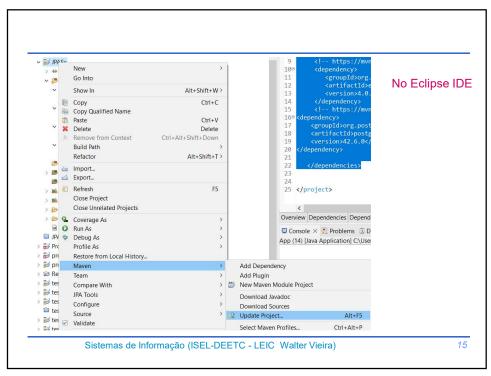
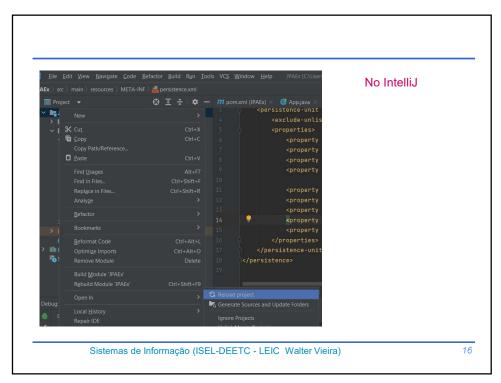
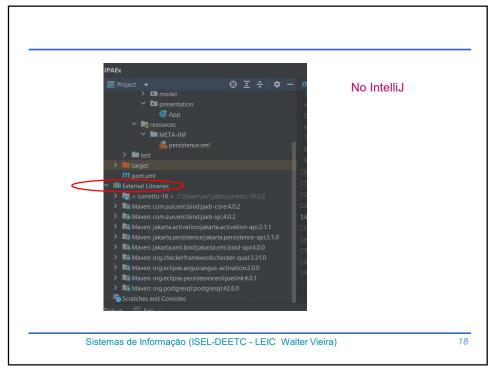


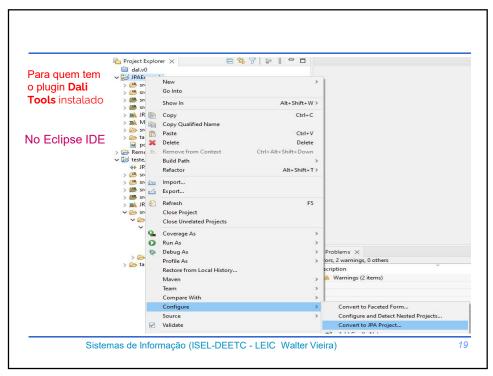
```
| "PAEupomami X | 1% group of the wints "http://www.apache.org/POU/4.0.0" xmins:esi="http://www.xvj.org/2001/XNLSchema-instance" xsi:schematocation="1" concell/vrsion34.0.0/model/vrsion3 | group/doisel.deetc.sisinfs/group/doisedcore-richido | concentration="1" con
```

