Date:14-08-2022

COURSE ID: 20TS3103AA

COURSE NAME: JAVA FULL STACK DEVELOPMENT + MICROSERVICES LAB:03

ID:2000030185

NAME: SUPRITH CH

QUESTION:

Perform the following tasks by taking reference from Lab 2 with Hibernate Query Language (HQL) and Hibernate Criteria Query Language (HCQL).

- 1. HQL query to display all student records with all columns.
- 2. HQL query to display all student records with specific columns.
- 3. HQL query to display only names of all students whose CGPA is greater than 7.
- 4. HQL query to delete a Student whose Student ID is 30101 using input parameter (?) as well as named parameter (:)
- 5. HQL query to update few details of a student whose Student ID is 30102 using input parameter (?) as well as named parameter (:)
- 6. HQL query to perform aggregate functions like count (*), sum(), avg(), min(), max() functions on CGPA column.
- 7. HCQL query to display specific columns from set of student records.
- 8. HCQL query to get 5th to 10th records.
- 9. HCQL query to apply greater than, less than, greater than equal to, less than equal to, equal to and not equal to on CGPA column.
- 10. HCQL query to get the records in ascending as well as descending order based on Student Name.

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Hibernate CRUDO perations Maven Project

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// src/main/java

    > Faculty.java
      > 🔝 HCQLDemo.java
      > A HQLDemo.java
    > # inheritancemapping
  > # src/test/java
  in hibernate.cfg.xml
  ⇒ Mark System Library [JavaSE-1.8]
  > Maven Dependencies
  > 🗁 src
    target
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Hibernate.cfg.xml

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                                                                                               6-<hibernate-configuration>
                                                                                                          <session-factory>
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                                                                                                                                cproperty name="connection.password">0906</property>
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                                                                                                                                 property name="hbm2ddl.auto">create/property>
                                                                                                                                 property name="show_sql">true
                                                                                             16
                                                                                                                                <mapping class="com.klef.jfsd.Faculty"/>
<mapping class="inheritancemapping.Person" />
<mapping class="inheritancemapping.Teacher" />
<mapping class="inheritancemapping.Student" />
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Faculty.java

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⊕ % | ₽ | = □ © Studentjava
                                                                                                         1 package com.klef.jfsd;
                                                                                                                                                                                                                                                                        *******
                                                                         3*import javax.persistence.Column;
           # HQLDemojava
                                                                        8 @Entity
                                                                        9 @Table (name="faculty table")
      # src/test/java
                                                                      10 public class Faculty
                                                                      11 {
         ii: hiloemate.ofg.xml
IRE System Library (I
                                                                      12-
                                                                               @Id
                                                                      13 @Column(name="faculty_id")
                                                                      private int id;
15 @Column(name="faculty_name",length = 200,nullable = false)
                                                                      private String name;

Column(name="faculty_gender",nullable = false)

private String gender;

Column(name="faculty_dob",nullable = false)
                                                                      private String dob;
20 @Column(name="faculty_qualification",nullable = false)
                                                                      private String qualification;
22 private String qualification;
23 @Column(name="faculty_college",nullable = false,length=200)
                                                                      24 private String college;
25* @Column(name="faculty_co
                                                                                 @Column(name="faculty_department", nullable = false, length = 200)
                                                                      26 private String department;
27 @Column(name="faculty design
                                                                                  @Column(name="faculty designation", nullable = false, length = 200)
                                                                      private String designation;
29- @Column(name="faculty_salary",nullable = false)
                                                                                                                                         Writable Smart Insert 1:1:0
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                                                                      private double salary;
31* @Column(name="faculty_username",nullable = false,unique = true,length =
                                                                      private String username;

32 private String username;

33 @Column(name="faculty password", nullable = false, length = 200)

