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http://www.java4s.com/hibernate/difference-between-merge-and-update-methods-in-hibernate/

http://www.concretepage.com/hibernate/hibernate-object-states

#### Hibernate defines and supports the following object states:

- Transient an object is transient if it has just been instantiated using the new operator, and it is not associated with a Hibernate Session
- Persistent a persistent instance has a representation in the database and an identifier value
- Mapping in this image is the right way.

#### ManytoOne OneToMany mapping - Bidirectional

```
@Entity
@Table(name = "STUDENT")
public class Student {

    @Id
    @GeneratedValue
    private int student_id;

    private String student_name;

    @ManyToOne(cascade = CascadeType.ALL)
    private StudentAddress studentAddress;

    public StudentAddress getStudentAddress() {
        return studentAddress;
    }

    public void setStudentAddress(StudentAddress studentAddress) {
        this.studentAddress = studentAddress;
    }
```

```
@Entity
@Table(name= "STUDENTADDRESS")
public class StudentAddress {

@     @Id
     @GeneratedValue
     private int address_id;

     private String address_detail;

@     @OneToMany(cascade = CascadeType.ALL, mappedBy = "studentAddress")
     private Set<Student> students = new HashSet<Student>(0);;

@     public Set<Student> getStudents() {
          return students;...
}

@     public void setStudents(Set<Student> students) {
          this.students = students;
}
```

@ManyToOne(cascade = CascadeType.ALL) @JoinColumn(name="egal welche name")

```
日与阳
                                                                                                                                         public class Main {

■ FirstHibernateProjectManyToOneMapping

       ▲ ﷺ src
                                                                                                                                                     public static void main(String[] args) {

▲ com.gontuseries.hibernate

                        Main.java
                                                                                                                                                                  StudentAddress studentAddress = new StudentAddress();
studentAddress.setAddress_detail("Hyderabad, India");
                        x hibernate.cfg.xml
                                                                                                                                                                   Student student1 = new Student();

→ JRE System Library [JavaSE-1.7]

                                                                                                                                                                  student1.setStudent_name("Gontu1");

▶ ➡ Hibernate Library

                                                                                                                                                                  student1.setStudentAddress(studentAddress);

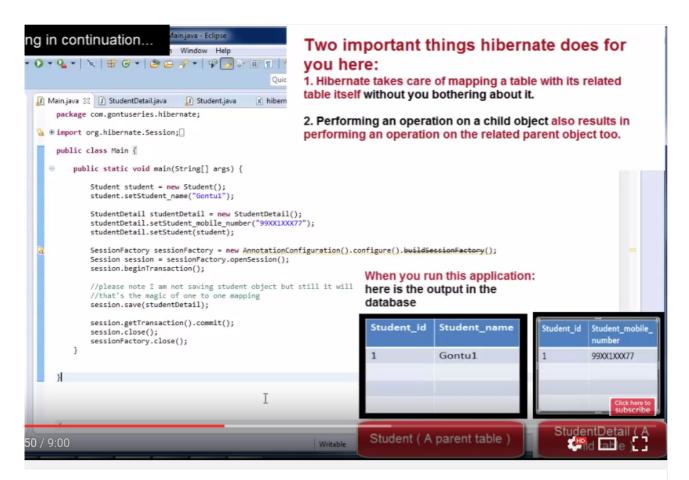
→ Maria Maria
                                                                                                                                                                  Student student2 = new Student();
                                                                                                                                                                  student2.setStudent_name("Gontu2");
                                                                                                                                                                  student2.setStudentAddress(studentAddress);
                                                                                                                                                                  SessionFactory sessionFactory = new <u>AnnotationConfiguration()</u>.configure().buildSessionFactory();
                                                                                                                                                                  Session session = sessionFactory.openSession();
                                                                                                                                                                  session.beginTransaction();
                                                                                                                                                                   //please note I am not saving studentAddress object but still it will be saved in database
                                                                                                                                                                   //that's the magic of Many to one mapping
                                                                                                                                                                  session.save(student1):
                                                                                                                                                                  session.save(student2);
                                                                                                                                                                                                                                                                                                                                                                                                                      Ι
                                                                                                                                                                  session.getTransaction().commit();
                                                                                                                                                                   session.close();
                                                                                                                                                                  sessionFactory.close();
```

## OneToOne Bidirectional

```
Main.java
StudentDetail.java
Student.java
X hibernate.cfg.xml
博
            @Table(name= "STUDENTDETAIL")
           public class StudentDetail {
                @Id @GeneratedValue(generator = "newGenerator") //name of the primary key generator
@GenericGenerator(name = "newGenerator", strategy = "foreign",parameters = { @Parameter(value = "student", name = "property") })
                private int student_id;
                private String student_mobile_number;
                @OneToOne(cascade = CascadeType.ALL)
@JoinColumn(name = "student_id")
                private Student student;
                public Student getStudent() {
                     return student;
                public void setStudent(Student student) {
                     this.student = student;
                public int getStudent_id() {
                     return student id:
                public void setStudent_id(int student_id) {
    this.student_id = student_id;
                public String getStudent_mobile_number() {
                     return student_mobile_numbe
                public void setStudent_mobile_number(String student_mobile_number) {
    this.student_mobile_number = student_mobile_number;
                     4:46 / 9:00
```

