## Capturas y logs:

Ejercicio 2:

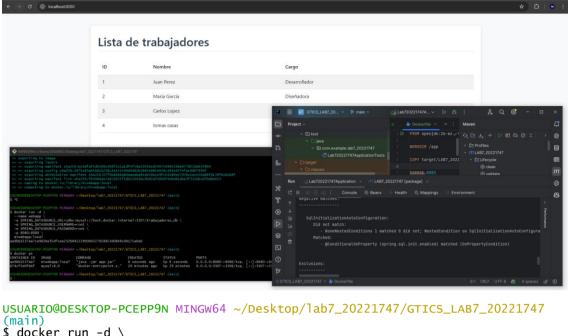
```
UMALDEDUESH IOP-PEEPPSH MINGMO4 -/Desktop/lab/_20221/4//GII
docker run -d \
--name mysql-db \
-e MYSQL_DATABASE=trabajadores_db \
-e MYSQL_DATABASE=trabajadores_db \
-v $(pwd)/init.sql:/docker-entrypoint-initdb.d/init.sql \
-p 3307:3306 \
   mysql:8.0
74cf2e0f64f24bd2e3bf6e290c2ae1144075da5b888d787d5e426edac08fe66
  $ docker ps
CONTAINER ID IMAGE
            IMAGE COMMAND CREATED mysql:8.0 "docker-entrypoint.s..." 8 minutes ago
                                                   STATUS PORTS
Up 8 minutes 0.0.0.0:3307->3306/tcp, [::]:3307->3306/tcp
docker run -d \
  --name mysql-db \
  -e MYSQL_ROOT_PASSWORD=root \
-e MYSQL_DATABASE=trabajadores_db \
  -v $(pwd)/init.sql:/docker-entrypoint-initdb.d/init.sql \
  -p 3307:3306 \
  mysq1:8.0
674cf2e0f64f24bd2e3bf6e290c2ae1144075da5b888d787d5e426edac08fe66
docker ps
                                   COMMAND
CONTAINER ID
                                                                                         STATUS
                   IMAGE
                                                                    CREATED
                                   NAMES
"docker-entrypoint.s.."
06/tcn [..].222
PORTS
674cf2e0f64f
                   mysq1:8.0
                                                                    8 minutes ago
                                                                                         Up 8
            0.0.0.0:3307->3306/tcp, [::]:3307->3306/tcp
                                                                         mysql-db
minutes
parte 2:
$ docker build -t miwebapp:local
[+] Building 103.6s (8/8) FINISHED
docker:desktop-linux
=> [internal] load build definition from Dockerfile
0.1s
 => => transferring dockerfile: 200B
0.0s
 => [internal] load metadata for docker.io/library/openjdk:26-ea-17-jdk-oracle
0.5s
 => [internal] load .dockerignore
0.0s
 => => transferring context:
2в
0.0s
 => [1/3] FROM docker.io/library/openjdk:26-ea-17-jdk-
oracĪe@sha256:193478183006a91637630aeÍfa088f4f2f2728e06b8a29ebe60273928b9fc555
=> => resolve docker.io/library/openjdk:26-ea-17-jdk-
oracle@sha256:193478183006a91637630ae1fa088f4f2f2728e06b8a29ebe60273928b9fc555
0.0s
        sha256:3978622ba31aff71854710c68fe819e916e1ce4e21abc85be84f70fc2d4fa341
38.08MB / 38.08MB
12.0s
 => sha256:91e26d0ee90a443892a5613a9be17fe407f9d4a263f49dc1098b67a1d493f697
225.59MB / 225.59MB
33.0s
 => sha256:806f49275cbff8773a3d3cb9c7e11efc00cbe434b66b9896fdad5064c4cb5355
49.50MB / 49.50MB
11.7s
 => => extracting
sha256:806f49275cbff8773a3d3cb9c7e11efc00cbe434b66b9896fdad5064c4cb5355
2.5s
 => => extracting
sha256:3978622ba31aff71854710c68fe819e916e1ce4e21abc85be84f70fc2d4fa341
1.8s
```

```
=> => extracting
sha256:91e26d0ee90a443892a5613a9be17fe407f9d4a263f49dc1098b67a1d493f697
33.3s
=> [internal] load build context
5.3s
=> => transferring context: 45.34MB
5.3s
\Rightarrow \lceil 2/3 \rceil WORKDIR /app
32.6s
=> [3/3] COPY target/LAB7_20221747-0.0.1-SNAPSHOT.jar app.jar
0.85
=> exporting to image
2.5s
=> => exporting layers
2.0s
=> => exporting manifest
sha256:b13dfaf5d0208c268f2c1a1df4f58a3342bcd5407c440526be877d52de6399b9
0.05
=> exporting config sha256:2675e83a41b010238c3e151504d49d1b2841b085e428c363e35fefac8807496f
 => => exporting attestation manifest
sha256:07f5b8486a84eaeaba81eb39a3c9fc54180e27976ccecc56a86f8139fb161b9f
0.0s
=> =>
      exporting manifest list
sha256:fb398dae7e4c0255f5d0c5643bc4b82af40b0f4ebd41dbe3f33cbbcd7bd0e453
0.0s
=> => naming to docker.io/library/miwebapp:local
0.0s
=> => unpacking to docker.io/library/miwebapp:local
0.4s
```

```
USUARIO@DESKTOP-PCEPP9N MINGW64 ~/Desktop/lab7_20221747/GTICS_LAB7_20221747 (main)

$ docker run -d \
--name webapp \
-e SPRING_DATASOURCE_URL=jdbc:mysql://host.docker.internal:3307/trabajadores_db \
-e SPRING_DATASOURCE_USERNAME=root \
-e SPRING_DATASOURCE_PASSWORD=root \
-p 8080:8080 \
miwebapp:local
ae9bb1537ee7ce982be35dfcee232b0412290004227658853d0848c04171a0eb
```

