

Francisco Williams Jiménez Hernández

Práctica 3

1. Búsqueda de alumnos por nombre: Consulta parametrizada

```
Run M803_01ConsultasDerivadasTests.buscarPorNombrePa... x
Tests passed: 4 of 4 tests - 961 ms

2024-09-27T17:56:42.563-05:00 INFO 10384 --- [M800] [main] .s.d.r.c.RepositoryConfigurati
2024-09-27T17:56:42.636-05:00 INFO 10384 --- [M800] [main] .s.d.r.c.RepositoryConfigurati
2024-09-27T17:56:43.316-05:00 INFO 10384 --- [M800] [main] o.hibernate.jpa.internal.util.
2024-09-27T17:56:43.426-05:00 INFO 10384 --- [M800] [main] org.hibernate.Version
2024-09-27T17:56:43.483-05:00 INFO 10384 --- [M800] [main] o.h.c.internal.RegionFactoryIn
2024-09-27T17:56:44.054-05:00 INFO 10384 --- [M800] [main] o.s.o.j.p.SpringPersistenceUni
2024-09-27T17:56:44.145-05:00 WARN 10384 --- [M800] [main] org.hibernate.orm.deprecation
2024-09-27T17:56:45.288-05:00 INFO 10384 --- [M800] [main] o.h.e.t.j.p.i.JtaPlatformIniti
2024-09-27T17:56:45.292-05:00 INFO 10384 --- [M800] [main] j.LocalContainerEntityManagerF
2024-09-27T17:56:45.521-05:00 WARN 10384 --- [M800] [main] JpaBaseConfiguration$JpaWebCor
2024-09-27T17:56:46.394-05:00 INFO 10384 --- [M800] [main] m.u.d.M803_01ConsultasDerivada

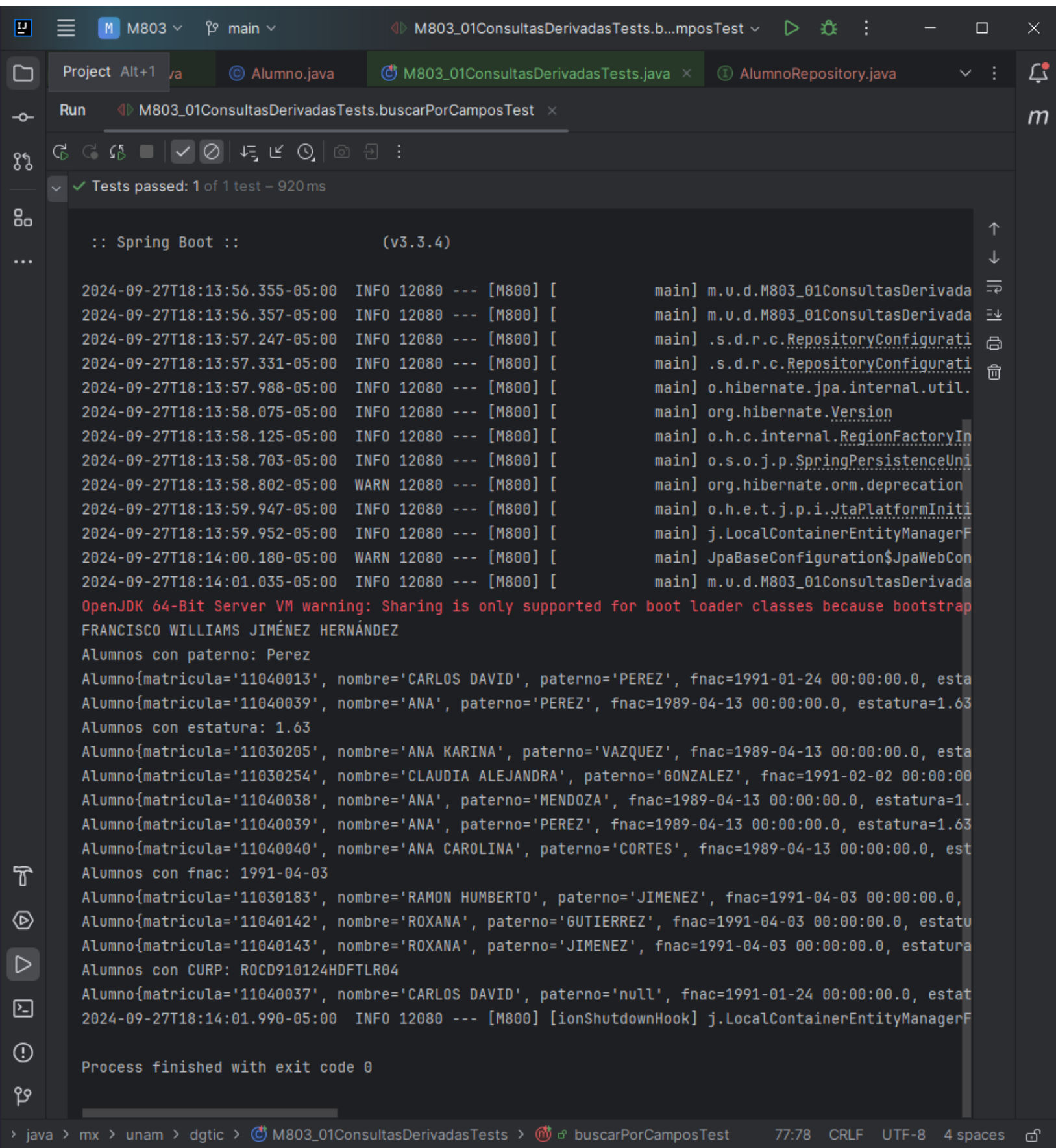
OpenJDK 64-Bit Server VM warning: Sharing is only supported for boot loader classes because bootstrap
FRANCISCO WILLIAMS JIMÉNEZ HERNÁNDEZ
Buscar alumnos por nombre: Carlos David