34 private String password;
            In Faculty Jave

If Faculty CRUDO perations java
            35-public int getId() {
                                                                      36
                                                                                  return id;
                                                                       37 }
                                                                      38-public void setId(int id) {
                                                                                      this.id = id;
                                                                      40 1
                                                                      41 public String getName() {
                                                                      42
                                                                                      return name;
                                                                      43 1
                                                                      44 public void setName(String name) {
                                                                                      this.name = name;
                                                                      45
                                                                      46 }
                                                                      47*public String getGender() (
                                                                      48
                                                                                      return gender;
                                                                       50 public void setGender (String gender) {
                                                                                       this.gender = gender;
                                                                      53*public String getDob() {
                                                                                     return dob;
                                                                       55 )
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                                                             59-public String getQualification() {
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                                                                                                     61 }
                                                                                                      62 public void setQualification(String qualification) {
                # HCQLDemojava
# HQLDemojava
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                                                                                                                            this.qualification - qualification;
                                                                                                     64 1
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                                                                                                     65 public String getCollege() {
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target
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                                                                                                     66
                                                                                                                           return college;
                                                                                                     67 }
                                                                                                     68*public void setCollege(String college) {
                                                                                                      69
                                                                                                                             this.college = college;
                                                                                                       70 }
                                                                                                       71-public String getDepartment() (
                                                                                                                             return department;
                                                                                                       74-public void setDepartment(String department) {
                                                                                                                             this.department = department;
                                                                                                       77 public String getDesignation() {
                                                                                                       78
                                                                                                                            return designation;
                                                                                                       79 1
                                                                                                      80 public void setDesignation(String designation) {
                                                                                                      81
                                                                                                                             this.designation = designation;
                                                                                                      82 }
                                                                                                      83*public double getSalary() {
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HCQLDemojava

HQLDemojava
                                                                                                     86-public void setSalary(double salary) {
                                                                                                     87
                                                                                                                            this.salary = salary;
                                                                                                     88 }
                                                                                                     89*public String getUsername() (
                                                                                                     90
                                                                                                                        return username;
                                                                                                     97 1
                                                                                                      92 public void setUsername(String username) {
                                                                                                     93
                                                                                                                             this.username = username;
                                                                                                      94 1
                                                                                                      95°public String getPassword() {
                                                                                                                            return password;
                                                                                                      96
                                                                                                      97 }
                                                                                                      98 public void setPassword(String password) {
                                                                                                                             this.password - password;
                                                                                                   100 }
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HQLDemo.java

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                                                                                                    1 package com.klef.jfsd;
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                                                                                                     3*import java.util.List;□
                                                                                                     7 //import org.hibernate.Query;
                                                                                                   8 //import org.hibernate.Criteria;
                                                                                                    9 public class HQLDemo
       src/test/java
                                                                                                 10 {
      sic main resources
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                                                                                                 11:
                                                                                                                        public static void main(String[] args)
                                                                                                 13
                                                                                                                                      HQLDemo demo=new HQLDemo();
                                                                                                 14
                                                                                                                                       //demo.viewallfaculty();
                                                                                                 15
                                                                                                                                       //demo.viewallFacultyPartialObject();
                                                                                                 16
                                                                                                                                       //demo.AggregateFunctions();
                                                                                                                                       //demo.updatedeletepositionalparamater();
                                                                                                                                       //demo.updatedeletenamedparameters();
                                                                                                                                       //demo.selectpositionalparameters();
                                                                                                 19
                                                                                                                                      demo.selectnamedparameters();
                                                                                                                        public void viewallfaculty() //complete entity or object
                                                                                                                                      Configuration configuration=new Configuration();
                                                                                                                                      configuration.configure("hibernate.cfg.xml");
                                                                                                                                      SessionFactory sessionFactory=configuration.buildSessionFactory()
                                                                                                                                      Session session=sessionFactory.openSession();
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//demo.AggregateFunctions();
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                                                                                                                                      //demo.updatedeletenamedparameters();
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                                                                                                                                      demo.selectnamedparameters();

