JPA / EclipseLink Workshop Script IntelliJ

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Requirements: empty mavenized Model Project

- 1. Maven Dependencies
 - a. Copy POM from Moodle to Project Domain
- 2. Entities
 - a. Convert Project Domain to JPA Project (Right click on project -> Open Module settings-> Facets -> Add JPA Facet
 - b. Select JPA Facet -> Add Descriptor "persistance.xml" -> Path: domian/src/main/resources/META-INF/persistence.xml
 - c. Select "EclipseLink" as Defautl JPA Provider
 - d. Open the "Persistence" tool window -> Right click on project -> New -> Persistence Unit -> Name: ch.bfh.swos.bookappp.domain
 - e. Create Author Entity (Right click on created persistance unit in Persistance tool window -> New -> Entity...)
 - f. Java Package ch.bfh.swos.bookapp.model, Classname Author -> OK
 - g. Right click on created Entity in Persistance tool window -> New -> Id...
 - h. Name: id, Type: Long, Generated: checked
 - i. Repeat right click on created Entity in Persistance tool window -> New -> Basic... to add Properties:

String:firstname String:lastname

- j. Create **Book** Entity (Right click on created persistance unit in Persistance tool window -> New -> Entity...)
- k. Java Package ch.bfh.swos.bookapp.model, Classname Book -> OK
- I. Repeat right click on created Entity in Persistance tool window -> New -> ... to add Properties:

java.lang.Long:id:Id/Generated String:title java.util.Date:releaseDate

- 3. Relations
 - a. Right click on Entity **Book** in Persistance tool window -> New -> **Many to One**...
 - b. Name: author, Type: Author
 - c. Right click on Entity Author in Persistance tool window -> New -> One To Many...
 - d. Name: books, Type: List<Book>, mappedBy: author
- 4. persistence.xml
 - a. Open persistance.xml
 - b. Add the following to the persistance unit:

```
cproperties>
```

- 5. Create Test
 - a. Copy CreatelT.java from Moodle to src/test/java in Domain Project
 - b. Right click on CreateIT.java -> Run CreateIT -> ValidationException
 - c. Goto Book -> releaseDate -> Add @Temporal(TemporalType.DATE) Annotation
 - d. Run again -> Tables created on Database -> cascade PERSIST missing,
 - e. Select Author -> books -> Add cascade = CascadeType.ALLas Parameter to OneToMany Annotation
 - f. Run again -> Everything OK
- 6. Read Test
 - a. Copy ReadIT.java, UpdateIT.java, DeleteIT.java and AllTests.java from Moodle (Same place as CreateIT)
 - b. Run AllTest .java as UnitTest-> Everything OK

Code unter: https://github.com/rvillars/ch.bfh.swos.bookapp.parent/tree/step02