11ª Emisión

DIPLOMADO

Desarrollo de Sistemas con Tecnología Java

Módulo 7

Persistencia con Spring Data

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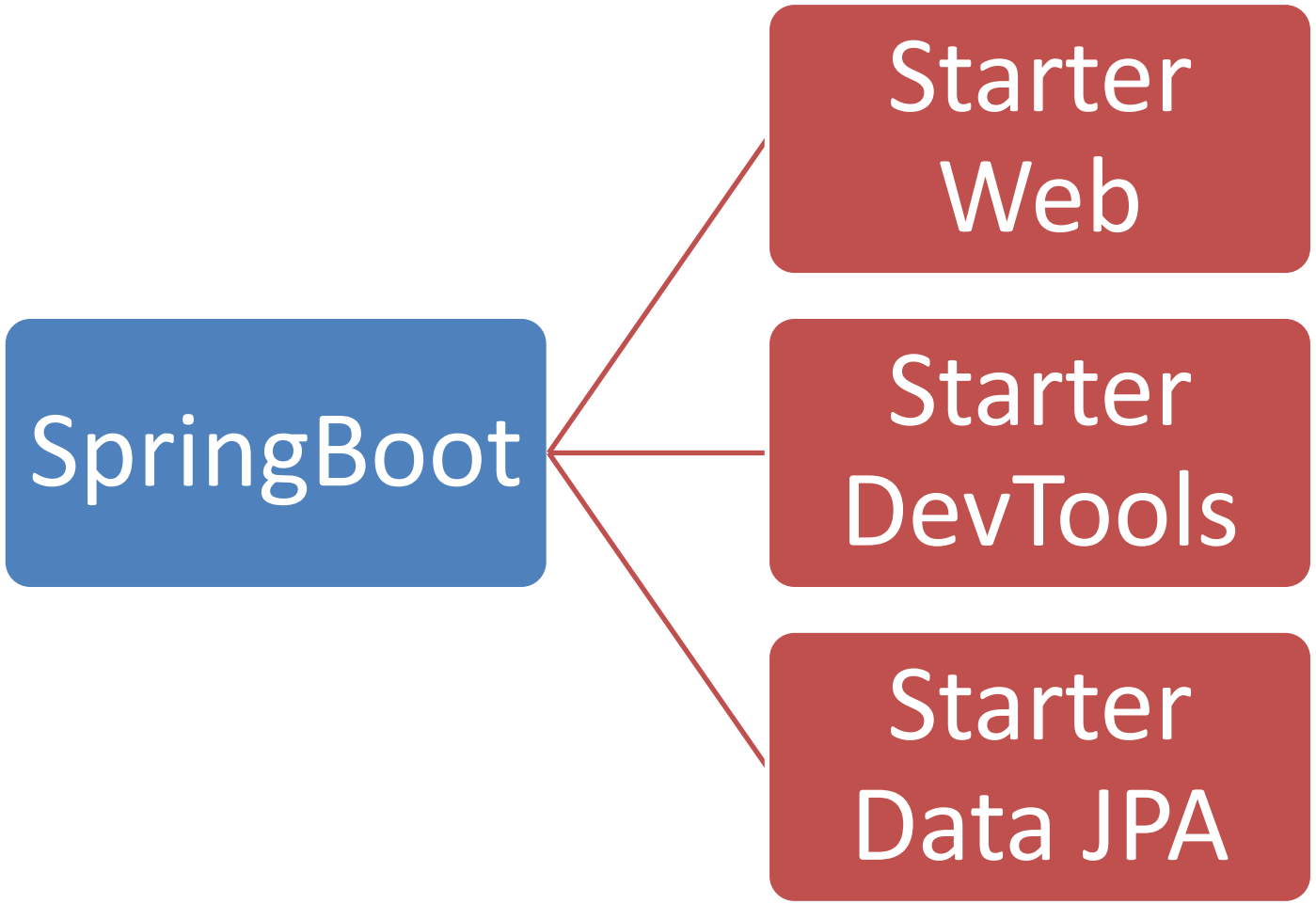
Dirección de Docencia en TIC

