# Tarea 8 Programación Avanzada Postgrado IIMAS

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Problema 1 En una base de datos postgres cree una base de datos que se llame "pavanzada" y que pertenezca al usuario "progavanz", opcionalmente puede llevar la contraseña "hola". A continuación cree dos tablas con el archivo adjunto pavanzada.sql desde la interfase de consola psql utilizando el comando 1(consulte la documentación). Ahora con un proyecto roo cree una aplicación web de altas, bajas y modificaciones de las dos tablas. El proyecto roo debe de ser mandado al ayudante

# Postgres Copiamos el archivo enviado a /tmp

Una vez instalado postgres y como usuario postgres se corren los siguientes comandos

```
CREATE TABLE
ALTER TABLE
CREATE SEQUENCE ALTER TABLE
ALTER SEQUENCE
CREATE TABLE
ALTER TABLE
CREATE SEQUENCE
ALTER TABLE
ALTER SEQUENCE
ALTER TABLE
ALTER TABLE
 setval
      32
(1 row)
 setval
(1 row)
ALTER TABLE
ALTER TABLE
ALTER TABLE
```

Aqui tenemos creada entonces la base de datos "pavanzada" que pertenece al usuario "progavanz" y con la contraseña "hola"

**roo** Una vez instalada spring tool suite, creamos un directorio y corremos roo en el.

#### Creamos el proyecto

```
roo> project --topLevelPackage mx.unam.mcc.pa --projectName problema1
Created ROOT/pom.xml
Created SRC_MAIN_RESOURCES
Created SRC_MAIN_RESOURCES/log4j.properties
Created SPRING_CONFIG_ROOT
Created SPRING_CONFIG_ROOT/applicationContext.xml
```

## Establecemos el uso de datos

```
roo> persistence setup —database POSTGRES —provider OPENJPA
Created SPRING.CONFIG.ROOT/database.properties
Please update your database details in
src/main/resources/META-INF/spring/database.properties.
```

En este momento nos solicita establecer correctamente el archivo database.properties que lo establecemos así:

```
database.driverClassName=org.postgresql.Driver database.url=jdbc\:postgresql\://localhost\:5432/pavanzada database.username=progavanz database.password=hola
```

# Probamos la conexión. Pero como no tiene todavia los drivers de Postgres nos pide instalarlos

```
roo> database introspect --schema public
Located add-ons that may offer this JDBC driver
2 found, sorted by rank; T = trusted developer; R = Roo 1.2 compatible
ID T R DESCRIPTION

11 Y Y 9.1.0.901-1.0001 Postgres #jdbcdriver...
12 Y Y 9.1.0.901_0001 Postgres #jdbcdriver...

12 DBC driver not available for 'org.postgresql.Driver'
13 roo> addon install bundle --bundleSymbolicName
14 addon install bundle --bundleSymbolicName
15 addon install bundle --bundleSymbolicName
16 addon install bundle --bundleSymbolicName
17 addon install bundle --bundleSymbolicName
18 addon install bundle --bundleSymbolicName
19 addon install bundle --bundleSymbolicName
20 addon install bundle --bundleSymbolicName
21 add-on of interest;
22 addon install bundle --bundleSymbolicName
22 addon install bundle --bundleSymbolicName
23 addon install bundle --bundleSymbolicName
24 add-on of interest;
25 addon install bundle --bundleSymbolicName
25 addon install bundle --bundleSymbolicName
26 addon install bundle --bundleSymbolicName
27 addon install bundle --bundleSymbolicName
28 addon install bundle --bundleSymbolicName
29 addon install bundle --bundleSymbolicName
20 addon install bundle --bundleSymbolicName
```

#### Lo instalamos tal como lo sugiere:

```
roo> addon install id --searchResultId 01
Target resource(s):
Spring Roo - Wrapping - postgresql-jdbc4 (9.1.0.901-1_0001)
Deploying...done.
Successfully installed add-on: Spring Roo - Wrapping - postgresql-jdbc4
[version: 9.1.0.901-1_0001]
```

