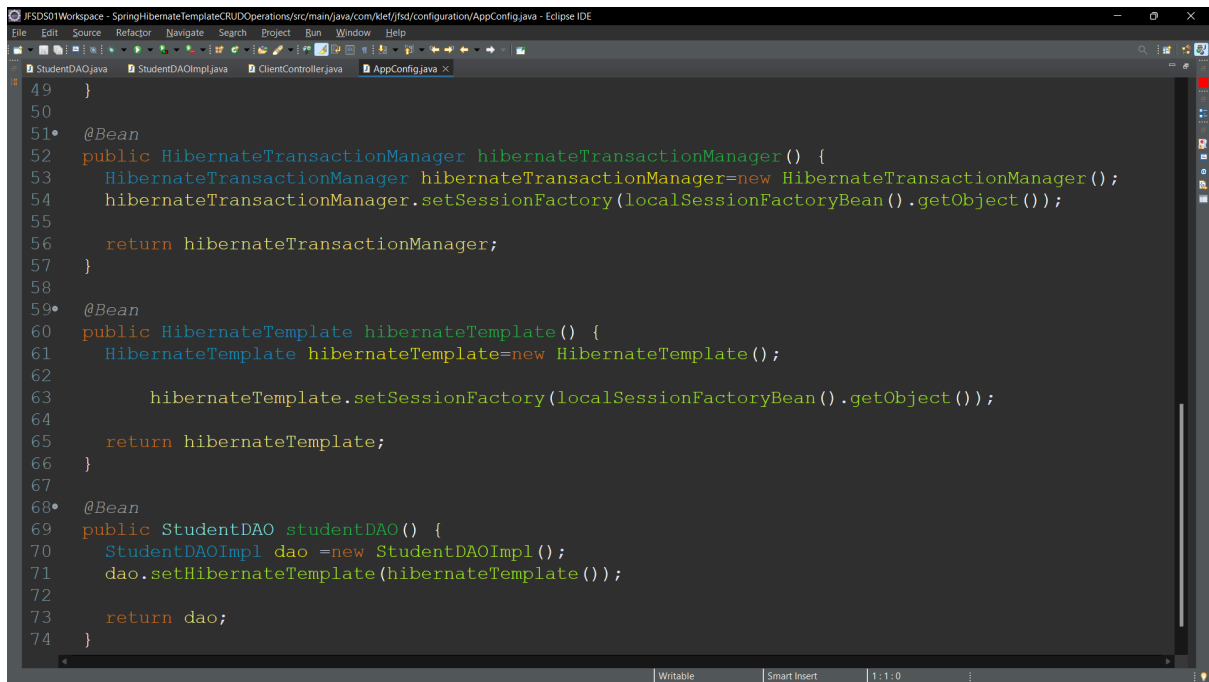


```
60
61• public void ViewStudentRecordById() {
62
63     Student student=dao.viewStudentById(5);
64     if(student!=null) System.out.println(student.toString());
65     else System.out.println("Student Object not found");
66 }
67
68• public void ViewAllStudents() {
69
70     List<Student> studentlist = dao.viewAllStudents();
71     int count = studentlist.size();
72     System.out.println("Total Student Recors =" +count);
73     if(count>0) {
74         for(Student s:studentlist)
75         {
76             System.out.println(s.toString());
77         }
78     }
79
80     else {
81         System.out.println("Student Data Not Found");
82     }
83
84 }
85 }
```

