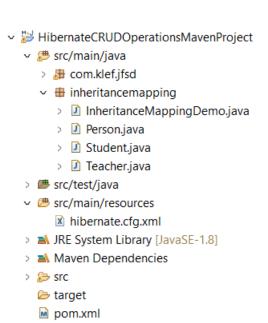
Date:14-08-2022

COURSE ID: 20TS3103AA

COURSE NAME: JAVA FULL STACK DEVELOPMENT + MICROSERVICES LAB:04

ID:2000030185

NAME: SUPRITH CH



Hibernate.cfg.xml:

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The List 
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    1 <?xml version="1.0" encoding="UTF-8"?>
                                                                                                                            3 <! DOCTYPE hibernate-configuration PUBLIC
                                                                                                                                                      "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
                                                                                                                                                   "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
                                                                                                                           5
                                                                                                                           6*<hibernate-configuration>
                                                                                                                                                   <session-factory>
                                                                                                                                                                    sston-lactory>

property name="connection.driver_class">com.mysql.cj.jdbc.Driver

froperty name="connection.url">jdbc:mysql://localhost:3306/mappir

property name="connection.user">root
property name="connection.password">0906
/property>
                                                                                                                        10
                                                                                                                                                                   15
                                                                                                                                                                       property name="show_sql">true
                                                                                                                                                                     <mapping class="com.klef.jfsd.Faculty"/>
<mapping class="inheritancemapping.Person" />
<mapping class="inheritancemapping.Teacher" />
<mapping class="inheritancemapping.Student" />
                                                                                                                        18
                                                                                                                        19
                                                                                                                                                    </session-factory>
                                                                                                                        23 </hibernate-configuration>
                                                                                                                      Ti Design iii Source
```

Person.java

```
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② Faculty; Java ② Faculty: CRUD. ② HCQLDemojava ② HQLDemojava ③ Interitance. ☑ Person, java × **

                 BB| P| = 0 2h
                             1 package inheritancemapping;
                             3 import javax.persistence.*;
                             5 @Entity
                             6 @Table(name="person table")
                             7 //@Inheritance(strategy = InheritanceType.SINGLE TABLE)
                             8 //@DiscriminatorColumn(name = "type",discriminatorType = DiscriminatorType 9 //@DiscriminatorValue(value = "person")
                            10
                            11 //@Inheritance(strategy = InheritanceType.TABLE_PER_CLASS)
                            12 @Inheritance(strategy = InheritanceType. JOINED)
                            13 public class Person
                            14 (
                                   //@GeneratedValue(strategy = GenerationType.IDENTITY)
                            16
                                   //@GeneratedValue(strategy = GenerationType.AUTO)
                            18
                                   @GeneratedValue
                            19
                                   private int id;
                                   private String name;
                                   private String gender;
                                   public int getId() {
                                       return id;
                            24
                                   public void setId(int id) {
                            26
                                       this.id = id;
#FSDS01Workspace - HibernateCRUDOperationsMavenProject/src/main/java/inheritancemapping/Person.java - Eclipse IDE
//@GeneratedValue(strategy = GenerationType.IDENTITY)
                                   //@GeneratedValue(strategy = GenerationType.AUTO)
    II InheritanceMap
                            19
                                   private int id;
                            20
                                   private String name;
                                   private String gender;
                                   public int getId() {
                            23
                                       return id;
                            24
                                   public void setId(int id) {
                            26
27
                                       this.id = id;
                                   public String getName() {
                            29
                                       return name;
                                   public void setName(String name) {
                                       this.name = name;
                             34=
                                   public String getGender() {
                                       return gender;
                             36
                                   public void setGender(String gender) {
                            38
                                       this.gender = gender;
                            40 }
                            41
```