# Y probamos de nuevo la conexión

Como ya esta conectando correctamente, procedemos a crear el modelo en base a la estructura de la base de datos

```
roo> database reverse engineer ——schema public
Created SRC_MAIN_RESOURCES/dbre.xml
Updated ROOT/pom.xml
Updated SRC_MAIN_JAVA/mx/unam/mcc/pa
Created SRC_MAIN_JAVA/mx/unam/mcc/pa
Created SRC_MAIN_JAVA/mx/unam/mcc/pa/Estado.java
Created SRC_MAIN_JAVA/mx/unam/mcc/pa/Estado.java
Updated SRC_MAIN_JAVA/mx/unam/mcc/pa/Estado.java
Updated SRC_MAIN_JAVA/mx/unam/mcc/pa/Estado.java
Updated SRC_MAIN_JAVA/mx/unam/mcc/pa/Estado.java
Created SRC_MAIN_JAVA/mx/unam/mcc/pa/Estado.pava
Created SRC_MAIN_JAVA/mx/unam/mcc/pa/Usuario.pava
Created SRC_MAIN_JAVA/mx/unam/m
```

# Inicializamos una aplicación web.

```
created ROOT/src/main/webapp/WEB-INF/spring
Created ROOT/src/main/webapp/WEB-INF/spring/webmvc-config.xml
Created ROOT/src/main/webapp/WEB-INF/spring/webmvc-config.xml
Updated ROOT/src/main/webapp/WEB-INF/spring/webmvc-config.xml
Created ROOT/src/main/webapp/images
Created ROOT/src/main/webapp/images/add.png
Created ROOT/src/main/webapp/images/add.png
Created ROOT/src/main/webapp/images/banner-graphic.png
Created ROOT/src/main/webapp/images/create.png
Created ROOT/src/main/webapp/images/delte.png
Created ROOT/src/main/webapp/images/favicon.ico
Created ROOT/src/main/webapp/images/favicon.ico
Created ROOT/src/main/webapp/images/resultset.prst.png
Created ROOT/src/main/webapp/images/resultset.prst.png
Created ROOT/src/main/webapp/images/resultset.previous.png
Created ROOT/src/main/webapp/images/resultset.previous.png
Created ROOT/src/main/webapp/images/resultset.previous.png
Created ROOT/src/main/webapp/images/springsource-logo.png
Created ROOT/src/main/webapp/images/springsource-logo.png
Created ROOT/src/main/webapp/images/springsource-logo.png
Created ROOT/src/main/webapp/styles/standard.css
Created ROOT/src/main/webapp/styles/standard.css
Created ROOT/src/main/webapp/styles/standard.css
Created ROOT/src/main/webapp/wEB-INF/classes
Created ROOT/src/main/webapp/WEB-INF/classes/standard.properties
Created ROOT/src/main/webapp/WEB-INF/layouts/default.jspx
Created ROOT/src/main/webapp/WEB-INF/layouts/default.jspx
Created ROOT/src/main/webapp/WEB-INF/layouts/default.jspx
Created ROOT/src/main/webapp/WEB-INF/layouts/spx
Created ROOT/src/main/webapp/WEB-INF/layouts/spx
Created ROOT/src/main/webapp/WEB-INF/views/sooter.jspx
Created ROOT/src/main/webapp/WEB-INF/views/sooter.jspx
Created ROOT/src/main/webapp/WEB-INF/views/sooter.jspx
Created ROOT/src/main/webapp/WEB-INF/views/dataAccessFailure.jspx
Created ROOT/src/main/webapp/WEB-INF/views/dataAccessFailure.jspx
Created ROOT/src/main/webapp/WEB-INF/views/sooter.jspx
Created ROOT/src/main/webapp/WEB-INF/views/sooter.jspx
Created ROOT/src/main/webapp/WEB-INF/views/sooter.j
```

```
Created ROOT/src/main/webapp/WEB-INF/tags/form/dependency.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/find.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/find.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/list.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/list.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/list.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/checkbox.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/column.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/column.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/column.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/column.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/editor.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/reference.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/simple.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/simple.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/simple.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/table.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/table.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/table.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/form/fields/table.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/menu/category.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/menu/item.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/menu/item.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/menu/item.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/weil/language.tagx
Created ROOT/src/main/webapp/WEB-INF/tags/util/language.tagx
```