AppConfig.java



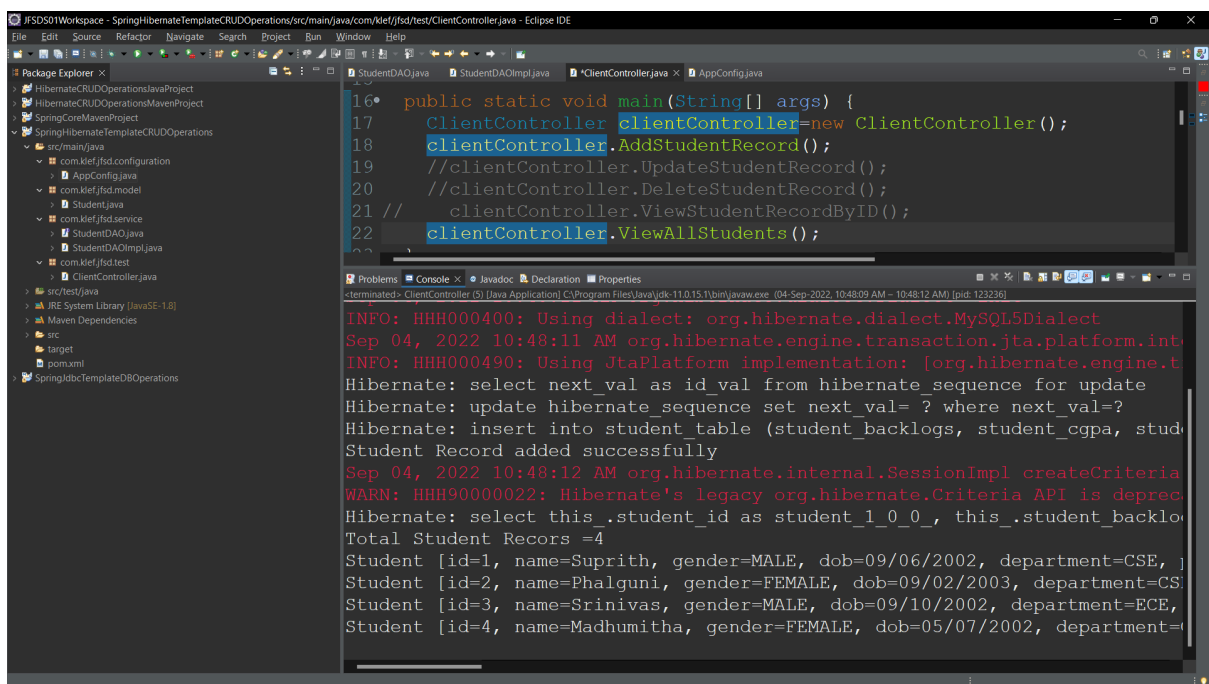
```
1 package com.klef.jfsd.configuration;
2
3 import java.util.Properties;
4
5 @Configuration
6 @EnableTransactionManagement
7 public class AppConfig {
8
9     @Bean
10    public BasicDataSource dataSource() {
11        BasicDataSource dataSource = new BasicDataSource();
12        dataSource.setDriverClassName("org.apache.commons.dbcp2.BasicDataSource");
13        dataSource.setUrl("jdbc:mysql://localhost:3306/hibernatecrud");
14        dataSource.setUsername("root");
15        dataSource.setPassword("09090909");
16
17        return dataSource;
18    }
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```
49 }
50
51 @Bean
52 public HibernateTransactionManager hibernateTransactionManager() {
53     HibernateTransactionManager hibernateTransactionManager=new HibernateTransactionManager();
54     hibernateTransactionManager.setSessionFactory(localSessionFactoryBean().getObject());
55
56     return hibernateTransactionManager;
57 }
58
59 @Bean
60 public HibernateTemplate hibernateTemplate() {
61     HibernateTemplate hibernateTemplate=new HibernateTemplate();
62
63     hibernateTemplate.setSessionFactory(localSessionFactoryBean().getObject());
64
65     return hibernateTemplate;
66 }
67
68 @Bean
69 public StudentDAO studentDAO() {
70     StudentDAOImpl dao =new StudentDAOImpl();
71     dao.setHibernateTemplate(hibernateTemplate());
72
73     return dao;
74 }
```

Output:

Insertion and Select Operations:



```
16 public static void main(String[] args) {
17     ClientController clientController=new ClientController();
18     clientController.AddStudentRecord();
19     //clientController.UpdateStudentRecord();
20     //clientController.DeleteStudentRecord();
21     // clientController.ViewStudentRecordByID();
22     clientController.ViewAllStudents();
23 }
```

INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQL5Dialect
Sep 04, 2022 10:48:11 AM org.hibernate.engine.transaction.jta.platform.int
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.t
Hibernate: select next_val as id_val from hibernate_sequence for update
Hibernate: update hibernate_sequence set next_val= ? where next_val=?
Hibernate: insert into student_table (student_backlogs, student_cgpa, stud
Student Record added successfully
Sep 04, 2022 10:48:12 AM org.hibernate.internal.SessionImpl createCriteria
WARN: HHH90000022: Hibernate's legacy org.hibernate.Criteria API is deprec
Hibernate: select this_.student_id as student_1_0_0_, this_.student_backlo
Total Student Recors =4
Student [id=1, name=Suprith, gender=MALE, dob=09/06/2002, department=CSE,]
Student [id=2, name=Phalguni, gender=FEMALE, dob=09/02/2003, department=CS
Student [id=3, name=Srinivas, gender=MALE, dob=09/10/2002, department=ECE,
Student [id=4, name=Madhumitha, gender=FEMALE, dob=05/07/2002, department=

The screenshot displays the Eclipse IDE environment for a SpringHibernateTemplateCRUDOperations project. The MySQL 8.0 Command Line Client is open, showing the database schema and the contents of the student_table. The Java IDE shows the ClientController.java file with the following code:

```

public class ClientController {
    private Session session;

    public ClientController() {
        // Initialization code
    }

    public void addStudentRecord() {
        // Add student record logic
    }

    public void updateStudentRecord() {
        // Update student record logic
    }

    public void deleteStudentRecord() {
        // Delete student record logic
    }

    public List<Student> getAllStudents() {
        // Get all students logic
    }
}

```

The console output shows the following messages:

```

Student Record added successfully
Sep 04, 2022 10:48:12 AM org.hibernate.internal.SessionImpl createCriteria
WARN: HHH90000022: Hibernate's legacy org.hibernate.Criteria API is deprecated
Hibernate: select this_.student_id as student_1_0_0_, this_.student_backlogs as student_2_0_0_, this_.student_cgpa as student_3_0_0_, this_.student_contactno as student_4_0_0_, this_.student_department as student_5_0_0_, this_.student_dob as student_6_0_0_, this_.student_emailid as student_7_0_0_ from student_table this_
Total Student Records = 4
Student [id=1, name=Suprith, gender=MALE, dob=09/06/2002, department=CSE, ]
Student [id=2, name=Phalguni, gender=FEMALE, dob=09/02/2003, department=CS
Student [id=3, name=Srinivas, gender=MALE, dob=09/10/2002, department=ECE, ]
Student [id=4, name=Madhumitha, gender=FEMALE, dob=05/07/2002, department=

```

UpdateOperation:

#FSDS01Workspace - SpringHibernateTemplateCRUDOperations/src/main/java/com/kief/jfsd/test/ClientController.java - Eclipse IDE

Package Explorer

- hibernateCRUDOperationsJavaProject
- hibernateCRUDOperationsMavenProject
- SpringCoreMavenProject
- SpringHibernateTemplateCRUDOperations
 - src/main/java
 - com.kief.jfsd.configuration
 - AppConfig.java
 - com.kief.jfsd.model
 - Student.java
 - com.kief.jfsd.service
 - StudentDAO.java
 - StudentDAOImpl.java
 - com.kief.jfsd.test
 - ClientController.java
 - src/test/java
 - JRE System Library [Javase-1.8]
 - Maven Dependencies
 - src
 - target
 - pom.xml

```
15
16 public static void main(String[] args) {
17     ClientController clientController=new ClientController();
18     //clientController.AddStudentRecord();
19     clientController.UpdateStudentRecord();
20     //clientController.DeleteStudentRecord();
21     //clientController.ViewStudentRecordById();
22 }
```

Problems Console Javadoc Declaration Properties

<terminated> ClientController (5) [Java Application] C:\Program Files\Java\jdk-11.0.15\bin\java.exe (04-Sep-2022, 10:49:57 AM - 10:50:00 AM) [pid: 22876]