Número de alumnos con nombre Carlos David: 5
Alumno{matricula='11030180', nombre='CARLOS DAVID', paterno='GUTIERREZ', fnac=1991-01-24 00:00:00.0,
Alumno{matricula='11040013', nombre='CARLOS DAVID', paterno='PEREZ', fnac=1991-01-24 00:00:00.0, esta
Alumno{matricula='11040029', nombre='CARLOS DAVID', paterno='MENDOZA', fnac=1991-01-24 00:00:00.0, es
Alumno{matricula='11040037', nombre='CARLOS DAVID', paterno='null', fnac=1991-01-24 00:00:00.0, estat
Alumno{matricula='11040164', nombre='CARLOS DAVID', paterno='GONZALEZ', fnac=1991-01-24 00:00:00.0, e
FRANCISCO WILLIAMS JIMÉNEZ HERNÁNDEZ
Buscar alumnos por nombre: Ana
Número de alumnos con nombre Ana: 2
Alumno{matricula='11040038', nombre='ANA', paterno='MENDOZA', fnac=1989-04-13 00:00:00.0, estatura=1.
Alumno{matricula='11040039', nombre='ANA', paterno='PEREZ', fnac=1989-04-13 00:00:00.0, estatura=1.63
FRANCISCO WILLIAMS JIMÉNEZ HERNÁNDEZ
Buscar alumnos por nombre: Luis
Número de alumnos con nombre Luis: 0
FRANCISCO WILLIAMS JIMÉNEZ HERNÁNDEZ
Buscar alumnos por nombre: María
Número de alumnos con nombre María: 0
17:56:40.881 [main] INFO org.springframework.test.context.support.AnnotationConfigContextLoaderUtils
17:56:41.055 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper -- F
2024-09-27T17:56:47.404-05:00 INFO 10384 --- [M800] [ionShutdownHook] j.LocalContainerEntityManagerF

Process finished with exit code 0
```

