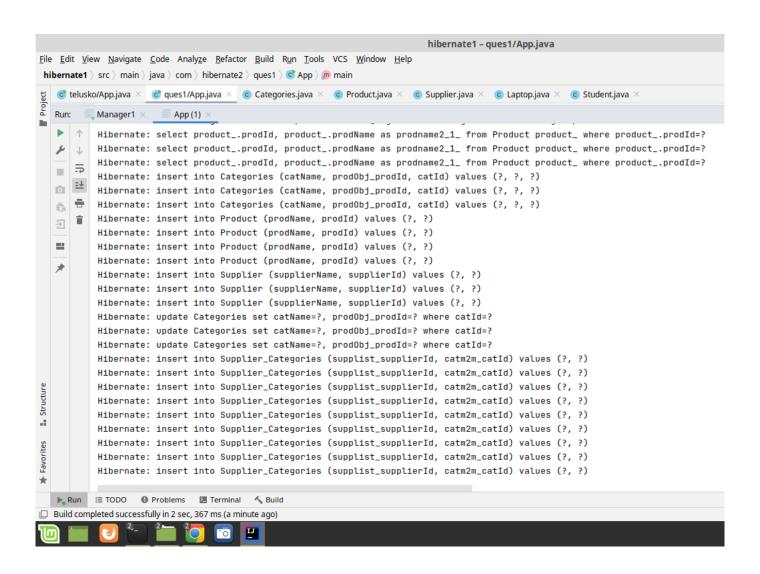
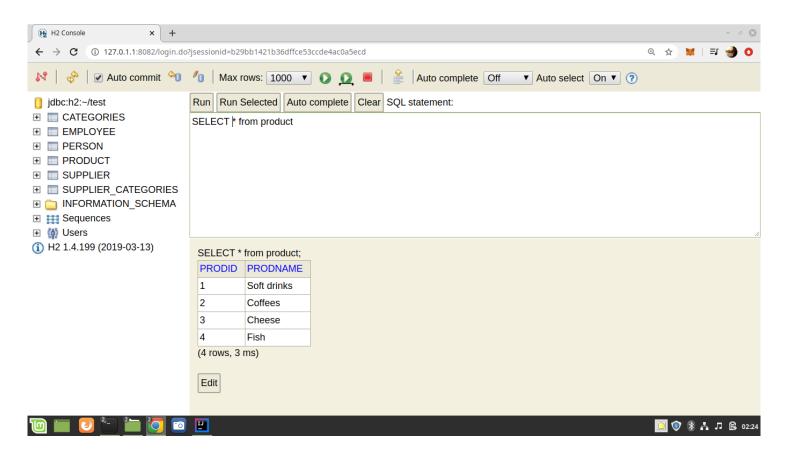
### Kishan Mishra

Email: kishan.mishra@accolitedigital.com

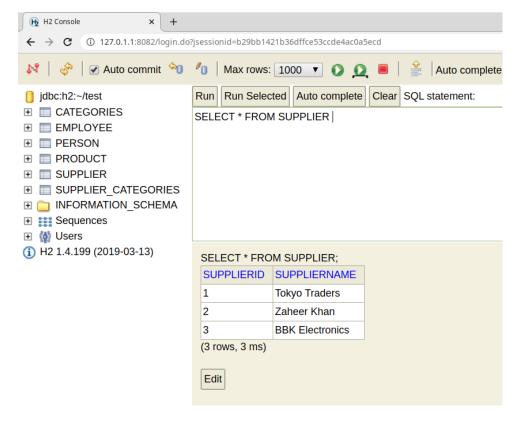
## **Assignment Hibernate 2**

Ques 1: Ecommerce ------ Product (product to categories is one-to-many) Categories () Supplier (many to many with Categories)

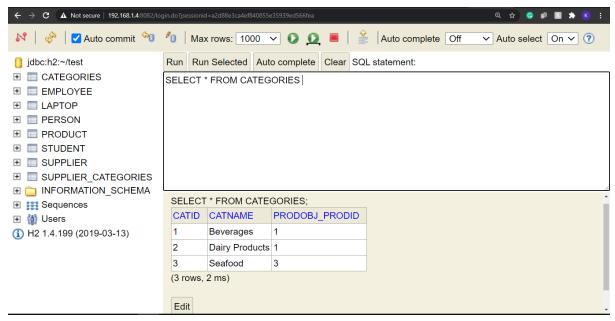




**Product Table** 

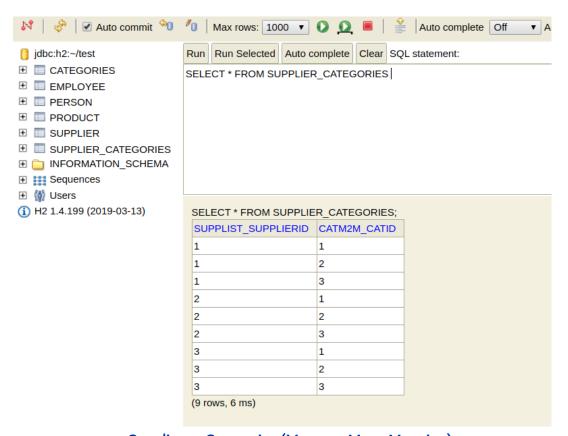


**Supplier Table** 



Categories table mapping with products table (Product to Category: One to Many)