```
- 0
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                  state 1 = 5 1 StudentCRUD.
                                                 III faculty.java III faculty.CRUD... III HCQLDenio.java III HQLDenio.java III thteritance... III Person.java III Student.java × 🤊
                                1 package inheritancemapping;
                               2 import javax.persistence.*;
                               4 @Entity
                               5 @Table(name="student table")
                                6 //@DiscriminatorValue(value = "student")
                                7 public class Student extends Person
                                8 (
                                9
                                      private String program;
                               10
                                      private double cgpa;
                                      private int backlogs;
                                      public String getProgram() {
                               13
                                          return program;
                               1.4
                                     public void setProgram(String program) {
                               16
                                           this.program = program;
                                     public double getCgpa() {
                               19
                                          return cgpa;
                                     public void setCgpa(double cgpa) {
                                           this.cgpa = cgpa;
                               24=
                                     public int getBacklogs() {
                                          return backlogs;
                               26
                                                                                       1:1:0
```

```
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                  E Si 🖟 I = 🗢 🖟 StudemORUD. . It hibernatect. . . () Facuty java . () Facuty CRUD. . . . () HOLDemo java . () HOLDemo java . () Finentiance. . () Facuty java . () Student java . ()
                                6 //@DiscriminatorValue(value = "student")
                                 7 public class Student extends Person
                                9
                                       private String program;
                               1.0
                                       private double cgpa;
                                       private int backlogs;
                                      public String getProgram() {
                               13
                                           return program;
                               14
                                      public void setProgram(String program) {
                               16
                                            this.program = program;
                               18-
                                      public double getCgpa() {
                               19
                                            return cgpa;
                                      public void setCgpa(double cgpa) {
                                            this.cgpa = cgpa;
                               23
                               24=
                                      public int getBacklogs() {
                               25
                                           return backlogs;
                               26
                                       public void setBacklogs(int backlogs) {
                               28
                                            this.backlogs = backlogs;
                               29.
                               30 }
                                                                                         1:1:0
```

Teacher.java

```
0
Tile Edit Source Refactor Navigate Search Project Bun Window Beip
              2 import javax.persistence.*;
                        4 @Entity
                        5 @Table (name="teacher table")
                        6 //@DiscriminatorValue(value = "teacher")
                        7 public class Teacher extends Person
                             private String qualification;
                       10
                             private double salary;
                             private String course;
                             public String getQualification() {
                       13
                                return qualification;
                       14
                            public void setQualification(String qualification) {
                       16
                                 this.qualification = qualification;
                       18
                             public String getCourse() (
                       19*
                                return course;
                            public void setCourse (String course) {
                       23
                                 this.course = course;
                       24
                             public double getSalary() (
                       26
                                return salary;
Teacher t=new Teacher();
24
                                t.setName("J Surya Kiran");
                                t.setGender("MALE");
                                t.setQualification("M.Tech.");
                                t.setSalary(34000.00);
                                t.setCourse("JFSD");
                                Student s=new Student();
                                s.setName("KLU");
                                s.setGender("FEMALE");
                                s.setProgram("Ph.D.");
                       34
                                s.setCgpa(7.50);
                                s.setBacklogs(5);
                                session.save(p);
                                session.save(s);
                       39
                                 session.save(t);
                       40
                       41
                                 System.out.println("Success....!!!");
                       42
                                 transaction.commit();
                       44
                                 session.close();
                                 sessionFactory.close();
                                                          Smart Insert 6: 14 (23)
```

InheritanceMappingDemo.java

```
0
File Edit Source Refactor Manigate Search Poject Bur Window Help
                                                                     BB|V| = 0 3N
                                                                                                                                            1 package inheritancemapping;
                                                                                                                      3*import org.hibernate.*;
                                                                                                                      6 public class InheritanceMappingDemo
                                                                                                                     8=
                                                                                                                                             public static void main (String[] args)
                                                                                                                     9
                                                                                                                10
                                                                                                                                                              Configuration configuration=new Configuration();
                                                                                                                                                              configuration.configure("hibernate.cfg.xml");
                                                                                                                                                              SessionFactory sessionFactory configuration.buildSessionFactory();
                                                                                                                  14
                                                                                                                                                              Session session=sessionFactory.openSession();
                                                                                                                                                             Transaction transaction=session.beginTransaction();
                                                                                                                                                              Person p=new Person();
                                                                                                                                                             p.setName("Narendra Modi");
                                                                                                                                                              p.setGender("MALE");
                                                                                                                                                              Teacher t-new Teacher();
                                                                                                                                                              t.setName("J Surya Kiran");
                                                                                                                                                              t.setGender("MALE");
                                                                                                                                                              t.setQualification("M.Tech.");
                                                                                                                                                              t.setSalary(34000.00);
                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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| Fig. | Bit | South | So
    Teacher t=new Teacher();
       src/main/java
                                                                                                                 24
                                                                                                                                                              t.setName("J Surya Kiran");