DGTIC

50 AÑOS Educación Continua 1971 - 2021

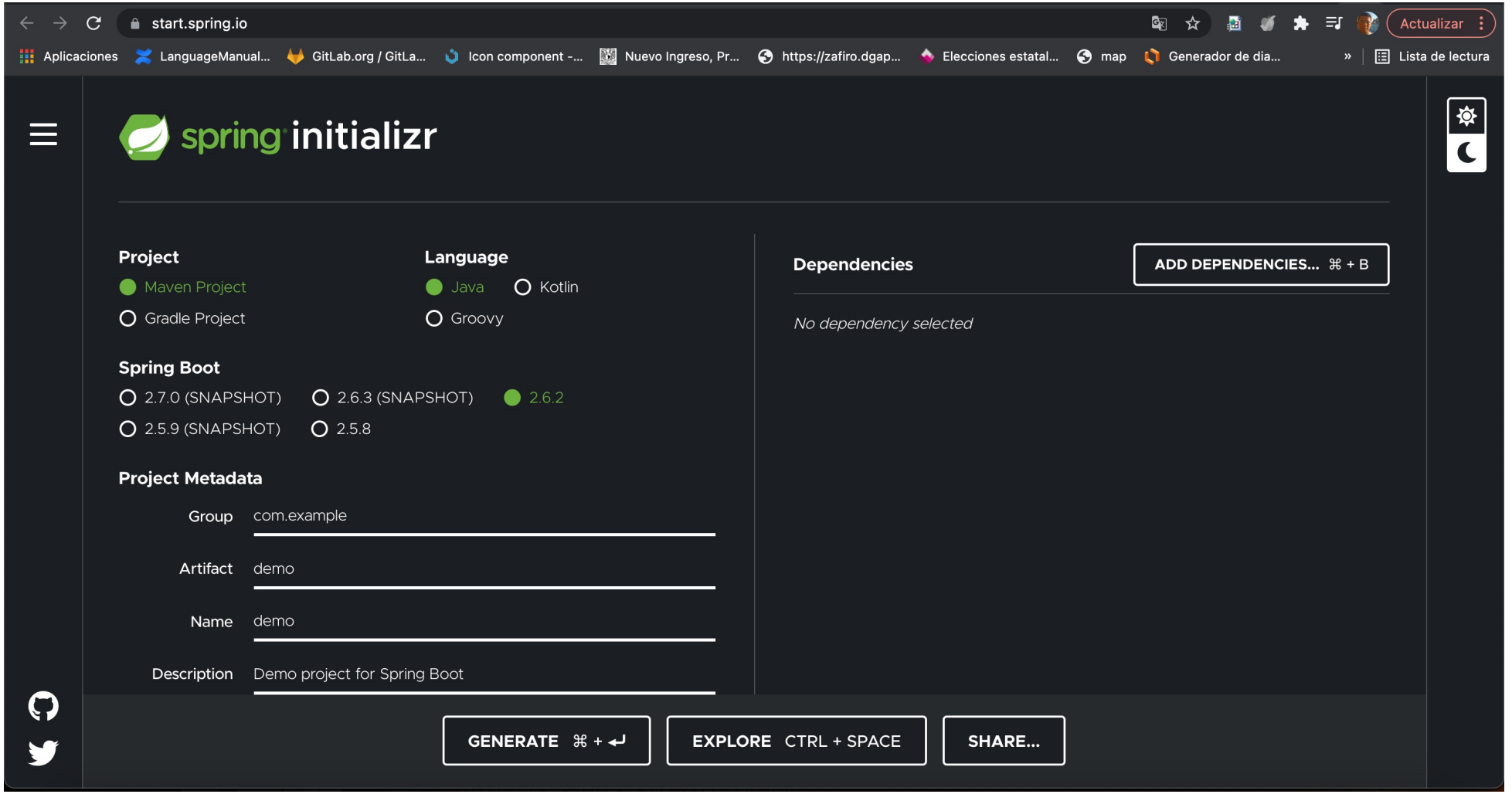
Spring Data



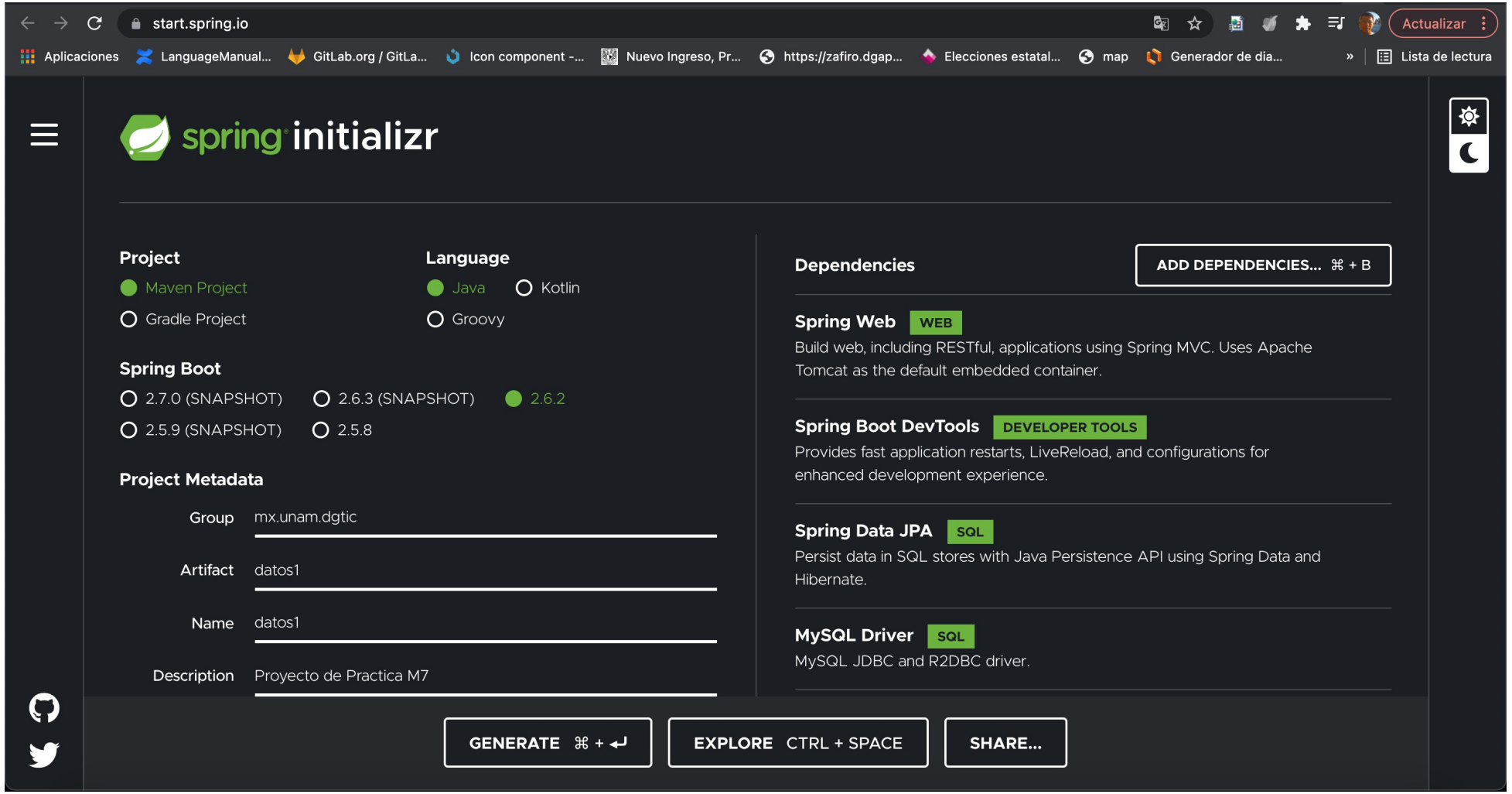
Spring Data Configuración

- Spring Initializr
  - Es una aplicación web que puede generar una estructura de proyecto Spring Boot
  - https://start.spring.io/