#### Agregamos también el Scaffolding correspondiente al modelo que creamos.

```
roo> web mvc all ——package ~.web
Created SRC_MAIN_JAVA/mx/unam/mcc/pa/web
Created SRC_MAIN_JAVA/mx/unam/mcc/pa/web/UsuarioController.java
Created SRC_MAIN_JAVA/mx/unam/mcc/pa/web/EstadoController.java
Updated SRC_MAIN_WEBAPP/WEB-INF/spring/webmvc-config.xml
Created SRC_MAIN_WEBAPP/WEB-INF/views/estadoes
Created SRC_MAIN_WEBAPP/WEB-INF/views/estadoes/views.xml
Updated SRC_MAIN_WEBAPP/WEB-INF/views/estadoes/views.xml
Updated SRC_MAIN_WEBAPP/WEB-INF/il8n/application.properties
Created SRC_MAIN_WEBAPP/WEB-INF/views/usuarios
Created SRC_MAIN_WEBAPP/WEB-INF/views/usuarios
Created SRC_MAIN_WEBAPP/WEB-INF/views/usuarios/views.xml
Updated SRC_MAIN_WEBAPP/WEB-INF/views/usuarios/views.xml
Updated SRC_MAIN_WEBAPP/WEB-INF/views/usuarios/views.xml
Updated SRC_MAIN_WEBAPP/WEB-INF/views/estadoes/reate.jspx
Created SRC_MAIN_WEBAPP/WEB-INF/views/estadoes/list.jspx
Created SRC_MAIN_WEBAPP/WEB-INF/views/estadoes/show.jspx
Created SRC_MAIN_WEBAPP/WEB-INF/views/estadoes/show.jspx
Created SRC_MAIN_WEBAPP/WEB-INF/views/estadoes/update.jspx
Created SRC_MAIN_WEBAPP/WEB-INF/views/estadoes/update.jspx
Created SRC_MAIN_WEBAPP/WEB-INF/views/usuarios/list.jspx
Created SRC_MAIN_WEBAPP/WEB-INF/views/usuarios/show.jspx
Created SRC_MAIN_WEBAPP/WEB-INF/views/usuarios/create.jspx
Created SRC_MAIN_WEBAPP/WEB-INF/views/usuarios/create.jspx
```

#### Corremos las pruebas

```
roo> perform tests
[INFO] --- aspectj-maven-plugin:1.4:compile (default) @ problemal ---
[INFO] No modifications found skipping aspectJ compile
[INFO]
[INFO] --- aspectj-maven-plugin:1.4:test-compile (default) @ problemal ---
[WARNING] No sources found skipping aspectJ compile
[INFO]
```

```
—— maven-resources-plugin: 2.6: resources (default-resources) @ problema1 — Using 'UTF-8' encoding to copy filtered resources.
[INFO]
INFO
INFO
       Copying 5 resources
INFO
INFO
           maven-compiler-plugin: 2.5.1: compile (default-compile) @ problema1 ---
INFO
       Nothing to compile - all classes are up to date
INFO
INFO
          - openjpa-maven-plugin:2.2.2:enhance (enhancer) @ problema1 --
INFO
          - maven-resources-plugin:2.6:testResources @ problema1 ---
INFO
INFO
      Using 'UTF-8' encoding to copy filtered resources. skip non existing resourceDirectory
[INFO]
      fabian/workspace/maestria/programacion-avanzada/tarea8/src/test/resources
/home/
[INFO
       --- maven-compiler-plugin:2.5.1:testCompile @ problema1 --- No sources to compile
INFO
INFO
INFO
INFO
           mayen-surefire-plugin: 2.12: test (default-test) @ problema1 -
INFO
       No tests to run.
Surefire report directory:
INFO
/home/fabian/workspace/maestria/programacion-avanzada/tarea8/target/surefire-reports
TESTS
roo>
Results :
Tests run: 0. Failures: 0. Errors: 0. Skipped: 0
roo>
[INFO]
INFO
       BUILD SUCCESS
INFO
[INFO]
       INFO
INFO
       Final Memory: 14M/304M
[INFO]
```