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                                                                                                                                      configuration.configure("hibernate.cfg.xml");
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                                                                                                                                      SessionFactory sessionFactory=configuration.buildSessionFactory()
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                                                                                                                                      Session session=sessionFactory.openSession();
                                                                                                 30
                                                                                                                                      Query qry=session.createQuery("from Faculty");
                                                                                                                                       @SuppressWarnings("unchecked")
                                                                                                                                      List<Faculty> facultylist=(List<Faculty>)qry.getResultList();
                                                                                                 34
                                                                                                                                      for (Faculty faculty: facultylist)
                                                                                                 36
                                                                                                                                                    System.out.println(faculty.toString());
                                                                                                                                      session.close();
                                                                                                                                      sessionFactory.close();
                                                                                                 40
                                                                                                                        public void viewallFacultvPartialObject() //partial entity or object
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                         System.out.println(faculty.toString());
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                                                         session.close();
                                                         sessionFactory.close();
      # HCQLDemojava
HQLDemojava
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                                                  public void viewallFacultyPartialObject() //partial entity or object
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                                                         Configuration configuration=new Configuration():
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                                                         configuration.configure("hibernate.cfg.xml");
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                                                         SessionFactory sessionFactory=configuration.buildSessionFactory()
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                                         48
                                                         Session session=sessionFactory.openSession();
                                         49
                                                         Query qry=session.createQuery("select f.id,f.name,f.designation,f
                                                         List<Object[]> facultylist=qry.getResultList();
                                                         System.out.println("Total Records="+facultylist.size());
                                         53
                                                         for(Object[] obj:facultylist)
                                         54
                                                              System.out.println("Faculty ID: "+obj[0]);
System.out.println("Faculty Name: "+obj[1]);
System.out.println("Faculty Designation: "+obj[2]);
System.out.println("Faculty Salary: "+obj[3]);
System.out.println("Faculty Username: "+obj[4]);
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                                                             65=
                                                   public void AggregateFunctions()
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                                                         Configuration configuration=new Configuration();
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                                                         configuration.configure("hibernate.cfg.xml");
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                                                         SessionFactory sessionFactory=configuration.buildSessionFactory()
                                         71
                                                         Session session=sessionFactory.openSession();
                                                         Query qry1=session.createQuery("select count(*) from Faculty");
                                                         List list1=qry1.list();
System.out.println("****count(*)****");
                                         75
                                         76
                                                         System.out.println("Total records count= "+list1.get(0));
                                                         Query qry2=session.createQuery("select min(salary) from Faculty")
                                                         List list2=qry2.list();
System.out.println("****min(salary)****");
                                         80
                                                         System.out.println("Minimum Salary among all faculties= "+list2.c
Query qry3-session.createQuery("select max(salary) from Faculty")
                                         81
                                       a 82
                                                         List list3=qry3.list();
System.out.println("****max(salary)****");
                                       83
                                                         System.out.println("Maximum Salary among all faculties= "+list3.c
Query qry4-session.createQuery("select sum(salary) from Faculty")
                                         86
                                                         List list4=qry4.list();
System.out.println("****sum(salary)****");
                                         87
                                         88
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                                                         System.out.println("sum of Salary of all faculties- "+list4.get((
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                                                                                public void updatedeletepositionalparamater()
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           # HCQLDemojava
HQLDemojava
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     # src/test/java
                                                                                          SessionFactory sessionFactory=configuration.buildSessionFactory()
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                                                                                          Session session-sessionFactory.openSession();
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                                                               108
                                                                                          Transaction transaction=session.beginTransaction();
                                                              109
                                                             *110
                                                                                          Query qry1=session.createQuery("update Faculty set name=?1, salary
                                                                                          qry1.setString(1, "Hari Kiran Vege");
qry1.setDouble(2, 67000.50);
                                                             4111
                                                             a112
                                                             4113
                                                                                          qry1.setInteger(3, 101);
                                                              114
                                                                                          int count1=qry1.executeUpdate();
                                                                                          System.out.println(countl +" records updated successfully");
                                                                                          Query qry2 = session.createQuery("delete from Faculty where id=?1
                                                             4117
                                                                                            qry2.setInteger(1, 105);
                                                             4118
                                                                                            int count2 = qry2.executeUpdate();
System.out.println(count2+" Records(s) Deleted Successfully");
                                                              119
                                                               120
                                                               121
                                                               123
                                                                                            transaction.commit();
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                                                                            # hibernate.cfg_ # Studenthbrown| # StudentCRUDOp.
transaction.commit();
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                                                                                          session.close();
                                                                                          sessionFactory.close();
           III Faculty java

