

Workshop

Introduction

In this workshop:

- We continue with the previous project.
- We test how we can delete data using hibernate
- We test how we can update data using hibernate

Our project

We use the same project that we have used in the previous workshop.

Here is a link to the previous workshop:

https://docs.google.com/document/d/1CDbdT5qZy-N_6dZwzgorviYXdOJ35AHa9Bf85BH8zK4/edit?usp=sharing

Instructions to use Derby

You are provided with the Derby in a zip file. Unzip the zip file somewhere on your computer. Then navigate to the folder, go to the bin folder.

There is a file `NetworkServerControl.bat` which will be run to start the derby for Windows users.

Windows;

```
NetworkServerControl.bat -p 50000 start
```

Linux and mac

```
./NetworkServerControl -p 50000 start
```

Open another terminal and go to the bin directory again and from there run:

`ij.bat` or

```
./ij
```

ij is an interactive shell and there we can create databases, tables, etc.

We should connect to a database or if the database does not exist, create one.

```
connect 'jdbc:derby://localhost:50000/hibernate; create=true' ;
```

Delete Object

myStudent object in the following code is a student with Id number 2 retrieved from the table:

```
Student myStudent =(Student) session.get(Student.class, 2);
```

Now we can delete it with the delete method in Session class:

This line should be before the tx.commit();

```
session.delete(myStudent);
```

Update Object

We create and insert a new student.

```
Student anotherStudent = new Student("Bob Jones" , "John Westland");  
session.save(anotherStudent);
```

Run the code.

In order to update this student, we need to retrieve it from the table.

For the first line you should find the id of the above student.

```
Student anotherStudent_toUpdate = (Student) session.get(Student.class, 3);  
anotherStudent_toUpdate.setTutorName("David Graveyard");
```

If you notice, we are using the method *setTutor* which we do not have yet. Create it in your *Student* class.

By this line, we updated the name of the tutor for this student in the table.