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Práctica 3

2. Búsqueda de alumnos por campos



The screenshot shows an IDE window with the following elements:

- Project Explorer:** Shows the project structure with files like `Alumno.java`, `M803_01ConsultasDerivadasTests.java`, and `AlumnoRepository.java`.
- Run Bar:** Displays the test name `M803_01ConsultasDerivadasTests.buscarPorCamposTest` and indicates that 1 of 1 tests passed in 920 ms.
- Output Console:** Contains the following text:

```
:: Spring Boot :: (v3.3.4)

2024-09-27T18:13:56.355-05:00 INFO 12080 --- [M800] [main] m.u.d.M803_01ConsultasDerivada
2024-09-27T18:13:56.357-05:00 INFO 12080 --- [M800] [main] m.u.d.M803_01ConsultasDerivada
2024-09-27T18:13:57.247-05:00 INFO 12080 --- [M800] [main] .s.d.r.c.RepositoryConfigurati
2024-09-27T18:13:57.331-05:00 INFO 12080 --- [M800] [main] .s.d.r.c.RepositoryConfigurati
2024-09-27T18:13:57.988-05:00 INFO 12080 --- [M800] [main] o.hibernate.jpa.internal.util.
2024-09-27T18:13:58.075-05:00 INFO 12080 --- [M800] [main] org.hibernate.Version
2024-09-27T18:13:58.125-05:00 INFO 12080 --- [M800] [main] o.h.c.internal.RegionFactoryIn
2024-09-27T18:13:58.703-05:00 INFO 12080 --- [M800] [main] o.s.o.j.p.SpringPersistenceUni
2024-09-27T18:13:58.802-05:00 WARN 12080 --- [M800] [main] org.hibernate.orm.deprecation
2024-09-27T18:13:59.947-05:00 INFO 12080 --- [M800] [main] o.h.e.t.j.p.i.JtaPlatformIniti
2024-09-27T18:13:59.952-05:00 INFO 12080 --- [M800] [main] j.LocalContainerEntityManagerF
2024-09-27T18:14:00.180-05:00 WARN 12080 --- [M800] [main] JpaBaseConfiguration$JpaWebCon
2024-09-27T18:14:01.035-05:00 INFO 12080 --- [M800] [main] m.u.d.M803_01ConsultasDerivada

OpenJDK 64-Bit Server VM warning: Sharing is only supported for boot loader classes because bootstrap
FRANCISCO WILLIAMS JIMÉNEZ HERNÁNDEZ
Alumnos con paterno: Perez
Alumno{matricula='11040013', nombre='CARLOS DAVID', paterno='PEREZ', fnac=1991-01-24 00:00:00.0, esta
Alumno{matricula='11040039', nombre='ANA', paterno='PEREZ', fnac=1989-04-13 00:00:00.0, estatura=1.63
Alumnos con estatura: 1.63
Alumno{matricula='11030205', nombre='ANA KARINA', paterno='VAZQUEZ', fnac=1989-04-13 00:00:00.0, esta
Alumno{matricula='11030254', nombre='CLAUDIA ALEJANDRA', paterno='GONZALEZ', fnac=1991-02-02 00:00:00
Alumno{matricula='11040038', nombre='ANA', paterno='MENDOZA', fnac=1989-04-13 00:00:00.0, estatura=1.
Alumno{matricula='11040039', nombre='ANA', paterno='PEREZ', fnac=1989-04-13 00:00:00.0, estatura=1.63
Alumno{matricula='11040040', nombre='ANA CAROLINA', paterno='CORTES', fnac=1989-04-13 00:00:00.0, est
Alumnos con fnac: 1991-04-03
Alumno{matricula='11030183', nombre='RAMON HUMBERTO', paterno='JIMENEZ', fnac=1991-04-03 00:00:00.0,
Alumno{matricula='11040142', nombre='ROXANA', paterno='GUTIERREZ', fnac=1991-04-03 00:00:00.0, estatu
Alumno{matricula='11040143', nombre='ROXANA', paterno='JIMENEZ', fnac=1991-04-03 00:00:00.0, estatura
Alumnos con CURP: R0CD910124HDFTLR04
Alumno{matricula='11040037', nombre='CARLOS DAVID', paterno='null', fnac=1991-01-24 00:00:00.0, estat
2024-09-27T18:14:01.990-05:00 INFO 12080 --- [M800] [ionShutdownHook] j.LocalContainerEntityManagerF

Process finished with exit code 0
```
- Bottom Bar:** Shows the file path `> java > mx > unam > dgtic > M803_01ConsultasDerivadasTests > buscarPorCamposTest` and settings like `77:78 CRLF UTF-8 4 spaces`.

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Práctica 3

3. Búsqueda de alumnos con operadores lógicos: AND y OR

The screenshot shows an IDE window with several tabs open: ApplicationTests.java, Alumno.java, M803_01ConsultasDerivadasTests.java, and AlumnoRepository.java. The Run tab is active, displaying the output of the test execution.

