

Accolite University Feb Batch 1

Hibernate 2 Assignment

Fixing Many To Many Mapping Example

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Solution to the Existing Error:

In the Manager1 Class we need to create a Set of Categories and add the c1 and c2 categories into it after which we have to set this CategoriesSet to each of the Items as done for Item Set. Then we can save those i1 and i2 into the session. i.e.:

```
Set c = new HashSet();  
c.add(c1);  
c.add(c2);
```

```
i1.setCategories(c);  
i2.setCategories(c);
```

```
ses.save(i1);  
ses.save(i2);
```

Original Code Snippet

```
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();  
    }  
}
```

Modified Code Snippet

```
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 i = new HashSet();  
i.add(i1);  
i.add(i2);  
  
c1.setItems(i);  
c2.setItems(i);  
  
Set c = new HashSet();  
c.add(c1);  
c.add(c2);  
  
i1.setCategories(c);  
i2.setCategories(c);  
  
Transaction tx = ses.beginTransaction();  
ses.save(c1);  
ses.save(c2);  
ses.save(i1);  
ses.save(i2);  
tx.commit();  
System.out.println("Many to Many using annotations been done...!!!!");  
ses.close();  
}
```

SCREENSHOTS

1. All Queries

The screenshot shows the Eclipse IDE console with the following logs and SQL queries:

```
<terminated> Manager! (2) [Java Application] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (28-Feb-2021, 10:52:20 pm)
Feb 28, 2021 10:52:23 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Feb 28, 2021 10:52:23 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001005: using driver [com.mysql.jdbc.Driver] at URL [jdbc:mysql://localhost:3306/accolite_hibernate]
Feb 28, 2021 10:52:23 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001001: Connection properties: {password=****, user=root}
Feb 28, 2021 10:52:23 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001003: Autocommit mode: false
Feb 28, 2021 10:52:23 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$PooledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Feb 28, 2021 10:52:23 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQL5Dialect
Hibernate: drop table if exists categories
Feb 28, 2021 10:52:24 PM org.hibernate.resource.transaction.backend.jdbc.internal.DdlTransactionIsolatorNonJtaImpl getIsolatedConnection
INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernate.engine.jdbc.env.internal.JdbcEnvironmentInitiator$ConnectionProviderJdbcConnectionAccess@af53fc] for
Hibernate: drop table if exists categories_items
Hibernate: drop table if exists item
Hibernate: create table categories (catid integer not null, catname varchar(10), primary key (catid)) engine=MyISAM
Feb 28, 2021 10:52:24 PM org.hibernate.resource.transaction.backend.jdbc.internal.DdlTransactionIsolatorNonJtaImpl getIsolatedConnection
INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernate.engine.jdbc.env.internal.JdbcEnvironmentInitiator$ConnectionProviderJdbcConnectionAccess@5527b211] for
Hibernate: create table categories_items (categories_catid integer not null, items_itemid integer not null, primary key (categories_catid, items_itemid)) engine=MyISAM
Hibernate: create table item (itemid integer not null, itemname varchar(10), primary key (itemid)) engine=MyISAM
Hibernate: alter table categories_items add constraint FK1fuhw28svpg9mnlv4ns9ja foreign key (items_itemid) references item (itemid)
Hibernate: alter table categories_items add constraint FK1fuhw28svpg9mnlv4ns9ja foreign key (categories_catid) references categories (catid)
Feb 28, 2021 10:52:25 PM org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator initiateService
INFO: HHH000400: Using jtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
Hibernate: select item_itemid, item_itemname as itemname2_2_ from item item_ where item_itemid=?
Hibernate: select item_itemid, item_itemname as itemname2_2_ from item item_ where item_itemid=?
Hibernate: insert into categories (catname, catid) values (?, ?)
Hibernate: insert into item (itemname, itemid) values (?, ?)
Hibernate: insert into categories_items (categories_catid, items_itemid) values (?, ?)
Hibernate: insert into categories_items (categories_catid, items_itemid) values (?, ?)
Hibernate: insert into categories_items (categories_catid, items_itemid) values (?, ?)
Hibernate: insert into categories_items (categories_catid, items_itemid) values (?, ?)
Many to Many using annotations been done.....!!!!
```

2. Categories Table

Query: `SELECT * FROM categories;`

catid	catname
1	cat 1
2	cat 2

3. Item Table

Query: `SELECT * FROM item;`

itemid	itemname
101	item1
102	item2

4. Categories_Items Table

Query: `SELECT * FROM categories_items;`

categories_catid	items_itemid
1	101
1	102
2	101
2	102