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                                                                                public void updatedeletenamedparameters()
           # HCQLDemojava
HQLDemojava

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                                                                                            Configuration configuration=new Configuration():
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                                                                                              configuration.configure("hibernate.cfg.xml");
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                                                                                              SessionFactory sessionFactory=configuration.buildSessionFactory
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                                                                                              Session session=sessionFactory.openSession();
                                                               135
                                                               136
                                                                                              Transaction transaction=session.beginTransaction();
                                                               137
                                                             4138
                                                                                              Query qryl=session.createQuery("update Faculty set salary=:v1,
                                                                                              qry1.setParameter("v1",86000.00);
qry1.setParameter("v2","EX183 RedHat");
qry1.setParameter("v3", 101);
                                                             ·139
                                                             ·140
                                                             9141
                                                                                              int countl=qryl.executeUpdate();
                                                                                              System.out.println(count1 +" records updated successfully");
                                                              143
                                                                                              Query qry2=session.createQuery("delete from Faculty where id=:1
                                                             4144
                                                                                              qry2.setParameter("v1", 104);
                                                             a145
                                                                                              int count2 = qry2.executeOpdate();
System.out.println(count2+" Records(s) Deleted Successfully");
                                                              146
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                                                                                               transaction.commit();
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                                                                                                          public void selectpositionalparameters()
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                                                                                                                              Configuration configuration-new Configuration();
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       # src/test/java
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                                                                                                                              SessionFactory sessionFactory=configuration.buildSessionFactory
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ii IRE System Library ()
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                                                                                                                              Session session = sessionFactory.openSession();
                                                                                   162
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                                                                                                                              Query qryl=session.createQuery("from Faculty where id=?1");
                                                                                 ·164
                                                                                                                              qry1.setInteger(1, 101);
                                                                                 $165
                                                                                                                              List<Faculty> facultylist=qryl.getResultList();
                                                                                                                              System.out.println("Total Records = " +facultylist.size());
                                                                                   166
                                                                                                                              for(Faculty faculty:facultylist)
                                                                                    167
                                                                                                                                         System.out.println(faculty.toString());
                                                                                   169
                                                                                   170
                                                                                 a171
                                                                                                                             Query qry2=session.createQuery("from Faculty where username=?1
                                                                                                                             qry2.setString(1, "surya4");
qry2.setString(2, "nopeac");
List<Faculty> flist-qry2.getResultList();
                                                                                 172
                                                                                  4173
                                                                                  174
                                                                                    175
                                                                                                                              System.out.println("Total Records = " +flist.size());
                                                                                    176
                                                                                                                              if(flist.size()==1)
                                                                                    177
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                                                                                                                                          System.out.println("Faculty Record Found");
                                                                                                                                                                              Writable Smart Insert 1:1:0
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                                                                                                          public void selectnamedparameters()
              III Faculty.java
III Faculty.CRUDOperations.java
                                                                                    189
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                                                                                                                              Configuration configuration=new Configuration();
              # HCQLDemojava
HQLDemojava
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                                                                                                                              configuration.configure("hibernate.cfg.xml");