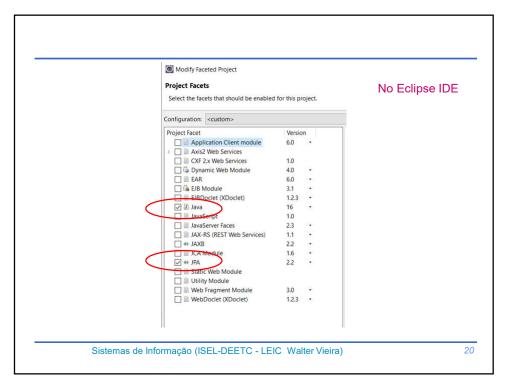


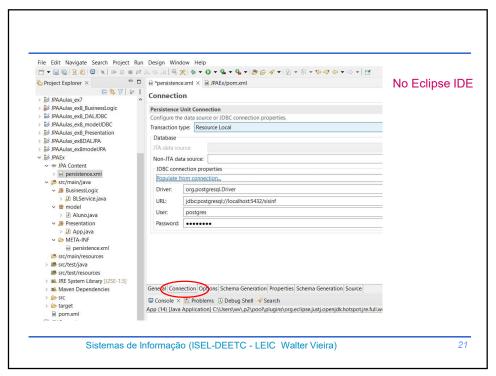




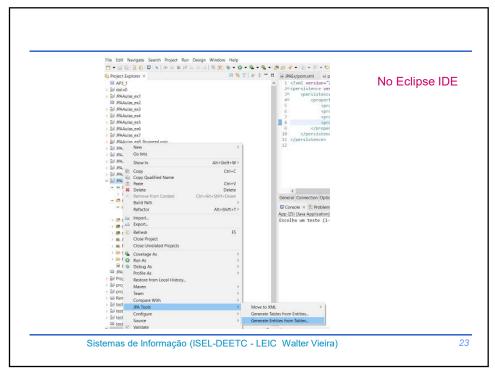


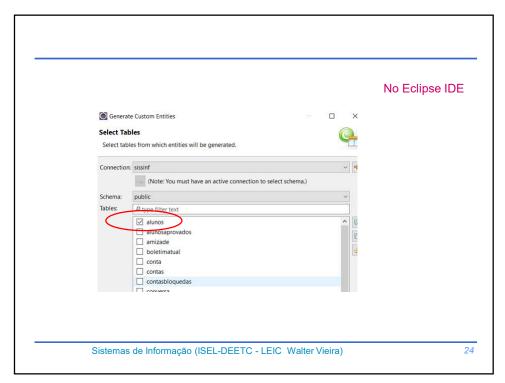






```
### Panal version=7.0" encoding="UF-8"?>
| Panal version=7.0" encoding="UF-8"?
| Panal version=7.0" encoding=7.0" encod
```

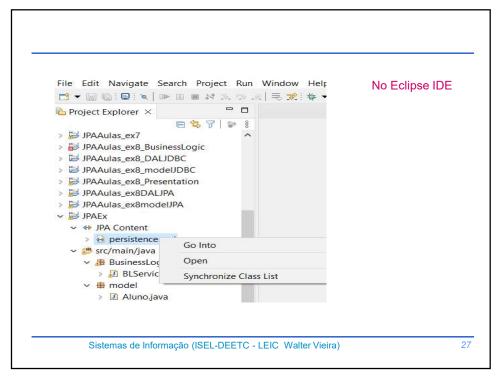




```
"Aluno.java X

1 package model;
2
30 import java.io.Serializable;
3 import java.io.Serializable;
5
60 /**
7 * The persistent class for the alunos database table.
8 *
9 */
010 @Entity
011 @Table(name="alunos")
012 @NamedQuery(name="Aluno.findAll", query="SELECT a FROM Aluno a")
013 public class Aluno implements Serializable {
14 private static final long serialVersionUID = 1L;
15
0160 @Id
17 private long numal;

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```



```
Alunojava ×

1 package model;
2
36 import java.io.Serializable;
4 import jakarta.persistence.*;
5
66 /**
7 * The persistent class for the alunos database table.
8 *
9 */
10 @Entity
11 @Table(name="alunos")
12 @NamedQuery(name="Aluno.findAll", query="SELECT a FROM Aluno a")
13 public class Aluno implements Serializable {
14 private static final long serialVersionUID = 1L;
15
160 @Id
17 private long numal;
18
19 private String nomeal;
20
210 public Aluno() {
22 }
23
240 public long getNumal() {
25 return this.numal;
26
27

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```

Para quem não tem o plugin **Dali Tools instalado n**o eclipse IDE, ou para quem usa o IntelliJ (community edition) fazer tudo como até ao slide 19 e colocar o ficheiro persistence.xml numa pasta de nome META-INF em src/main/resources.

Colocar neste ficheiro o conteúdo seguinte, com as alterações nos locais assinalados:

```
<?xml version="1.0" encoding="UTF-8"?>
<persistence version="2.2" xmlns="http://xmlns.jcp.org/xml/ns/persistence"</pre>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/persistence
http://xmlns.jcp.org/xml/ns/persistence/persistence_2_2.xsd">
 <persistence-unit name="projetoBase" transaction-type="RESOURCE_LOCAL">
   <exclude-unlisted-classes>false</exclude-unlisted-classes>
  cproperties>
     cproperty name="jakarta.persistence.jdbc.url"
value="jdbc:postgresql://localhost:5432/sisinf"/>
     cproperty name="jakarta.persistence.jdbc.password" value="pa$$w0rd"/>
     cproperty name="jakarta.persistence.jdbc.driver"
                                  value="org.postgresql.Driver"/>
   </properties>
  </persistence-unit>
</persistence>
```

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Ter em conta que sem plugins específicos para JPA se perde alguma facilidade de desenvolvimento.

Existem plugins disponíveis, quer para eclipse, quer para intellij community.

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