In the above image: Product with ID 1 belongs to Category 1 and 2 both



Supplier to Categories (Many to Many Mapping)

## Ques 2: Fix the problem in many to many for given example

#### Error Code:

```
public class Manager1 {
    public static void main(String args[]) {
        Session ses = Util.getSession();
        Categories c1 = new Categories();
        c1.setCategoryId(1);
        c1.setCategoryName("cat 1");
        Categories c2 = new Categories();
        c2.setCategoryId(2);
        c2.setCategoryName("cat 2");
        Item i1 = new Item();
        Item i2 = new Item();
        i1.setItemId(101);
        i1.setItemName("item1");
        i2.setItemId(102);
        i2.setItemName("item2");
        Set s = new HashSet();
        s.add(i1);
        s.add(i2);
        c1.setItems(s);
        c2.setItems(s);
        Transaction tx = ses.beginTransaction();
        ses.save(c1);
        ses.save(c2);
        tx.commit();
        System.out.println("Man to Many using annotations been
done...!!!!!");
        ses.close();
    }
```

#### Fixed Code:

```
public class Manager1 {
   public static void main(String args[]) {
      Session ses = Util.getSession();
      Categories c1 = new Categories();
      c1.setCategoryId(1);
      c1.setCategoryName("cat 1");
      Categories c2 = new Categories();
      c2.setCategoryId(2);
      c2.setCategoryName("cat 2");

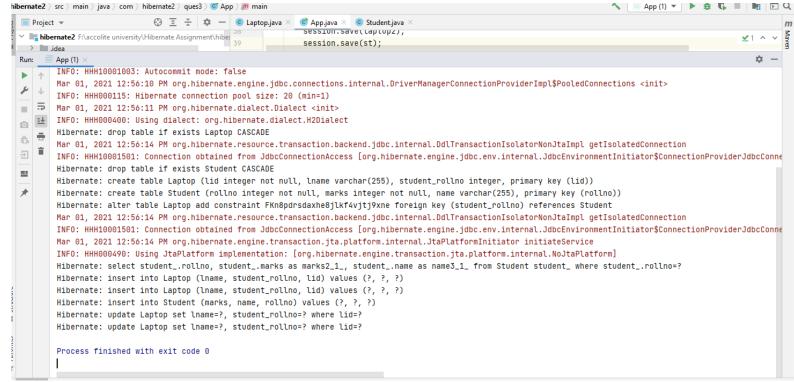
   Item i1 = new Item();
   Item i2 = new Item();
```

```
i1.setItemId(101);
        i1.setItemName("item1");
        i2.setItemId(102);
        i2.setItemName("item2");
        Set s = new HashSet();
        s.add(i1);
       s.add(i2);
       c1.setItems(s);
       c2.setItems(s);
       Set itemset = new HashSet();
       itemset.add(c1);
       itemset.add(c2);
       i1.setCategories(itemset);
       i2.setCategories(itemset);
        Transaction tx = ses.beginTransaction();
        ses.save(c1);
        ses.save(c2);
       ses.save(i1);
       ses.save(i2);
        tx.commit();
       System.out.println("Man to Many using annotations been
done...!!!!!");
       ses.close();
   }
```

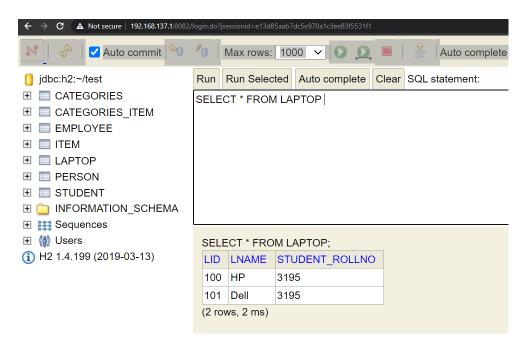
**Fix**: In the Manager1 class, the HashSet for Items is not set. Since it is a many to many mapping, we need the HashSet of Items in Categories class, and Hashset of Categories in Items class, and the same needs to be set for both the classes in the Manager Class. So the implementation of addition of Items hashset was missing in manager 1.

# Ques 3: Create an application for many to one other than sample example

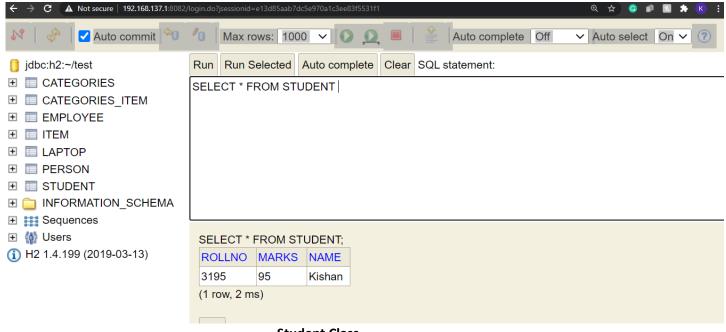
Creating two classes: Student and Laptop. With a many to one relationship between (Many to one mapping between Laptop to Student => Many laptops can belong to one student)



Console Output (Laptop to Students class: Many to One)



Laptop Table (Many to One mapping: Laptop to Student)



**Student Class**