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                                                                                                                              SessionFactory sessionFactory=configuration.buildSessionFactory
                                                                                                                             Session session = sessionFactory.openSession();
                                                                                   195
                                                                                                                              Query qryl=session.createQuery("from Faculty where id=:v");
                                                                                 ·196
                                                                                                                             qryl.setParameter("v", 101);
List<Faculty> facultylist=qryl.getResultList();
                                                                                 197
                                                                                 198
                                                                                   199
                                                                                                                              System.out.println("Total Records = "
                                                                                                                                                                                                                                               +facultylist.size());
                                                                                   200
                                                                                                                              for (Faculty faculty: facultylist)
                                                                                   201
                                                                                                                                          System.out.println(faculty);
                                                                                 ·204
                                                                                                                              Query qry2=session.createQuery("from Faculty where username=:v1
                                                                                                                             qry2.setParameter("v1", "surya4");
qry2.setParameter("v2", "nopeac");
                                                                                 205
                                                                                 2206
                                                                                                                             ListsFaculty> flist=qry2.getResultList();
System.out.println("Total Records = " +flist.size());
                                                                                 3207
                                                                                   208
                                                                                                                             if(flist.size()==1)
                                                                                                                                          System.out.println("Faculty Record Found");
                                                                                                                                          System.out.println(flist.get(0));
```

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                                                                                                                                                                               for (Faculty faculty: facultylist)
                    # HCQLDemojava
HQLDemojava
                                                                                                                  202
                                                                                                                                                                                               System.out.println(faculty);
          # src/test/java
               ii: hiloemate.ofg.xml
IRE System Library (I
                                                                                                                 ·204
                                                                                                                                                                              Query qry2=session.createQuery("from Faculty where username=:v1
                                                                                                                                                                             qry2.setParameter("v1", "surya4");
qry2.setParameter("v2", "nopeac");
List<Faculty> flist=qry2.getResultList();
System.out.println("Total Records = " +flist.size());
                                                                                                                 205
                                                                                                                 206
                                                                                                                 2207
                                                                                                                   209
                                                                                                                                                                             if(flist.size()==1)
                                                                                                                                                                               1
                                                                                                                                                                                               System.out.println("Faculty Record Found");
                                                                                                                                                                                               System.out.println(flist.get(0));
                                                                                                                    214
                                                                                                                                                                             else
                                                                                                                                                                               1
                                                                                                                    216
                                                                                                                                                                                               System.out.println("Faculty Record Not Found");
                                                                                                                    218
                                                                                                                                                                              session.close();
                                                                                                                                                                              sessionFactory.close();
                                                                                                                    220
                                                                                                                                                   }
                                                                                                                    221 }
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                                                                        1 package com.klef.jfsd;
                                                                                                                        3.import java.util.List;□
                    III Faculty java

III Faculty CRUDO perations java
                                                                                                                           7 //import org.hibernate.Query;
8 //import org.hibernate.Criteria;
                    # HCQLDemojava
HQLDemojava

    Michellancespirg
    schest/java
    sche
                                                                                                                             9 public class HOLDemo
                                                                                                                  © Problems = Javadoc (i), Declaration □ Console × □ Properties
-terminates - HQLDemo (Java Application) CNProgram Files/Java/pok-11.0.14/pim/javaw.exe (14-Aug-2022, 12.20.25 PM - 12.20.28 PM) [pid: 19320]
                                                                                                                                                                                                                                                                                                                                                                              ■ 異義 当日 # F F F O + D + D + D 0
                                                                                                                 INFO: HHH10001003: Autocommit mode: false
Aug 14, 2022 12:20:27 PM org.hibernate.engine.jdbc.connections.internal.Driver
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
                                                                                                                  Aug 14, 2022 12:20:27 PM org.hibernate.dialect.Dialect <init>
                                                                                                                 INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQL5Dialect
Aug 14, 2022 12:20:28 PM org.hibernate.resource.transaction.backend.jdbc.inter
                                                                                                                  INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernat
                                                                                                                  Hibernate: alter table student table add constraint FKrq0k3q93bnumyakrikequqqu
                                                                                                                  Hibernate: alter table teacher table add constraint FKjruefu8nph03b9yjjctxsqrc
                                                                                                                  Aug 14, 2022 12:20:28 PM org.hibernate.engine.transaction.jta.platform.interna
                                                                                                                  INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.trans
                                                                                                                  Hibernate: select faculty0_.faculty_id as faculty1_0_, faculty0_.faculty_col
                                                                                                                  Faculty [id-101, name-Satish, gender-MALE, dob-10/08/1992, qualification-B.Tec
                                                                                                                  Faculty [id=102, name=Surya, gender=MALE, dob=10/11/1993, qualification=M.Tech
                                                                                                                  Faculty [id=103, name=Ramya, gender=FEMALE, dob=15/02/1990, qualification=M.Te
                                                                                                                  Aug 14, 2022 12:20:28 PM org.hibernate.engine.jdbc.connections.internal.Driver
                                                                                                                  INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/jf
```

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