Run M803_01ConsultasDerivadasTests.buscarAndOrTest

✓ Tests passed: 1 of 1 test - 902 ms

```
.   ____          _            __ _ _
/\ / ___'_  _  _/_/_/   ___ \__\_ /_\ /
( )\___) | '_| |_/_/_/   ___ \| |_/ /_\ /
 \/ ____)|_| |_'|_|/  ___ \| || |_/ __ \|
'  _____)_||_     |___ \|__| |__|/____/
=====|_|=====|___/=/_/_/_/_/

:: Spring Boot ::                (v3.3.4)

2024-09-27T19:02:19.303-05:00 INFO 10472 --- [M800] [main] m.u.d.M803_01ConsultasDerivada
2024-09-27T19:02:19.304-05:00 INFO 10472 --- [M800] [main] m.u.d.M803_01ConsultasDerivada
2024-09-27T19:02:20.181-05:00 INFO 10472 --- [M800] [main] .s.d.r.c.RepositoryConfigurati
2024-09-27T19:02:20.272-05:00 INFO 10472 --- [M800] [main] .s.d.r.c.RepositoryConfigurati
2024-09-27T19:02:20.942-05:00 INFO 10472 --- [M800] [main] o.hibernate.jpa.internal.util.
2024-09-27T19:02:21.030-05:00 INFO 10472 --- [M800] [main] org.hibernate.Version
2024-09-27T19:02:21.087-05:00 INFO 10472 --- [M800] [main] o.h.c.internal.RegionFactoryIn
2024-09-27T19:02:21.689-05:00 INFO 10472 --- [M800] [main] o.s.o.j.p.SpringPersistenceUni
2024-09-27T19:02:21.774-05:00 WARN 10472 --- [M800] [main] org.hibernate.orm.deprecation
2024-09-27T19:02:22.935-05:00 INFO 10472 --- [M800] [main] o.h.e.t.j.p.i.JtaPlatformIniti
2024-09-27T19:02:22.940-05:00 INFO 10472 --- [M800] [main] j.LocalContainerEntityManagerF
2024-09-27T19:02:23.173-05:00 WARN 10472 --- [M800] [main] JpaBaseConfiguration$JpaWebCon
2024-09-27T19:02:24.121-05:00 INFO 10472 --- [M800] [main] m.u.d.M803_01ConsultasDerivada
OpenJDK 64-Bit Server VM warning: Sharing is only supported for boot loader classes because bootstrap
FRANCISCO WILLIAMS JIMÉNEZ HERNÁNDEZ
Carlos David Perez
Existen 6 Alumnos
Alumno{matricula='11030180', nombre='CARLOS DAVID', paterno='GUTIERREZ', fnac=1991-01-24 00:00:00.0,
Alumno{matricula='11040013', nombre='CARLOS DAVID', paterno='PEREZ', fnac=1991-01-24 00:00:00.0, esta
Alumno{matricula='11040029', nombre='CARLOS DAVID', paterno='MENDOZA', fnac=1991-01-24 00:00:00.0, es
Alumno{matricula='11040037', nombre='CARLOS DAVID', paterno='null', fnac=1991-01-24 00:00:00.0, estat
Alumno{matricula='11040039', nombre='ANA', paterno='PEREZ', fnac=1989-04-13 00:00:00.0, estatura=1.63
Alumno{matricula='11040164', nombre='CARLOS DAVID', paterno='GONZALEZ', fnac=1991-01-24 00:00:00.0, e
2024-09-27T19:02:25.058-05:00 INFO 10472 --- [M800] [ionShutdownHook] j.LocalContainerEntityManagerF

Process finished with exit code 0
```