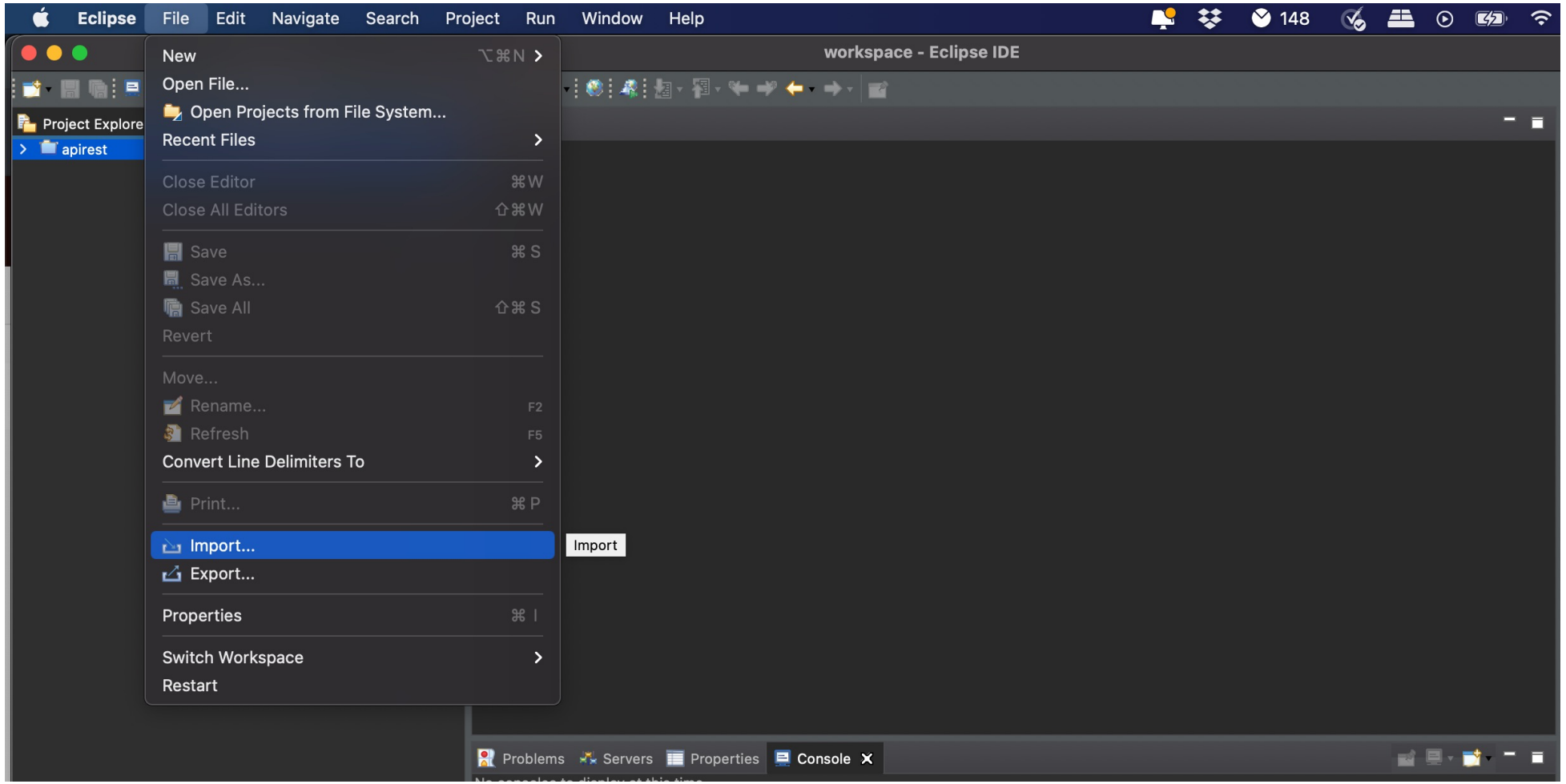
Spring Data Configuración



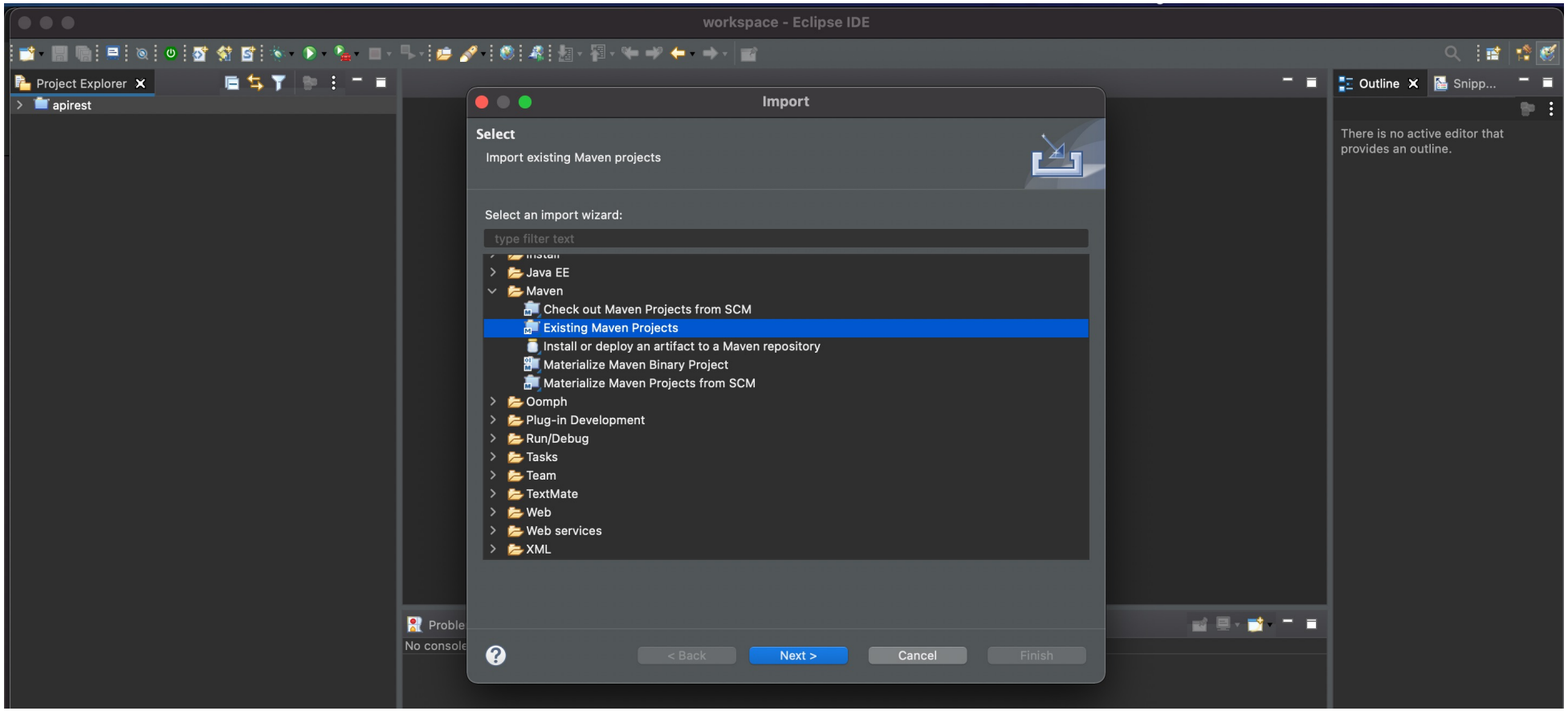
Spring Data Configuración



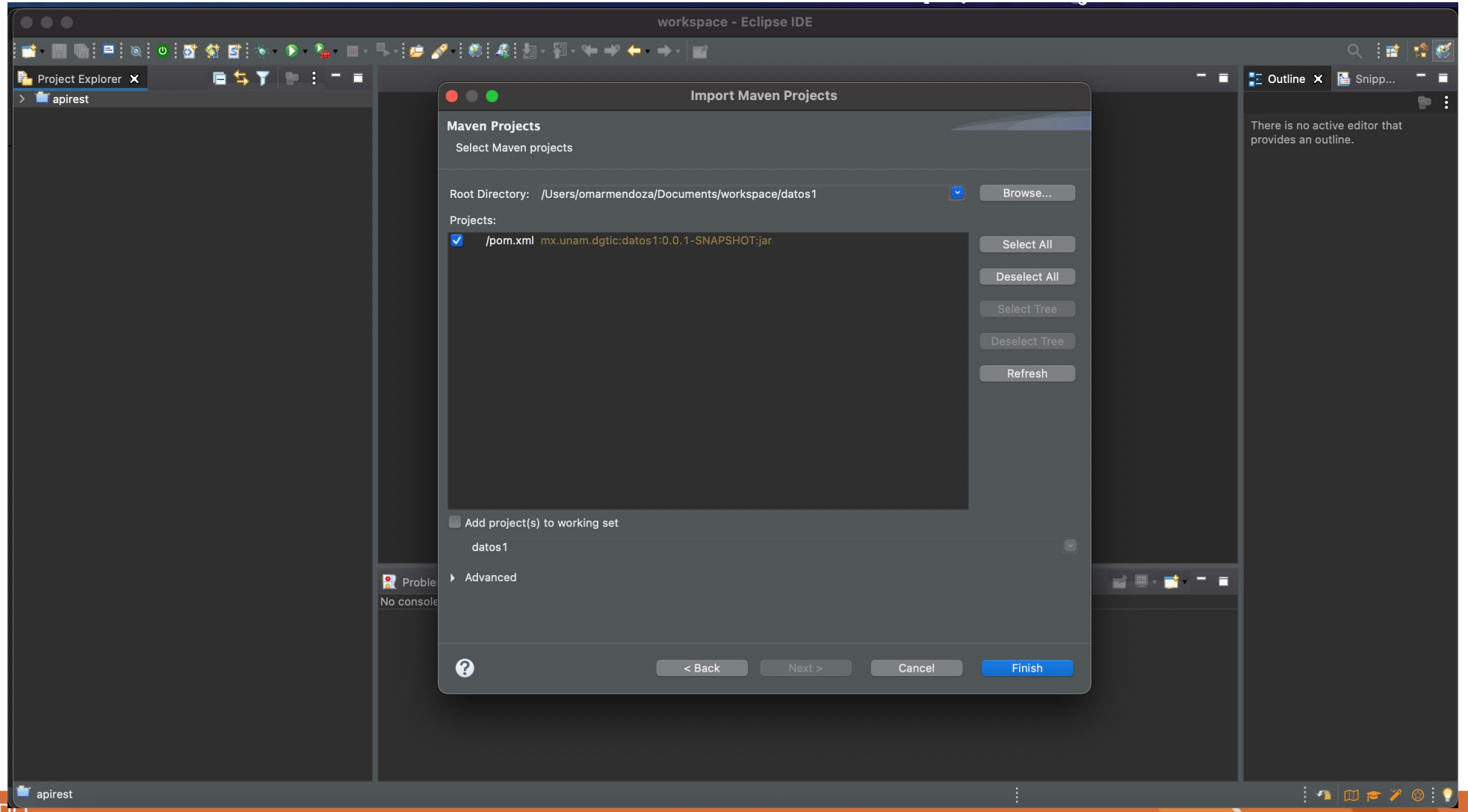
Spring Data Configuración



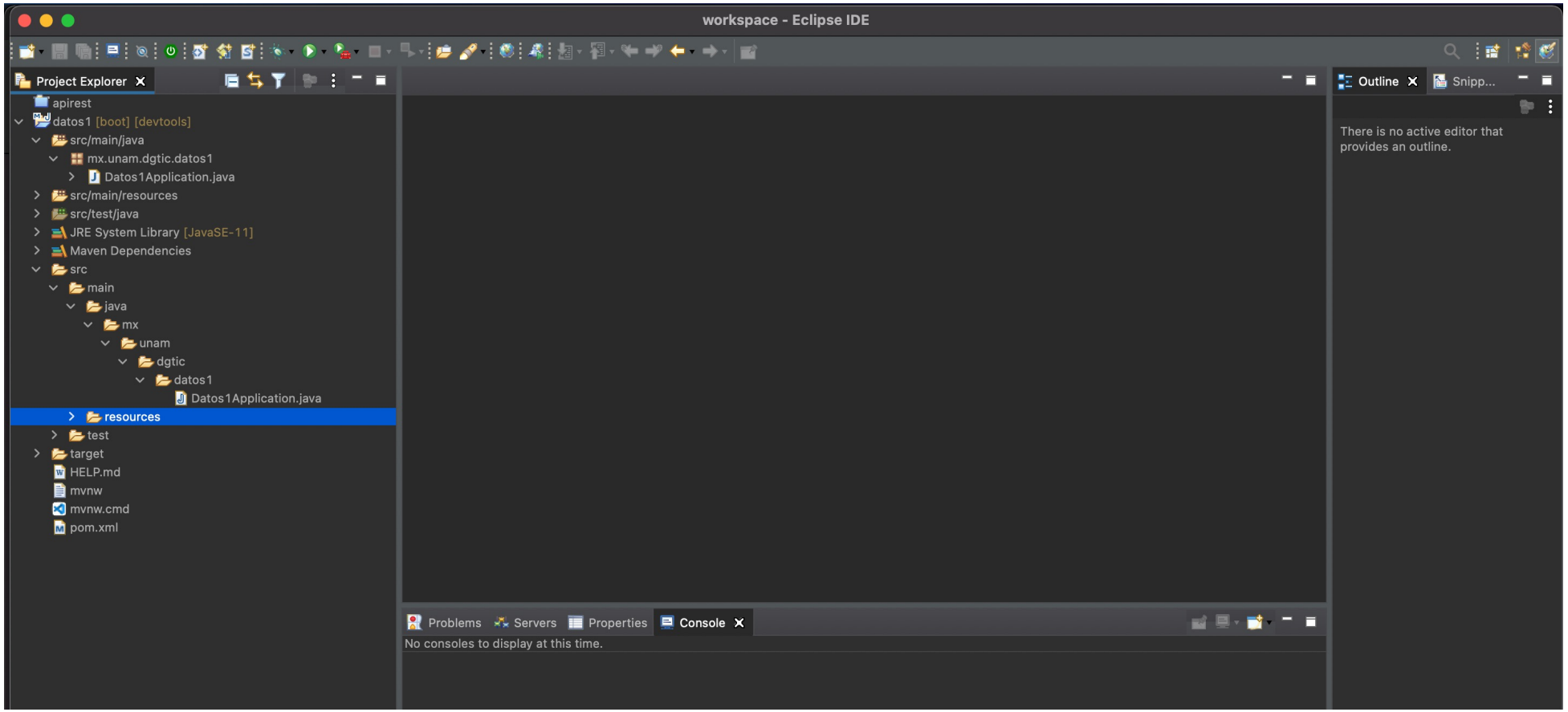
Spring Data Configuración



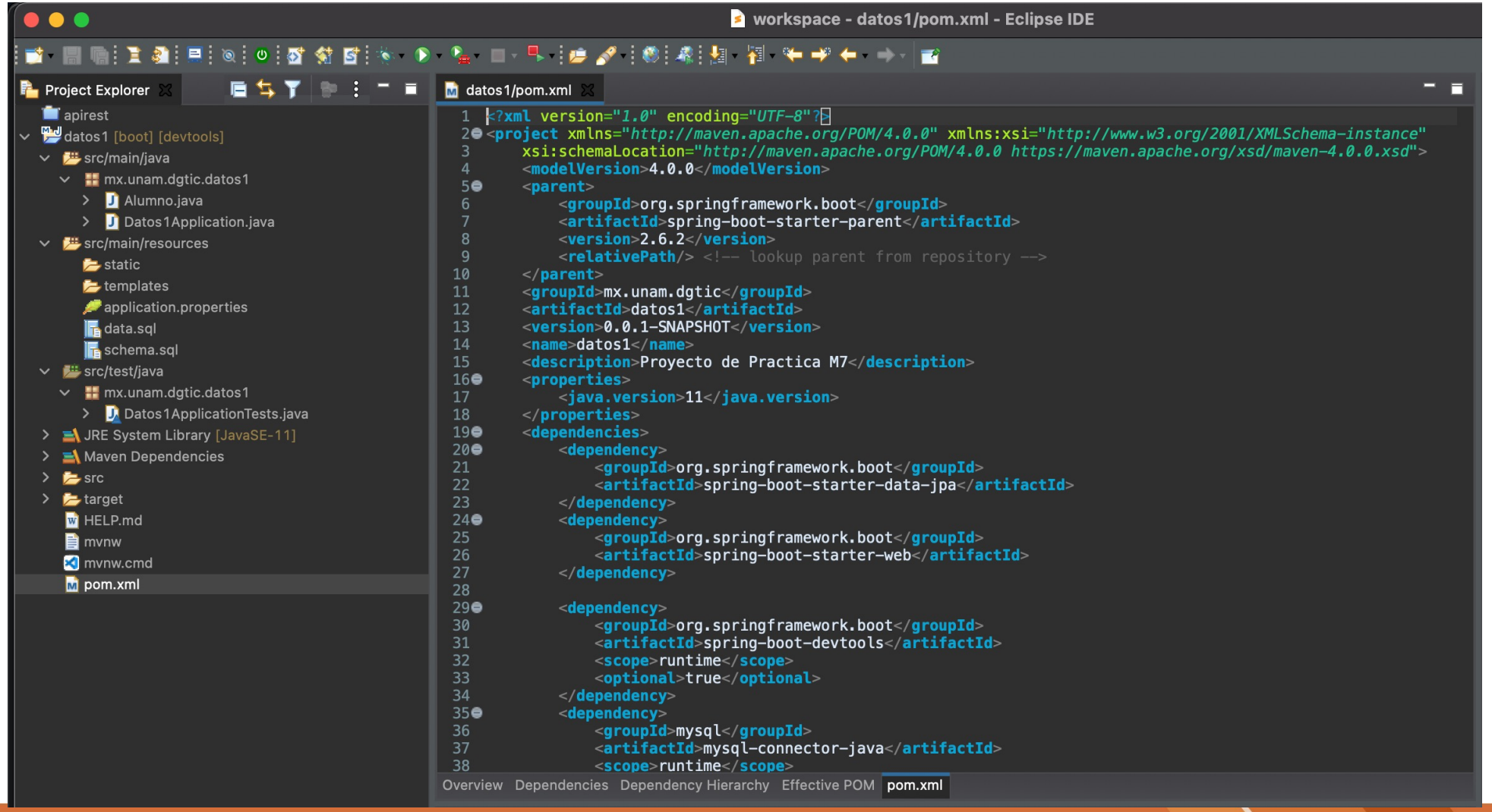
Spring Data Configuración



Spring Data Configuración



pom.xml


workspace - datos1/pom.xml - Eclipse IDE
Project Explorer
apirest
datos1 [boot] [devtools]
src/main/java
mx.unam.dgtic.datos1
Alumno.java
Datos1Application.java
src/main/resources