Hibernate Tutorial part 9 - Unidirectional VS Bidirectional One to One Mapping, CascadeType

```
mport javax.persistence.CascadeType;
    @Entity
    public class PersonDetail {
        private int personDetailId;
        private String zipCode;
        private String job;
        private double income;
        private Person person;
        @OneToOne (mappedBy="pDetail", cascade= CascadeType. ALL) Annotations should be placed
        public Person getPerson() {
                                                                      on Object declaration and not
                                                                      on getters and setters.
             return person;
                                                                      // Private Person person
        public void setPerson(Person person) {
             this.person = person;
        @Id
        @GeneratedValue
        @Column(name="detailId_PK")
        public int getPersonDetailId() {
             Execution Plan Bookmarks
One to One Bi-directional
                                                                  Up ne
```



rial part 9 - Unidirectional VS Bidirectional One to One adeType

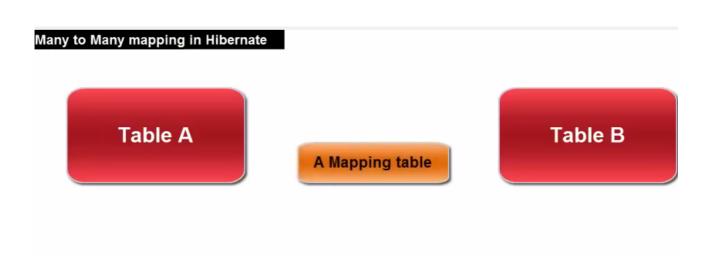
ManyToMany bidirectional Relationships.



Student table is having a many to many relationship with StudentCertification table.



ibernate Tutorial part 13 - Many to Many mapping in detail



if 0, 1 or many records in table A can be linked with a 0, 1 or many records in Table B then, TABLE A has a Many to Many relationship with TABLE B:



Hibernate Tutorial part 13 - Many to Many mapping in detail

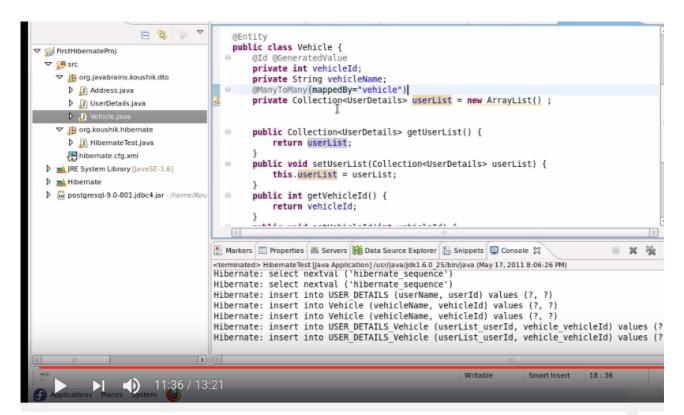
```
package com.gontuseries.hibernate;

⊕ import java.util.HashSet;

   @Entity
   @Table(name = "STUDENT")
   public class Student {
       @GeneratedValue
       private int student_id;
       private String student_name;
       @ManyToMany(cascade = CascadeType.ALL)
       private Set<StudentCertification> studentCertification = new HashSet<StudentCertification>(0);
       public Set<StudentCertification> getStudentCertification() {
           return studentCertification;
       public void setStudentCertification(
               Set<StudentCertification> studentCertification) {
           this.studentCertification = studentCertification;
       public int getStudent_id() {
           return student_id;
       public void setStudent_id(int student_id) {
           this.student_id = student_id;
                                                       Writable
                                                                       Smart Insert
                                                                                     35:1
```

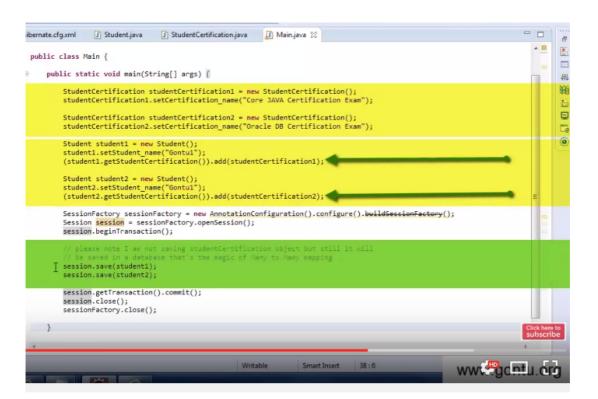
# : 13 - Many to Many mapping in detail

Mapping done here. Note you can also include: cascade = CascadeType.ALL annotation.



Up

- mappedBy and Many To Many Mapping



13 - Many to Many mapping in detail

https://www.youtube.com/watch?v=jAi8bY-H\_ek

### How to avoid NotFound Exception in hibernate

```
IMPORT OF Y. HIDEF HATE. ANNOTATIONS . NOTE OUR UNCLEON,
   @Entity
   public class Vehicle {
     @Id @GeneratedValue
      private int vehicleId;
      private String vehicleName;
      @ManyToOne
      @NotFound(action=NotFoundAction.IGNORE)
     private UserDetails user;
      public int getVehicleId() {
         return vehicleId;
 0
      public void setVehicleId(int vehicleId) {
         this.vehicleId = vehicleId;
```

With the <code>@NotFound</code> annotation hibernate will ignore not throw an exception when it does not find a table on the database.