    Comidef, Ind
    C
                                                                                                                                                              t.setGender("MALE");
                                                                                                                25
                                                                                                                 26
                                                                                                                                                             t.setQualification("M.Tech.");
                                                                                                                                                             t.setSalary(34000.00);
                                                                                                                                                            t.setCourse("JFSD");
                                                                                                                                                             Student s=new Student();
                                                                                                                                                            s.setName("KLU");
                                                                                                                                                             s.setGender("FEMALE");
                                                                                                                                                             s.setProgram("Ph.D.");
                                                                                                                  34
                                                                                                                                                             s.setCgpa(7.50);
                                                                                                                                                             s.setBacklogs(5);
                                                                                                                   36
                                                                                                                                                              session.save(p);
                                                                                                                                                              session.save(s);
                                                                                                                   39
                                                                                                                                                              session.save(t);
                                                                                                                  40
                                                                                                                  41
                                                                                                                                                              System.out.println("Success....!!!");
```

transaction.commit();

sessionFactory.close();

Smart Insert

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session.close();

42 43

44

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Join Operation output:

```
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                                                                                                                                                                                 te.ct. | | Faculty java | | Faculty CRUD. | | HCQLDemojava | | HQLDemojava | | Inheritance... × | | Personjava | | Studentjava | | Teacher java | "A
                                                                                                                                                                  1 package inheritancemapping;
                        inberitancemapping

(i) InberitanceMappingCemo jase
(i) Person java
(i) Student java
(ii) Teacher java
chestion
                                                                                                                                                                 3*import org.hibernate.*;
                                                                                                                                                                 6 public class InheritanceMappingDemo

iii Teacher Java
iii strchest/java
iii strchest
                                                                                                                                                                                                public static void main (String[] args)
                                                                                                                                                        © Problems # Javadoc © Declaration © Cornole × III Properties

-terminated - InheritanceMappingDemo (Java Application) CVProgram Files/Java/gds-11.0.14).ben/Javaw.exe (14-Aug-2022, 12:37:58 PM - 12:38:01 PM) (pid: 1880)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Aug 14, 2022 12:38:00 PM org.hibernate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.jta.platform.internate.engine.transaction.engine.transaction.engine.transaction.engine.transaction
                                                                                                                                                        INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.trans
                                                                                                                                                        Hibernate: select next_val as id_val from hibernate_sequence for update Hibernate: update hibernate_sequence set next_val=? where next_val=?
                                                                                                                                                       Hibernate: select next val as id val from hibernate sequence for update Hibernate: update hibernate sequence set next val=? Where next val=? Hibernate: select next val as id val from hibernate sequence for update Hibernate: update hibernate sequence set next val=? Where next val=?
                                                                                                                                                        Success...!!!
                                                                                                                                                        Hibernate: insert into person_table (gender, name, id) values (?, ?, ?)
                                                                                                                                                        Hibernate: insert into person_table (gender, name, id) values (?, ?, ?)
Hibernate: insert into student_table (backlogs, cgpa, program, id) values (?,
                                                                                                                                                        Hibernate: insert into person table (gender, name, id) values (?, ?, ?)
Hibernate: insert into teacher_table (course, qualification, salary, id) value
                                                                                                                                                         Aug 14, 2022 12:38:01 PM org.hibernate.engine.jdbc.connections.internal.Driver
                                                                                                                                                         INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/ma
```

TABLE_PER_CLASS Strategy:

```
Tile Edit Source Refactor Navigate Search Project Bun Window Beip
                                                                                                                              QER
                    □ □ □ □ □ □ Personjava ② Studentjava ☑ Teacherjava
                                               s.setName("KLU");
                                 ☼ Problems ■ Javadoc N Declaration □ Cornote × □ Properties
                                                                                                           terminated brettarceMappingDeno (Mesa Appication) Cifrogram Files(Mawa)do:11214Den)Newsee (14-Aug-2022 124-218 PM-124220 PM) [init 19712]
Aug 14, 2022 12:42:20 PM org.hibernate.resource.transaction.backend.jdbc.inter
                                 INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernat
    IRE System Library []
                                 Hibernate: create table hibernate_sequence (next_val bigint) engine=MyISAM
   Hibernate/CRUDOpera
                                 Hibernate: insert into hibernate_sequence values ( 1 )
  src/main/java
a com/kletjfsd
                                 Hibernate: create table person_table (id integer not null, gender varchar(255)
                                 Hibernate: create table student table (id integer not null, gender varchar(255 Hibernate: create table teacher_table (id integer not null, gender varchar(255
                                 Hibernate: alter table faculty_table add constraint UK_trveb37dbf50hs8gckoqj8c
                                 Aug 14, 2022 12:42:20 PM org.hibernate.engine.transaction.jta.platform.internation.
                                 INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.trans
    JRE System Library Liv
                                 Hibernate: select next_val as id_val from hibernate_sequence for update
  Maven Dependencies
                                 Hibernate: update hibernate_sequence set next_val= ? where next_val=?
                                 Hibernate: select next val as id_val from hibernate_sequence for update
                                 Hibernate: update hibernate sequence set next_val=? where next_val=? Hibernate: select next_val as id_val from hibernate sequence for update
                                 Hibernate: update hibernate_sequence set next_val= ? where next_val=?
                                 Success...!!!
                                 Hibernate: insert into person table (gender, name, id) values (?, ?, ?)
                                 Hibernate: insert into student table (gender, name, backlogs, cgpa, program,
                                 Hibernate: insert into teacher_table (gender, name, course, qualification, sa
                                 Aug 14, 2022 12:42:20 PM org.hibernate.engine.jdbc.connections.internal.Drive
                                 INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/ma
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```

Output:

SINGLE TABLE STRATEGY

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                                          E S P I = C V Person
■ Package Explorer ×
                                                                                                                          II InheritanceMappingDemo lava × ii hibemate.cfg.ami
           nateCRUDOp
                                                                        1 package inheritancemapping;

    a comklet itsd

         in Studentjava
in StudentCRUDOper
                                                                        3*import org.hibernate.*;
       iii hibernate.cfg.xml
iii Student.hbmumi
IRE System Library ()
                                                                        6 public class InheritanceMappingDemo
                                                                   ** Problems = Mevador (ii) Declaration (iii) Console × (iii) Properties - terminated - inheritanceMappingDemo (Iava Application) C5Program Files\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis\Basis
                                                                                                                                                                                                                             Hibernate: create table hibernate_sequence (next_val bigint) engine=MyISAM
           inheritancemapp
(i) Inheritancelda
(ii) Person java
(ii) Student java
(ii) Teacher java
                                                                    Hibernate: insert into hibernate_sequence values ( 1 )
                                                                   Hibernate: create table person_table (type varchar(100) not null, id integer r
                                                                   Hibernate: alter table faculty table add constraint UK trveb37dbf50hs8gckoqj8c Aug 14, 2022 2:27:08 PM org.hibernate.engine.transaction.jta.platform.internal
     src/main/resources

    Stycmatryresources
    Stycmatryresources
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                                                                    INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.trans
                                                                    Hibernate: select next val as id val from hibernate sequence for update
                                                                    Hibernate: update hibernate sequence set next val= ? where next val=?
                                                                    Hibernate: select next_val as id_val from hibernate_sequence for update
                                                                    Hibernate: update hibernate_sequence set next_val= ? where next_val=?
                                                                    Hibernate: select next_val as id_val from hibernate_sequence for update
                                                                    Hibernate: update hibernate_sequence set next_val= ? where next_val=?
                                                                    Success....!!!
                                                                    Hibernate: insert into person_table (gender, name, type, id) values (?, ?, 'pe
                                                                    Hibernate: insert into person_table (gender, name, backlogs, cgpa, program, ty
                                                                    Hibernate: insert into person_table (gender, name, course, qualification, sala
                                                                    Aug 14, 2022 2:27:08 PM org.hibernate.engine.jdbc.connections.internal.Driver
                                                                    INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/ma
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