static
templates
application.properties
data.sql
schema.sql
src/test/java
mx.unam.dgtic.datos1
Datos1ApplicationTests.java
JRE System Library [JavaSE-11]
Maven Dependencies
src
target
HELP.md
mvnw
mvnw.cmd
pom.xml
datos1/pom.xml
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<parent>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-parent</artifactId>
<version>2.6.2</version>
<relativePath/> <!-- lookup parent from repository -->
</parent>
<groupId>mx.unam.dgtic</groupId>
<artifactId>datos1</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>datos1</name>
<description>Proyecto de Practica M7</description>
<properties>
<java.version>11</java.version>
</properties>
<dependencies>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-devtools</artifactId>
<scope>runtime</scope>
<optional>true</optional>
</dependency>
<dependency>
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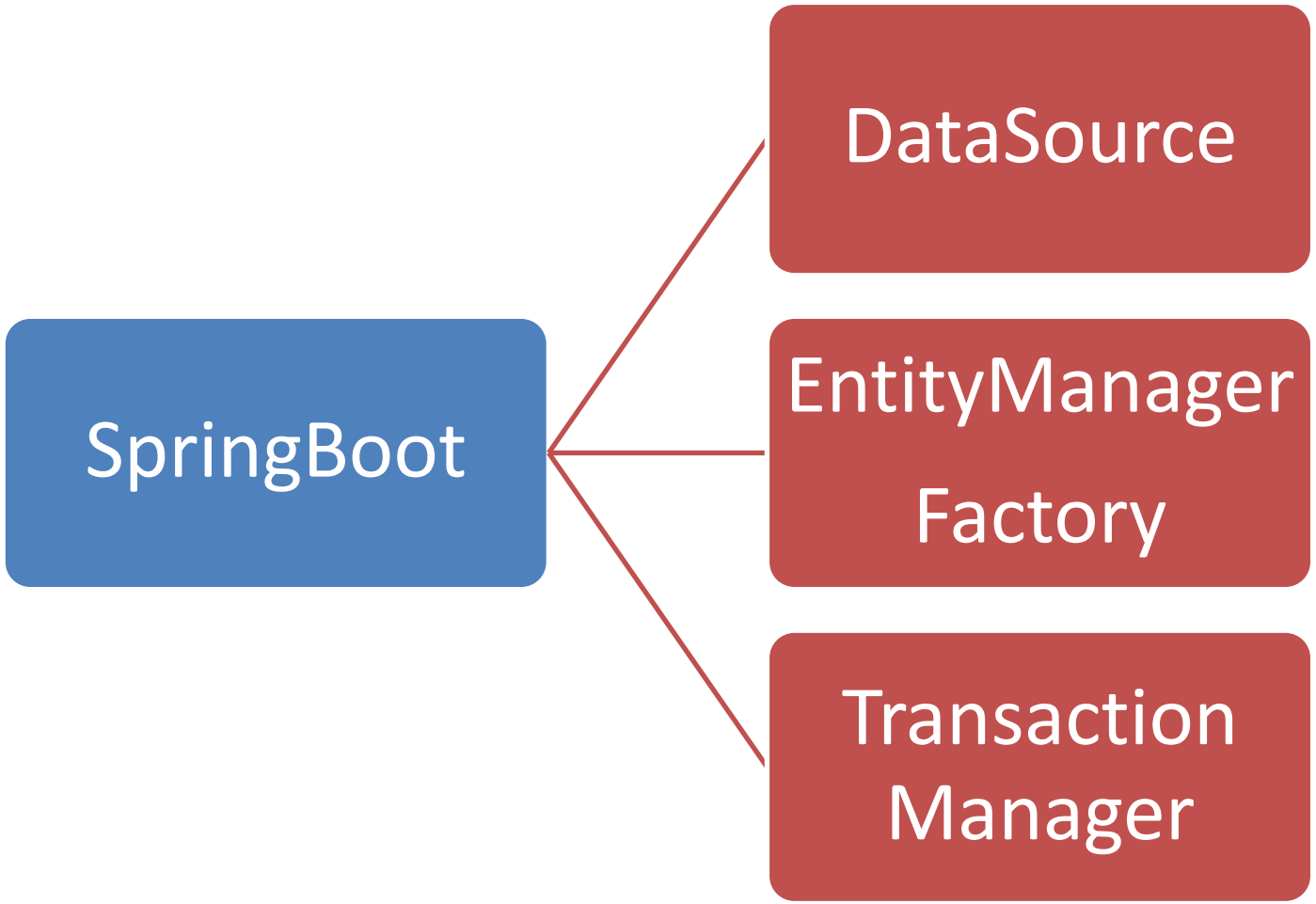
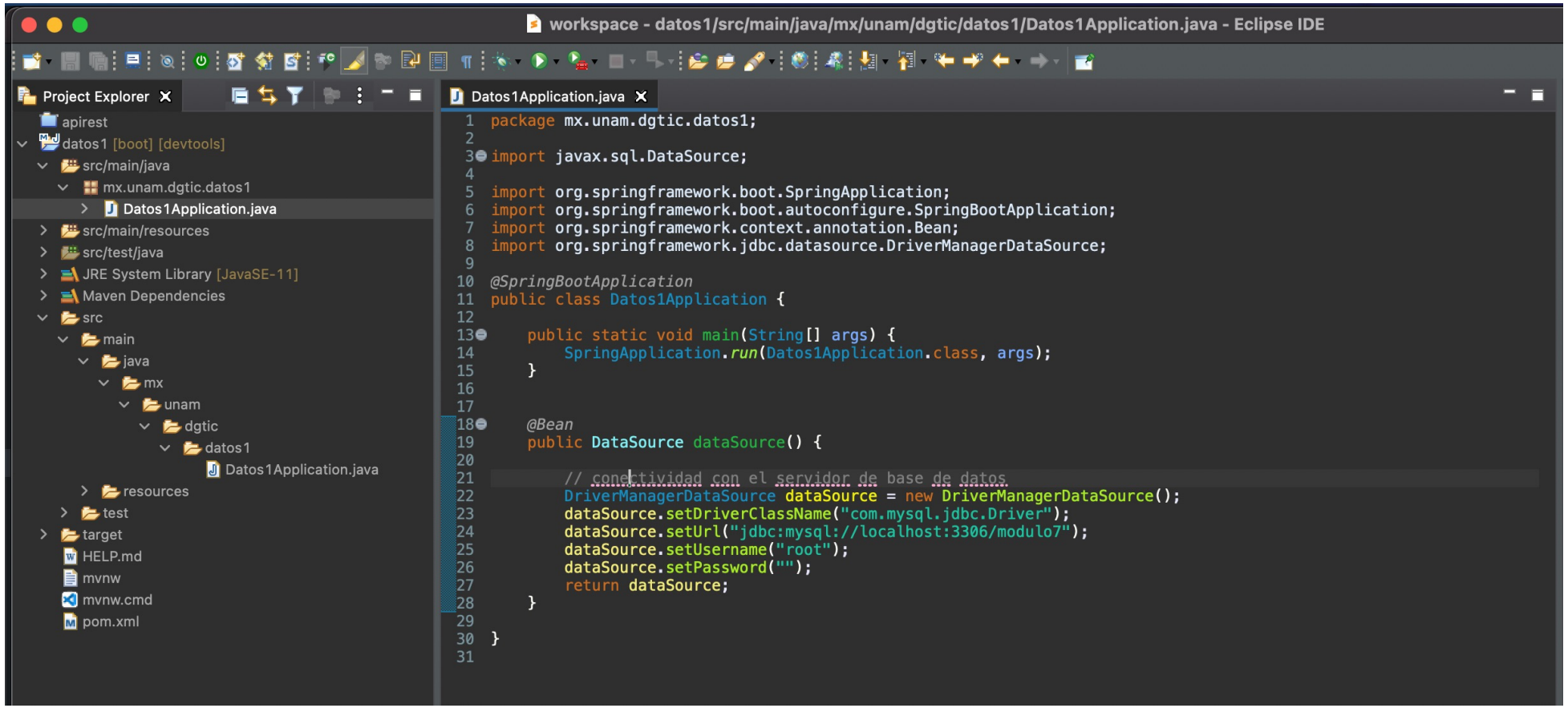
<artifactId>mysql-connector-java</artifactId>
<scope>runtime</scope>
Overview
Dependencies
Dependency Hierarchy
Effective POM
pom.xml