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Práctica 3

4. Búsqueda de alumnos por nombre: limitar y ordenamiento ASC y DESC

```
ApplicationTests.java  Alumno.java  M803_01ConsultasDerivadasTests.java  AlumnoRepository.java
Run  M803_01ConsultasDerivadasTests.buscarPorNombreOr...
Tests passed: 1 of 1 test - 977 ms
2024-09-27T19:01:41.307-05:00 INFO 10552 --- [M800] [main] o.hibernate.jpa.internal.util.
2024-09-27T19:01:41.393-05:00 INFO 10552 --- [M800] [main] org.hibernate.Version
2024-09-27T19:01:41.444-05:00 INFO 10552 --- [M800] [main] o.h.c.internal.RegionFactoryIn
2024-09-27T19:01:42.002-05:00 INFO 10552 --- [M800] [main] o.s.o.j.p.SpringPersistenceUni
2024-09-27T19:01:42.091-05:00 WARN 10552 --- [M800] [main] org.hibernate.orm.deprecation
2024-09-27T19:01:43.198-05:00 INFO 10552 --- [M800] [main] o.h.e.t.j.p.i.JtaPlatformIniti
2024-09-27T19:01:43.203-05:00 INFO 10552 --- [M800] [main] j.LocalContainerEntityManagerF
2024-09-27T19:01:43.421-05:00 WARN 10552 --- [M800] [main] JpaBaseConfiguration$JpaWebCon
2024-09-27T19:01:44.361-05:00 INFO 10552 --- [M800] [main] m.u.d.M803_01ConsultasDerivada
OpenJDK 64-Bit Server VM warning: Sharing is only supported for boot loader classes because bootstrap
FRANCISCO WILLIAMS JIMÉNEZ HERNÁNDEZ
Buscar alumnos por nombre: Carlos David
Número de alumnos con nombre Carlos David: 5
Orden Ascendente
Alumno{matricula='11040037', nombre='CARLOS DAVID', paterno='null', fnac=1991-01-24 00:00:00.0, estat
Alumno{matricula='11040164', nombre='CARLOS DAVID', paterno='GONZALEZ', fnac=1991-01-24 00:00:00.0, e
Alumno{matricula='11030180', nombre='CARLOS DAVID', paterno='GUTIERREZ', fnac=1991-01-24 00:00:00.0,
Alumno{matricula='11040029', nombre='CARLOS DAVID', paterno='MENDOZA', fnac=1991-01-24 00:00:00.0, es
Alumno{matricula='11040013', nombre='CARLOS DAVID', paterno='PEREZ', fnac=1991-01-24 00:00:00.0, esta
Orden Descendente
Alumno{matricula='11040013', nombre='CARLOS DAVID', paterno='PEREZ', fnac=1991-01-24 00:00:00.0, esta
Alumno{matricula='11040029', nombre='CARLOS DAVID', paterno='MENDOZA', fnac=1991-01-24 00:00:00.0, es
Alumno{matricula='11030180', nombre='CARLOS DAVID', paterno='GUTIERREZ', fnac=1991-01-24 00:00:00.0,
Alumno{matricula='11040164', nombre='CARLOS DAVID', paterno='GONZALEZ', fnac=1991-01-24 00:00:00.0, e
Alumno{matricula='11040037', nombre='CARLOS DAVID', paterno='null', fnac=1991-01-24 00:00:00.0, estat
Primero
Alumno{matricula='11030180', nombre='CARLOS DAVID', paterno='GUTIERREZ', fnac=1991-01-24 00:00:00.0,
Primeros 2 ASC
Alumno{matricula='11040037', nombre='CARLOS DAVID', paterno='null', fnac=1991-01-24 00:00:00.0, estat
Alumno{matricula='11040164', nombre='CARLOS DAVID', paterno='GONZALEZ', fnac=1991-01-24 00:00:00.0, e
Primeros 2 DESC
Alumno{matricula='11040013', nombre='CARLOS DAVID', paterno='PEREZ', fnac=1991-01-24 00:00:00.0, esta
Alumno{matricula='11040029', nombre='CARLOS DAVID', paterno='MENDOZA', fnac=1991-01-24 00:00:00.0, es
2024-09-27T19:01:45.379-05:00 INFO 10552 --- [M800] [ionShutdownHook] j.LocalContainerEntityManagerF
Process finished with exit code 0
M803 > src > test > java > mx > unam > dgctic > M803_01ConsultasDerivadasTests 116:1 CRLF UTF-8 4 spaces
```

Francisco Williams Jiménez Hernández

Práctica 3

5. Búsqueda de alumnos por patrón usando LIKE

The screenshot shows an IDE window with a project named 'M803'. The 'Run' tab is active, displaying the results of a test suite 'M803_02ConsultasDerivadasTests.buscarLikeTest'. The test suite passed 9 of 9 tests in 1 second and 266 milliseconds. The tests are listed in a table:

Test Case	Duration
[1] patron=a%, descripcion=Inicia con a	865 ms
[2] patron=%a%, descripcion=Contiene a	55 ms
[3] patron=%a, descripcion=Termina con a	47 ms
[4] patron=___, descripcion=Tres caracteres	41 ms
[5] patron=___a%, descripcion=a en la 4ta pos	39 ms
[6] patron=___a% %, descripcion=a en la 4ta pos y 2 nombres	64 ms
[7] patron=%a_, descripcion=a en la antepenultima pos	76 ms
[8] patron=% %, descripcion=Dos nombres	50 ms
[9] patron=% %a, descripcion=Dos nombres y el segundo termina en a	29 ms

The test results are displayed in a log window, showing the output of the tests. The output for the first test is:

```
7 Nombre Dos nombres y el segundo termina en a % %a
Alumno{matricula='11030205', nombre='ANA KARINA', paterno='VAZQUEZ', fnac=1989-04-13 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030218', nombre='MARIA FERNANDA', paterno='FLORES', fnac=1991-01-10 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030254', nombre='CLAUDIA ALEJANDRA', paterno='GONZALEZ', fnac=1991-02-02 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040040', nombre='ANA CAROLINA', paterno='CORTES', fnac=1989-04-13 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040055', nombre='CARMINA ANDREA', paterno='CORTES', fnac=1989-09-02 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040076', nombre='ANA CRISTINA', paterno='null', fnac=1988-09-20 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040159', nombre='KARLA ALEJANDRA', paterno='LUNA', fnac=1992-03-21 00:00:00.0, estado='VIVO'}
24 Nombre NO Dos nombres y el segundo termina en a % %a
Alumno{matricula='11030180', nombre='CARLOS DAVID', paterno='GUTIERREZ', fnac=1991-01-24 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030183', nombre='RAMON HUMBERTO', paterno='JIMENEZ', fnac=1991-04-03 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030188', nombre='JAVIER JOSUE', paterno='MARTINEZ', fnac=1991-04-22 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030201', nombre='OSCAR', paterno='SUAREZ', fnac=1991-10-25 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030207', nombre='MICHELLE IVONNE', paterno='AGUILAR', fnac=1991-09-28 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030208', nombre='JOSE DE JESUS', paterno='ALVAREZ', fnac=1991-07-13 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030215', nombre='ANDRES', paterno='CRUZ', fnac=1991-03-19 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030222', nombre='MIGUEL ANGEL', paterno='GUTIERREZ', fnac=1991-01-15 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030241', nombre='ALFONSO', paterno='VERAZA', fnac=1991-02-01 00:00:00.0, estado='VIVO'}
Alumno{matricula='11030266', nombre='PAOLA ISABEL', paterno='NIETO', fnac=1990-11-27 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040012', nombre='FRANCISCO JAVIER', paterno='DEL RIO', fnac=1989-10-30 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040013', nombre='CARLOS DAVID', paterno='PEREZ', fnac=1991-01-24 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040027', nombre='SERGIO ALBERTO', paterno='MEDINA', fnac=1989-04-26 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040029', nombre='CARLOS DAVID', paterno='MENDOZA', fnac=1991-01-24 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040037', nombre='CARLOS DAVID', paterno='null', fnac=1991-01-24 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040038', nombre='ANA', paterno='MENDOZA', fnac=1989-04-13 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040039', nombre='ANA', paterno='PEREZ', fnac=1989-04-13 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040061', nombre='EMMANUEL ELISEO', paterno='GODINEZ CHARLES', fnac=1989-04-13 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040132', nombre='THALIA', paterno='VARGAS', fnac=1989-11-20 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040142', nombre='ROXANA', paterno='GUTIERREZ', fnac=1991-04-03 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040143', nombre='ROXANA', paterno='JIMENEZ', fnac=1991-04-03 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040160', nombre='SEBASTIAN', paterno='MENDOZA', fnac=1992-07-24 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040161', nombre='JOSE MANUEL', paterno='MERAZ', fnac=1992-04-25 00:00:00.0, estado='VIVO'}
Alumno{matricula='11040164', nombre='CARLOS DAVID', paterno='GONZALEZ', fnac=1991-01-24 00:00:00.0, estado='VIVO'}
```