Sep 04, 2022 10:49:58 AM org.hibernate.Version logVersion
INFO: HHH0000412: Hibernate Core (5.4.9.Final)
Sep 04, 2022 10:49:58 AM org.hibernate.annotations.common.reflection.java.
INFO: HCANN000001: Hibernate Commons Annotations (5.1.0.Final)
Sep 04, 2022 10:49:59 AM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQL5Dialect
Sep 04, 2022 10:49:59 AM org.hibernate.engine.transaction.jta.platform.int
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.t
Hibernate: select student0_.student_id as student_1_0_0_, student0_.stud
Hibernate: update student_table set student_backlogs=?, student_cgpa=?, st
Student Record updated successfully

#FSDS01Workspace - SpringHibernateTemplateCRUDOperations/src/main/java/com/kief/jfsd/test/ClientController.java - Eclipse IDE

MySQL 8.0 Command Line Client

```
mysql> select * from student_table;
```

| student_id | student_backlogs | student_cgpa | student_contactno | student_department | student_dob | student_emailid |
|------------|------------------|--------------|-------------------|--------------------|-------------|--------------------|
| 1 | 0 | 9.26 | 8790426184 | CSE | 09/06/2002 | suprith@gmail.com |
| 2 | 0 | 9.26 | 7735980640 | CSE | 09/02/2003 | phalguni@gmail.com |
| 3 | 0 | 9.45 | 8977295499 | ECE | 09/10/2002 | srinivas@gmail.com |
| 4 | 0 | 8.9 | 7474568923 | CSE | 05/07/2002 | madhu@gmail.com |

4 rows in set (0.01 sec)

```
mysql> select * from student_table;
```

| student_id | student_backlogs | student_cgpa | student_contactno | student_department | student_dob | student_emailid |
|------------|------------------|--------------|-------------------|--------------------|-------------|--------------------|
| 1 | 0 | 9.2 | 8790426184 | CSE | 09/06/2002 | suprith@gmail.com |
| 2 | 0 | 9.26 | 7735980640 | CSE | 09/02/2003 | phalguni@gmail.com |
| 3 | 0 | 9.45 | 8977295499 | ECE | 09/10/2002 | srinivas@gmail.com |
| 4 | 0 | 8.9 | 7474568923 | CSE | 05/07/2002 | madhu@gmail.com |

4 rows in set (0.00 sec)