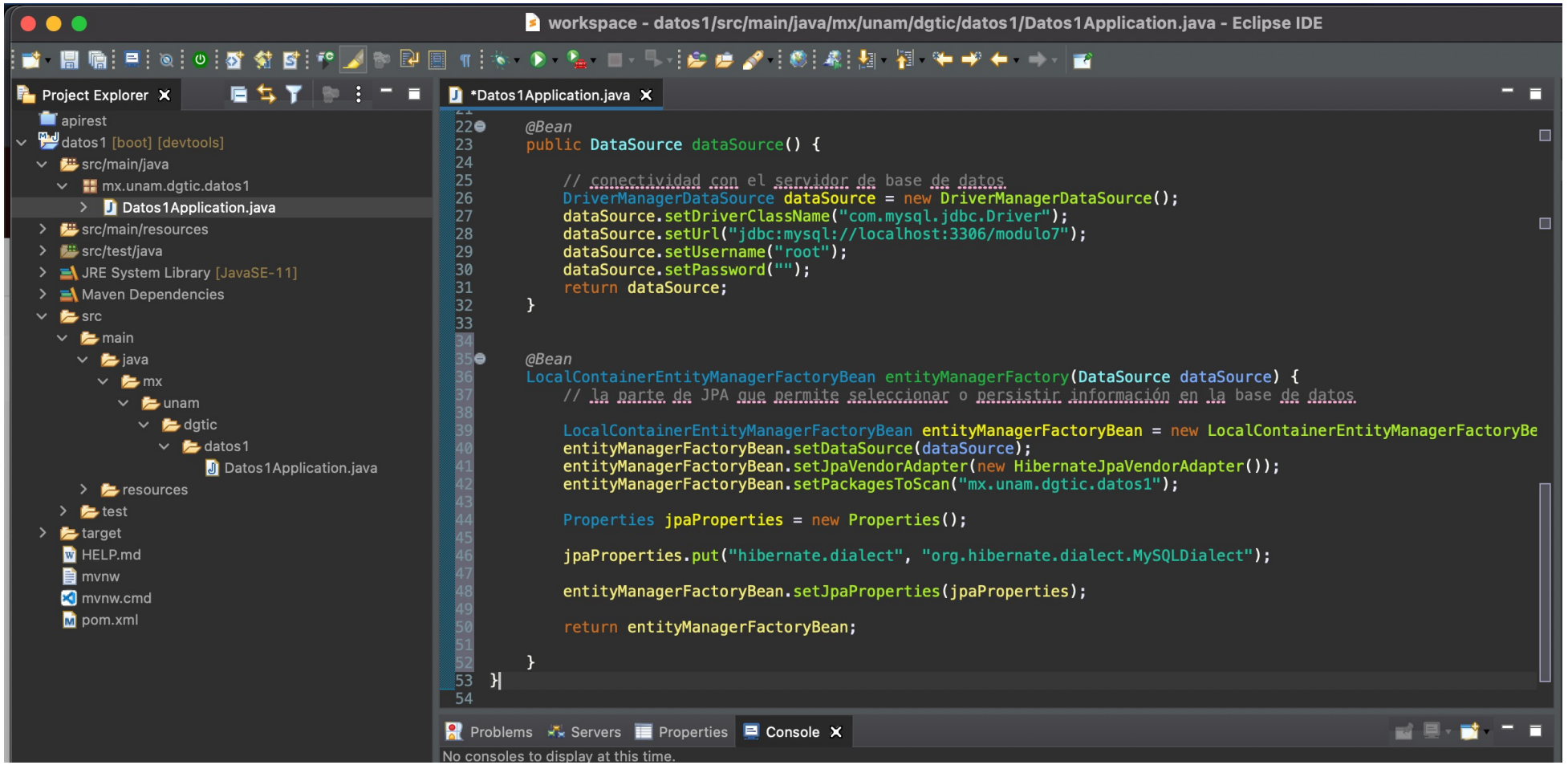
Spring Data


SpringBoot
DataSource
EntityManager Factory
Transaction Manager

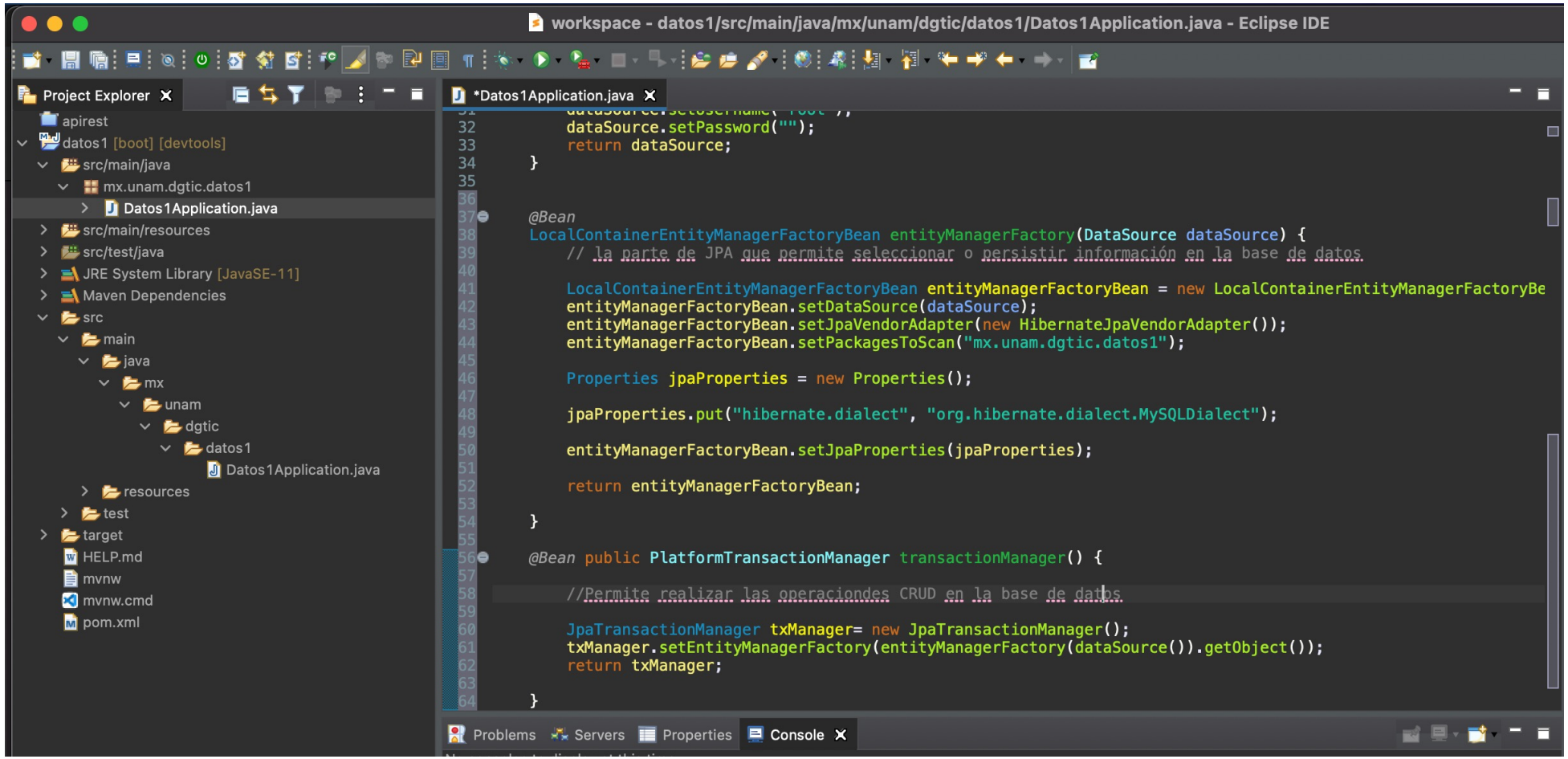
Agregar DataSource



Agregar EntityManagerFactory

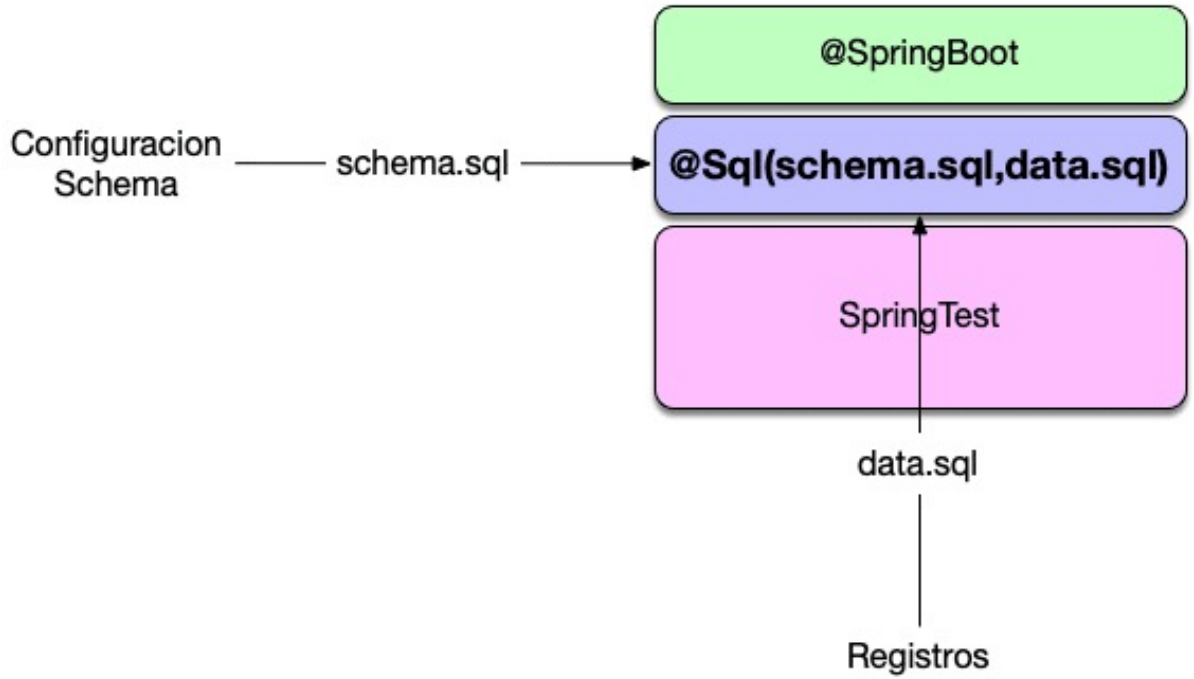


