Report of A+

First of all, we looked for Hibernate Full – Text Search documentation and I found it in https://docs.jboss.org/hibernate/search/4.5/reference/en-US/html single/#preface.

(We used 4.5.3 Final Version of Hibernate Search and 4.3.0 Version of Hibernate Core)

- 🗓 🔟 hibernate-core-4.3.0.Final.jar C:\Documents and Settings\Student\.m2\repository\org\hibernate\hibernate-core\4.3.0.Final
- 🗓 🐻 hibernate-search-4.5.3.Final.jar C:\Documents and Settings\Student\,.m2\repository\org\hibernate\hibernate-search\4.5.3.Final

Then, we added the following annotations, properties and dependencies to the class FixUpTask, pom.xml and persistence.xml.

```
| Projection | Project | P
```

@Indexed marks FixUpTask as indexable.

@Field marks the field we want to make searchable (ticker, description and address in our case). The parameter index=Index.YES will ensure that the text will be indexed, while analyze=Analyze.YES ensures that the text will be analyzed using the default Lucene analyzer. The third parameter we specify within @Field, store=Store.NO, ensures that the actual data will not be stored in the index.

```
| Description | Processing | Acceptance | Ac
```

We analyzed **SchemaPrinter**, **ConsoleReader**, **QueryDatabase**, **DatabaseEnquirer** and **DatabaseUtil** classes and we got to understand which was the functioning.

</persistence-unit>

</persistence>

As we can see at the photo, we added a new case named "find" that is similar to the "select" case and we created a new method in DatabaseUtil class called executeFind.

```
| PopulateDatabase.java | RegulateDatabase.min | DelabaseEinquirer.java | DelabaseUil.java | DelabaseUil.jav
```

We catch the entire body of method in the URL above and we modified it a bit to adapt it to our case. The method receives a **String** as parameter, that will be the search's parameter that we insert in the console. It results a List of objects that will be printed out by **SchemaPrinter**.

```
case "select":
   objects = databaseUtil.executeSelect(line);
   System.out.printf("%d object%s selected%n", objects.size(), (objects.size() == 1 ? "" : "s"));
   SchemaPrinter.print(objects);
   break:
```

Now, it's time to test it!

1. Ticker

2. Description

```
> find door;
2 objects selected
domain.FixUpTask{id=3988, version=0}
        domain.DomainEntity::id: int = 3988
        domain.DomainEntity::version: int = 0
        domain.FixUpTask::ticker: java.lang.String = "180112-090001"
        domain.FixUpTask::moment: java.util.Date = <<2015-03-20 15:17:00.0>>
        domain.FixUpTask::description: java.lang.String = "Fix the door of a room"
        domain.FixUpTask::address: java.lang.String = "Calle Consuelo n 2"
        domain.FixUpTask::maxPrice: double = 150.54
        domain.FixUpTask::startTime: java.util.Date = <<2016-03-20 12:13:00.0>>
        domain.FixUpTask::endTime: java.util.Date = <<2016-03-30 14:00:00.0>>
        domain.FixUpTask::finder: domain.Finder = domain.Finder(id=3956, version=0)
        domain.FixUpTask::category: domain.Category = domain.Category(id=3964, version=0)
        domain.FixUpTask::customer: domain.Customer = domain.Customer(id=3896, version=0)
domain.FixUpTask(id=3989, version=0)
        domain.DomainEntity::id: int = 3989
        domain.DomainEntity::version: int = 0
        domain.FixUpTask::ticker: java.lang.String = "180112-090011"
        domain.FixUpTask::moment: java.util.Date = <<2016-03-20 15:17:00.0>>
        domain.FixUpTask::description: java.lang.String = "Fix the door of a kitchen"
        domain.FixUpTask::address: java.lang.String = "Calle arribas n 2"
        domain.FixUpTask::maxPrice: double = 170.54
        domain.FixUpTask::startTime: java.util.Date = <<2017-03-20 12:13:00.0>>
        domain.FixUpTask::endTime: java.util.Date = <<2018-10-30 14:00:00.0>>
        domain.FixUpTask::finder: domain.Finder = domain.Finder(id=3957, version=0)
```

3. Address