## Salimos de roo y probamos la aplicación:

```
fabian@fabian-HP:~/workspace/maestria/programacion-avanzada/tarea8$ mvn jetty:run [INFO] Scanning for projects...
INFO
INFO
INFO
       Building problema1 0.1.0.BUILD-SNAPSHOT
INFO
INFO
INFO
       >>> jetty-maven-plugin:8.1.4.v20120524:run (default-cli) @ problema1 >>>
INFO
          - aspectj-maven-plugin:1.4:compile (default) @ problema1 ---
INFO
INFO
       No modifications found skipping aspectJ compile
INFO
           aspecti-maven-plugin:1.4:test-compile (default) @ problema1 ---
INFO
WARNING No sources found skipping aspectJ compile
INFO
       --- maven-resources-plugin: 2.6: resources (default-resources) @ problema1 --- Using 'UTF-8' encoding to copy filtered resources.
INFO
[INFO]
INFO
       Copying 5 resources
INFO
[INFO]
           maven-compiler-plugin:2.5.1:compile (default-compile) @ problema1 ---
[INFO]
       Nothing to compile - all classes are up to date
INFO
INFO
          openjpa-maven-plugin:2.2.2:enhance (enhancer) @ problema1 ---
INFO
INFO
          - maven-resources-plugin: 2.6: testResources @ problema1 -
INFO
INFO
          - maven-compiler-plugin:2.5.1:testCompile @ problema1 ---
INFO
       No sources to compile
INFO
       <<< jetty-maven-plugin:8.1.4.v20120524:run (default-cli) @ problema1 <<</pre>
INFO
INFO
          - jetty-maven-plugin:8.1.4.v20120524:run (default-cli) @ problema1 ---
INFO
       Configuring Jetty for project: problemal
Reload Mechanic: automatic
Classes = /home/fabian/workspace/maestria/programacion-avanzada/tarea8/
INFO
INFO
INFO
```

```
target/classes
[INFO] Context path = /problema1
[INFO] Tmp directory = /home/fabian/workspace/maestria/programacion-avanzada/
             Web defaults = org/eclipse/jetty/webapp/webdefault.xml
[INFO] Web overrides = none
[INFO] web.xml file = file:/home/fabian/workspace/maestria/programacion-avanzada/
 tarea8/src/main/webapp/WEB-INF/web.xml
[INFO] Webapp directory = /home/fabian/workspace/maestria/programacion-avanzada/tarea8/src/main/webapp
tareas/src/main/webapp
2013-11-23 22:31:48.120:INFO:oejs.Server:jetty-8.1.4.v20120524
2013-11-23 22:31:48.960:INFO:oejpw.PlusConfiguration:No Transaction manager found
if your webapp requires one, please configure one.
2013-11-23 22:31:50.760:INFO:/problemal:No Spring WebApplicationInitializer
types detected on classpath 2013-11-23 22:31:51:INFO:oejsh.ContextHandler:started o.m.j.p.JettyWebAppContext
{/problema1, file:/home/fabian/workspace/maestria/programacion-avanzada/tarea8/src/main/webapp/}, file:/home/fabian/workspace/maestria/programacion-avanzada/tarea8/
 src/main/webapp/
2013-11-23 22:31:51:INFO:oejsh.ContextHandler:started o.m.j.p.JettyWebAppContext {/problema1, file:/home/fabian/workspace/maestria/programacion-avanzada/tarea8/src/main/webapp/}, file:/home/fabian/workspace/maestria/programacion-avanzada/tarea8/
/main/webapp/
2013-11-23 22:31:51:INFO: oejsh . ContextHandler: started o.m. j.p. JettyWebAppContext
{/problema1, file:/home/fabian/workspace/maestria/programacion-avanzada/tarea8/src/main/webapp/}, file:/home/fabian/workspace/maestria/programacion-avanzada/tarea8/
/main/webapp/
2013-11-23 22:31:51:INFO:/problema1:Initializing Spring root WebApplicationContext
2013-11-23 22:31:51:INFO:oejsh.ContextHandler:started o.m.j.p.JettyWebAppContext
{/problema1, file:/home/fabian/workspace/maestria/programacion-avanzada/tarea8/
 main/webapp/}, file:/home/fabian/workspace/maestria/programacion-avanzada/tarea8/
 src/main/webapp/
2013-11-23 22:31:51.738:INFO:/problemal:Initializing Spring FrameworkServlet 'problemal' 2013-11-23 22:31:52.474:INFO:oejs.AbstractConnector:
 Started SelectChannelConnector@0.0.0.0:8080
 [INFO] Started Jetty Server
```