Agregar TransactionManager

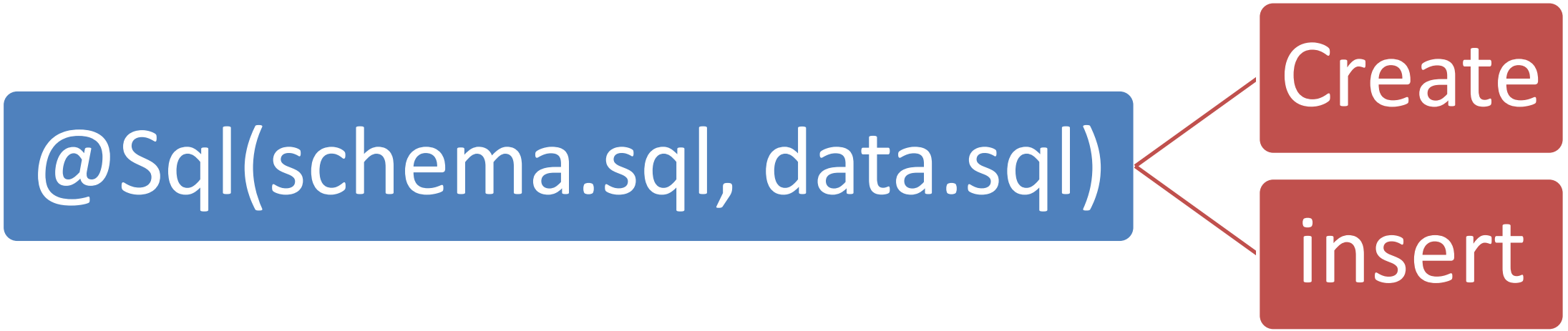


@Sql

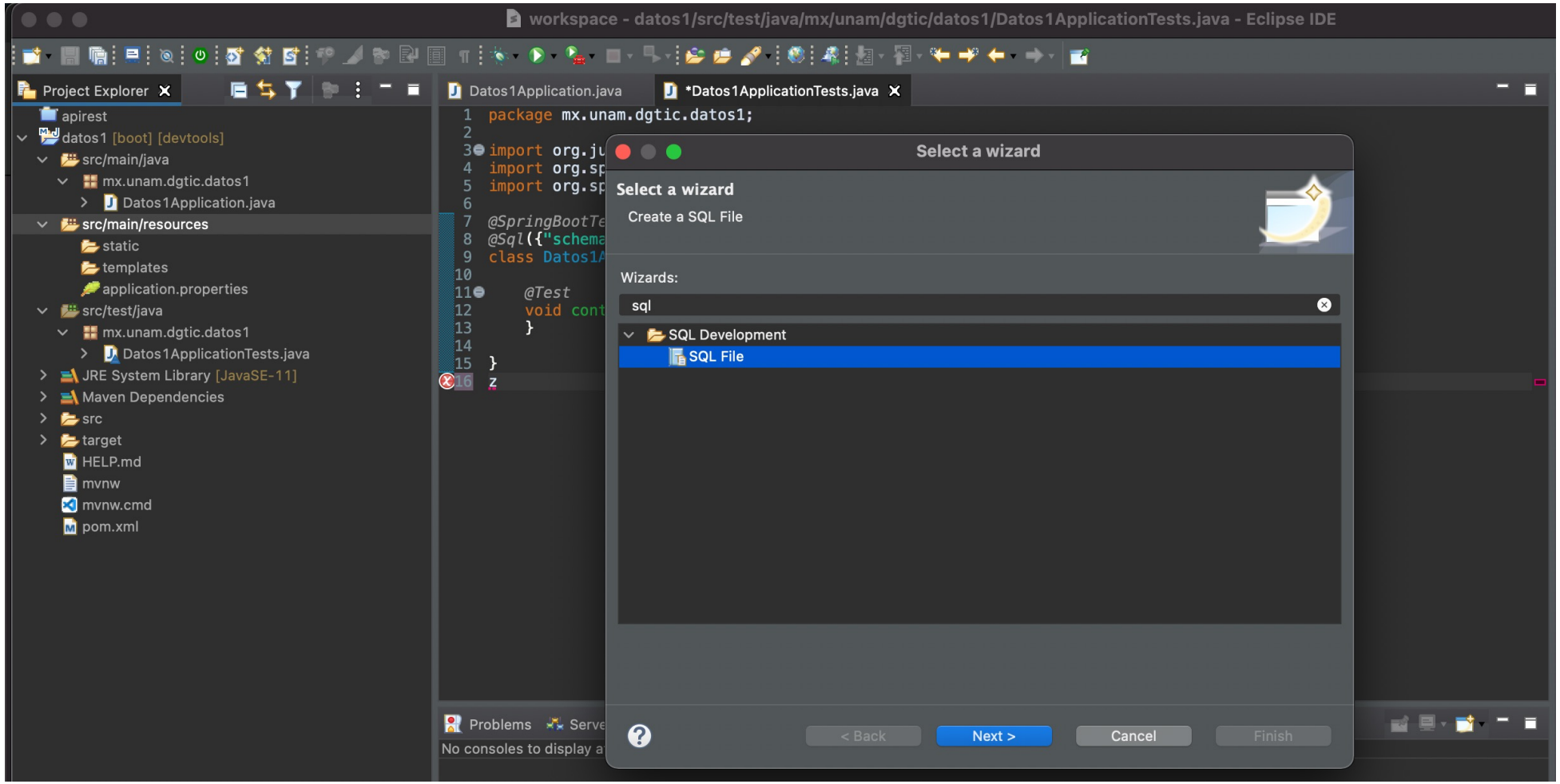
- A nivel de pruebas unitarias se dispone de la anotación ***@Sql*** que permite definir como se puede cargar de forma automática información en la base de datos.