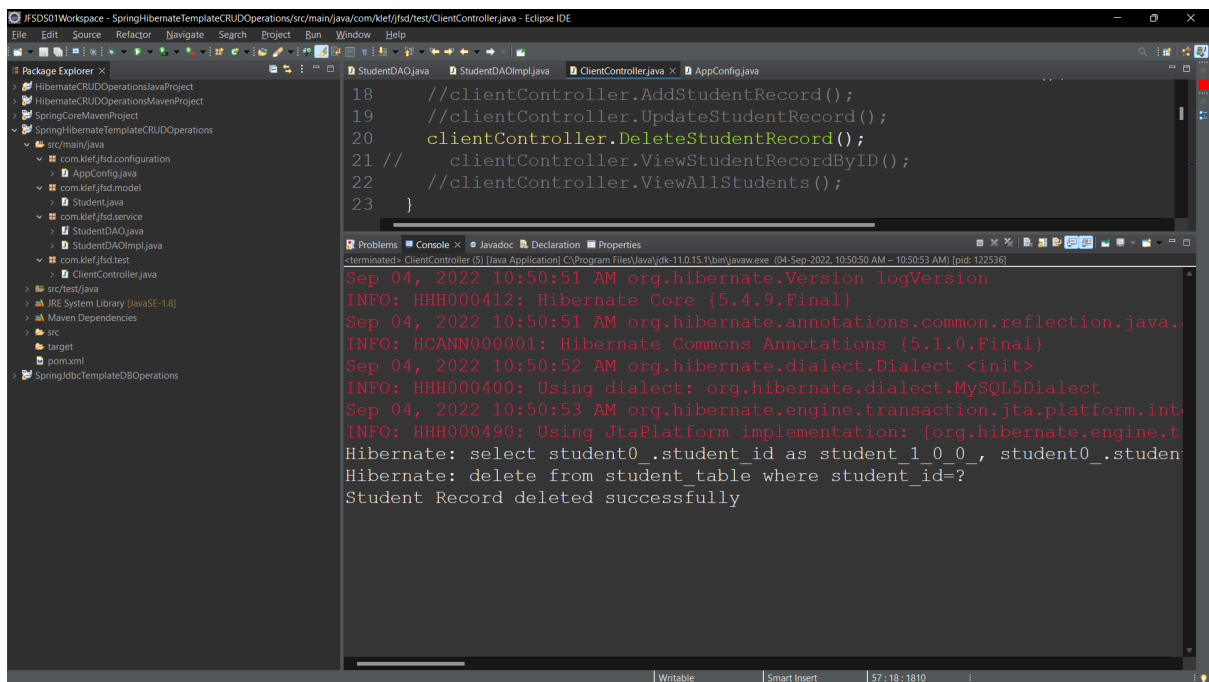
```
mysql>
```

Problems Console Javadoc Declaration Properties

<terminated> ClientController (5) [Java Application] C:\Program Files\Java\jdk-11.0.15\bin\java.exe (04-Sep-2022, 10:49:57 AM - 10:50:00 AM) [pid: 22876]

Sep 04, 2022 10:49:58 AM org.hibernate.Version logVersion
INFO: HHH0000412: Hibernate Core (5.4.9.Final)
Sep 04, 2022 10:49:58 AM org.hibernate.annotations.common.reflection.java.
INFO: HCANN000001: Hibernate Commons Annotations (5.1.0.Final)
Sep 04, 2022 10:49:59 AM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQL5Dialect
Sep 04, 2022 10:49:59 AM org.hibernate.engine.transaction.jta.platform.int
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.t
Hibernate: select student0_.student_id as student_1_0_0_, student0_.stud
Hibernate: update student_table set student_backlogs=?, student_cgpa=?, st
Student Record updated successfully

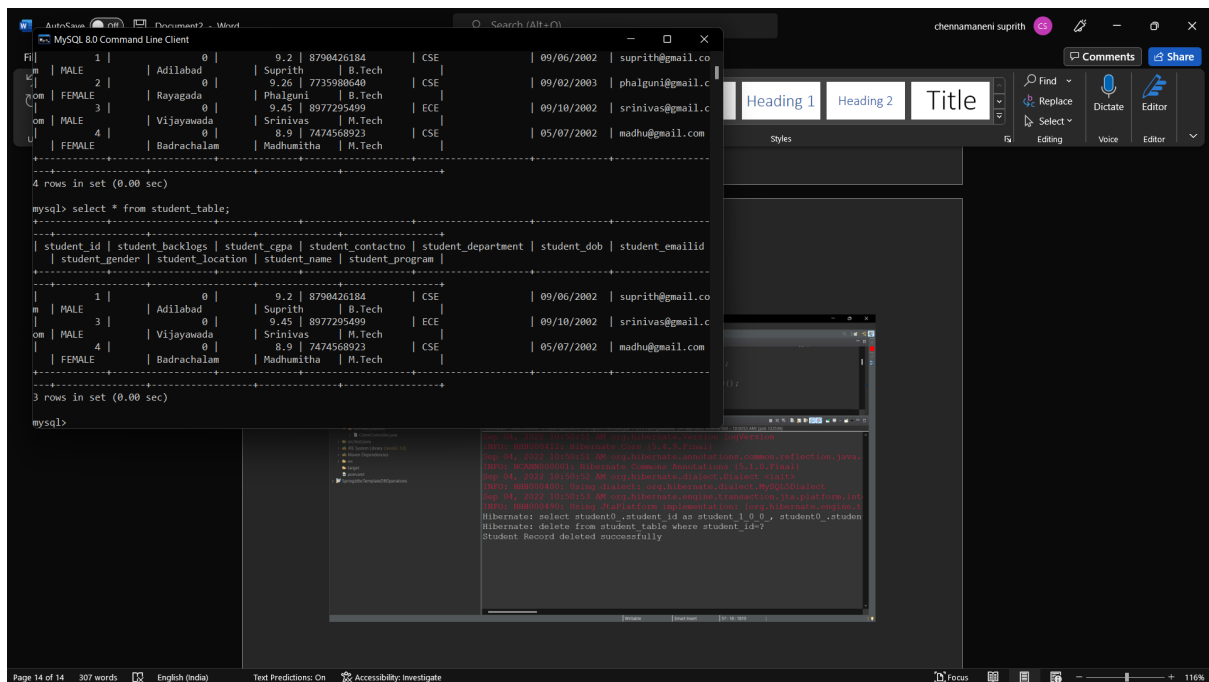
DeleteOperation:



The screenshot shows the Eclipse IDE with the `ClientController.java` file open. The code includes methods for adding, updating, deleting, and viewing student records. The console output shows the application running successfully, with Hibernate logs indicating the deletion of a student record.

```
18 //clientController.AddStudentRecord();
19 //clientController.UpdateStudentRecord();
20 clientController.DeleteStudentRecord();
21 // clientController.ViewStudentRecordById();
22 //clientController.ViewAllStudents();
23 }
```

```
Sep 04, 2022 10:50:51 AM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate Core (5.4.9.Final)
Sep 04, 2022 10:50:51 AM org.hibernate.annotations.common.reflection.java.
INFO: HCANN000001: Hibernate Commons Annotations (5.1.0.Final)
Sep 04, 2022 10:50:52 AM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQL5Dialect
Sep 04, 2022 10:50:53 AM org.hibernate.engine.transaction.jta.platform.int
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.t
Hibernate: select student0_.student_id as student_1_0_0_, student0_.studen
Hibernate: delete from student_table where student_id=?
Student Record deleted successfully
```



The screenshot shows the MySQL 8.0 Command Line Client with the `student` table data. The table has columns for `student_id`, `student_backlogs`, `student_cgpa`, `student_contactno`, `student_department`, `student_dob`, `student_emailid`, `student_gender`, `student_location`, `student_name`, and `student_program`. The data is as follows:

| student_id | student_backlogs | student_cgpa | student_contactno | student_department | student_dob | student_emailid | student_gender | student_location | student_name | student_program |
|------------|------------------|--------------|-------------------|--------------------|-------------|------------------|----------------|------------------|--------------|-----------------|
| 1 | 0 | 9.2 | 8790426184 | CSE | 09/06/2002 | suprith@gmail.co | MALE | Adilabad | Suprith | B.Tech |
| 2 | 0 | 9.26 | 7735980640 | CSE | 09/02/2003 | phalguni@gmail.c | FEMALE | Rayagada | Phalguni | B.Tech |
| 3 | 0 | 9.45 | 8977285499 | ECE | 09/10/2002 | srinivas@gmail.c | MALE | Vijayawada | Srinivas | M.Tech |
| 4 | 0 | 8.9 | 7474568923 | CSE | 05/07/2002 | madhu@gmail.com | FEMALE | Badrachalam | Madhumitha | M.Tech |

The console output shows the application running successfully, with Hibernate logs indicating the deletion of a student record.

```
Sep 04, 2022 10:50:51 AM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate Core (5.4.9.Final)
Sep 04, 2022 10:50:51 AM org.hibernate.annotations.common.reflection.java.
INFO: HCANN000001: Hibernate Commons Annotations (5.1.0.Final)
Sep 04, 2022 10:50:52 AM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQL5Dialect
Sep 04, 2022 10:50:53 AM org.hibernate.engine.transaction.jta.platform.int
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.t
Hibernate: select student0_.student_id as student_1_0_0_, student0_.studen
Hibernate: delete from student_table where student_id=?
Student Record deleted successfully
```