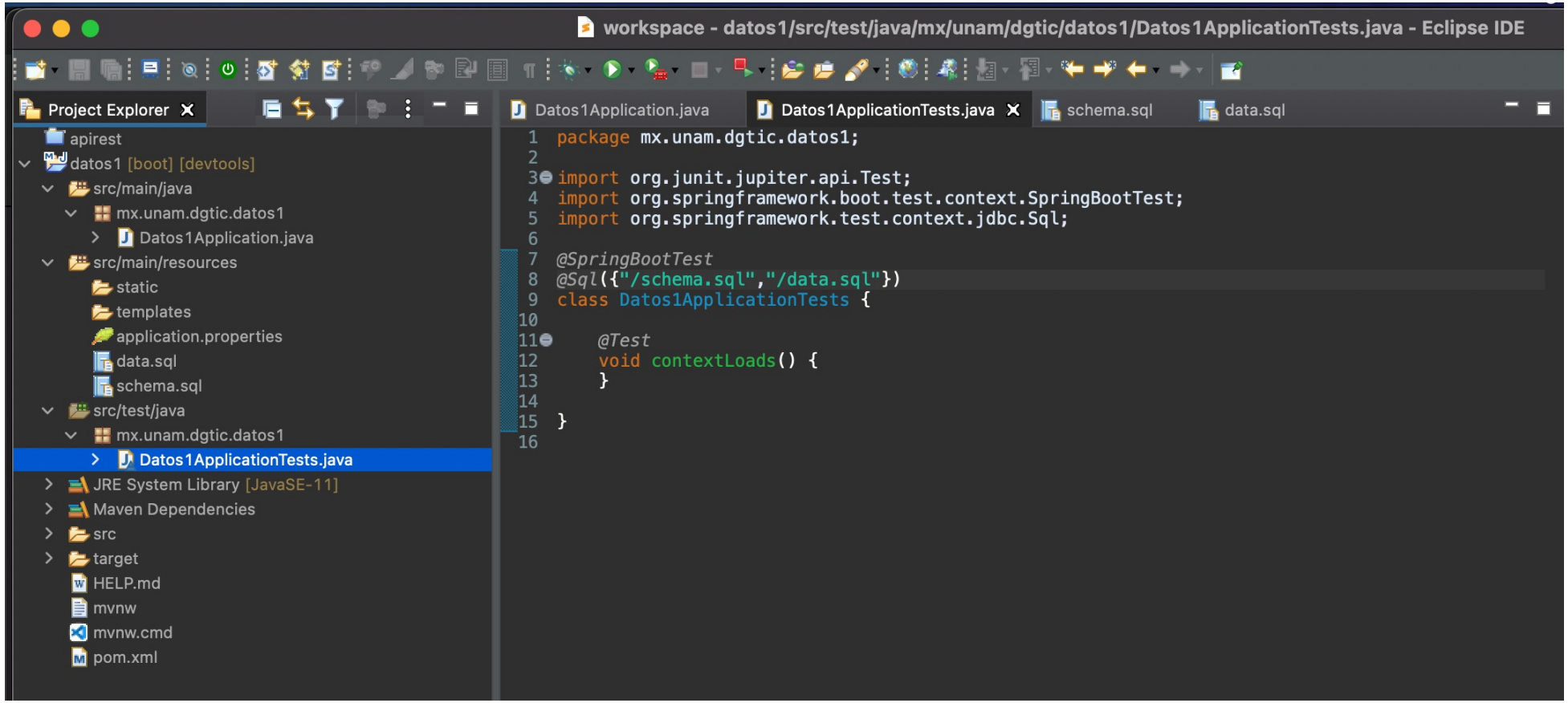
@Sql



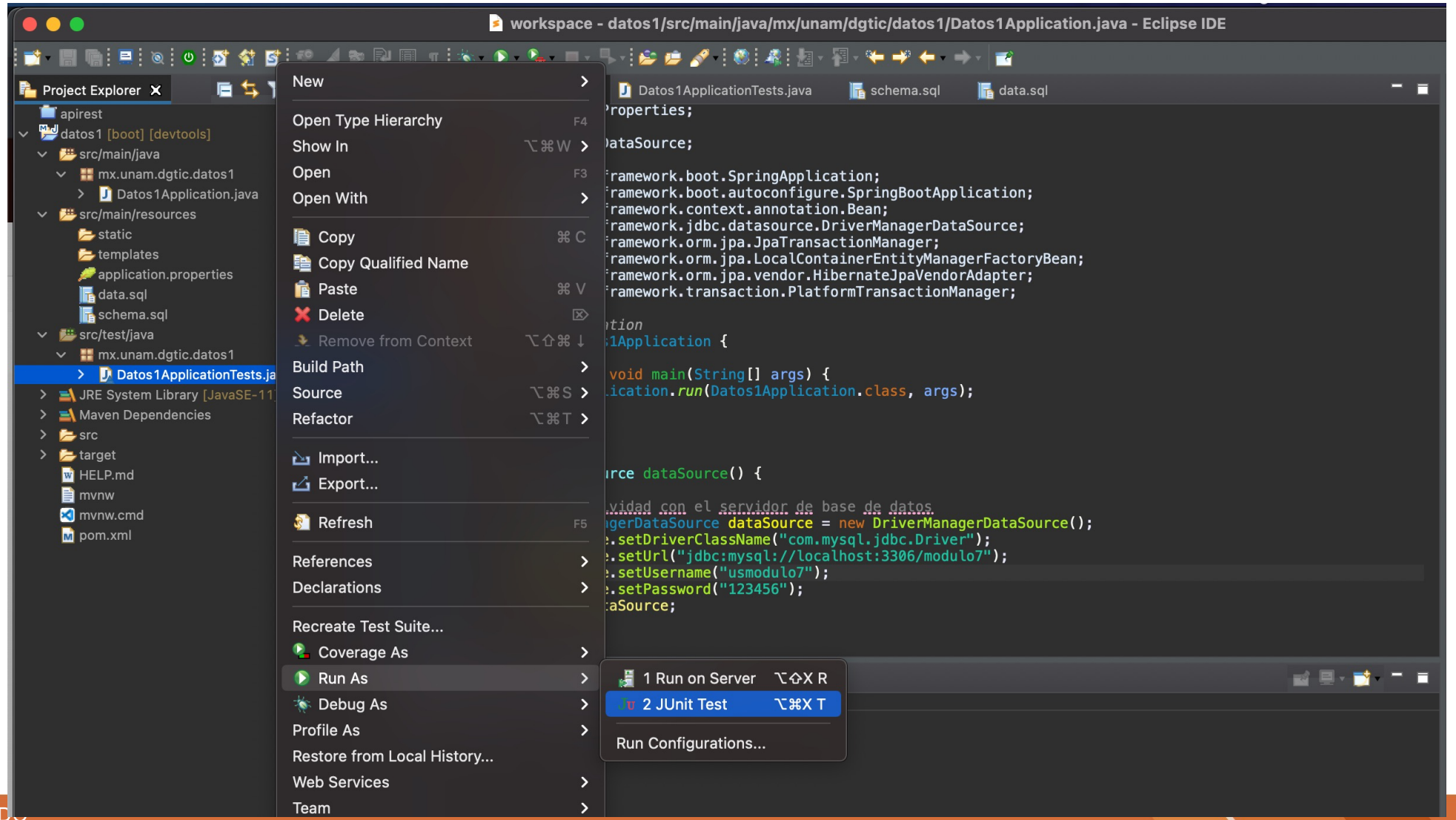
Agregar archivos sql



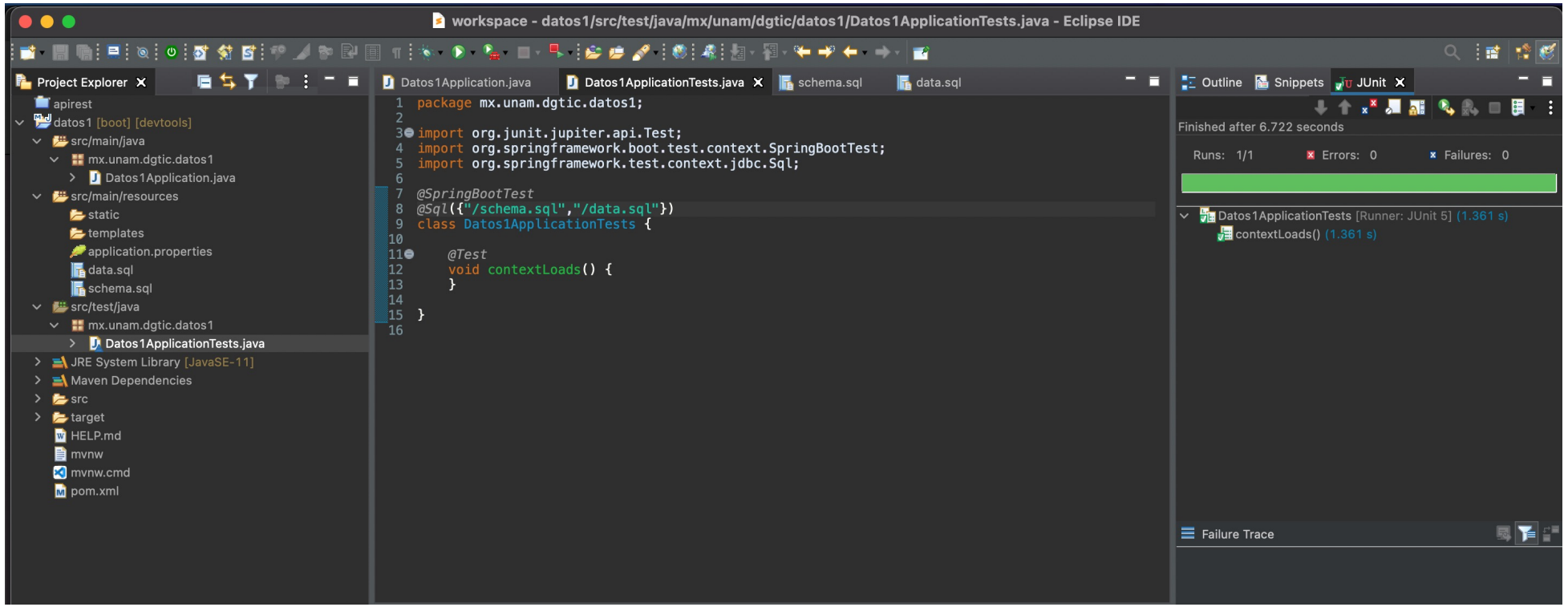
Definir datos para prueba



Ejecutar Test



Ejecutar Test



Contacto

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