	Name	Container ID	Image	Port(s)
	mysql-db	674cf2e0f64f	mysql:8.0	<u>3307:3306</u> ℃
	webapp	ae9bb1537ee7		<u>8080:8080</u> ♂



```
$ docker run -d \
  --name webapp \
  -6
SPRING_DATASOURCE_URL=jdbc:mysql://host.docker.internal:3307/trabajadores_db \
  -e SPRING_DATASOURCE_USERNAME=root \
  -e SPRING_DATASOURCE_PASSWORD=root \
  -p 8080:8080 \
  miwebapp:local
ae9bb1537ee7ce982be35dfcee232b0412290004227658853d0848c04171a0eb
USUARIO@DESKTOP-PCEPP9N MINGW64 ~/Desktop/lab7_20221747/GTICS_LAB7_20221747
(main)
$ docker ps
CONTAINER ID
                                         COMMAND
                                                                         CREATED
                   IMAGE
STATUS
                    PORTS
                                                                               NAMES
             PORTS
e7 miwebapp:local "java -jar app.jar"
0.0.0.0:8080->8080/tcp, [::]:8080->8080/tcp
4f mysql:8.0 "docker-entrypoint.s.."
0.0.0.0:3307->3306/tcp, [::]:3307->3306/tcp
                                                                         8 seconds ago
ae9bb1537ee7
                                                                                              Up 6
                                                                        webapp
seconds
674cf2e0f64f
                                                                         29 minutes ago
                                                                                              Up
```

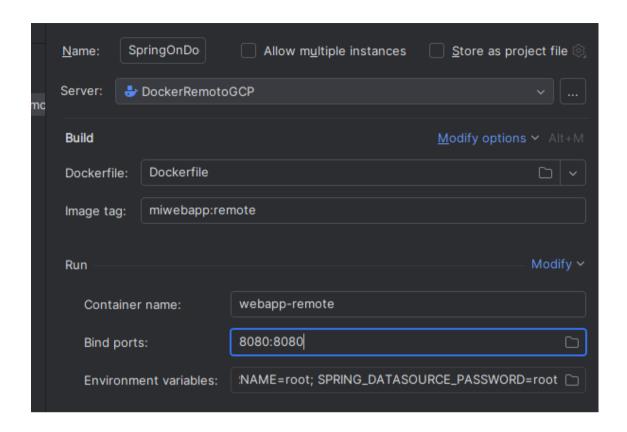
mysql-db

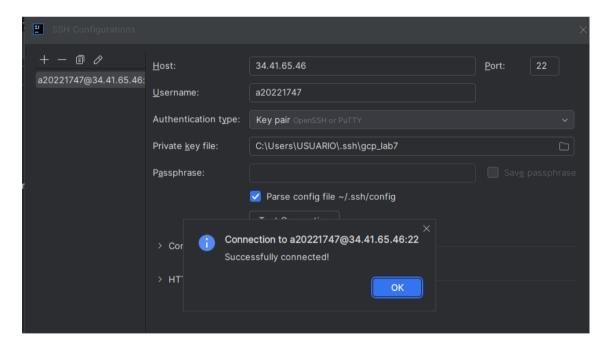
29 minutes

## ejercicio 3:

```
Docker version 20.10.24+dfsgl, build 297e128 a20221747@instance-20251027-004009:~$ docker info Client:
 Context:
                    default
 Debug Mode: false
 Plugins:
  buildx: Docker Buildx (Docker Inc., v0.29.1)
compose: Docker Compose (Docker Inc., v2.40.2)
model: Docker Model Runner (Docker Inc., v0.1.44)
 Containers: 0
  Running: 0
   Paused: 0
   Stopped: 0
 Images: 0
Server Version: 20.10.24+dfsg1
  Storage Driver: overlay2
  Backing Filesystem: extfs
  Supports d_type: true
Native Overlay Diff: true
   userxattr: false
 Logging Driver: json-file
Cgroup Driver: systemd
Cgroup Version: 2
  Plugins:
  Volume: local
  Network: bridge host ipvlan macvlan null overlay
Log: awslogs fluentd gcplogs gelf journald json-file local logentries splunk syslog
  Swarm: inactive
 Runtimes: runc io.containerd.runc.v2 io.containerd.runtime.v1.linux Default Runtime: runc
  Init Binary: docker-init
 containerd version: 1.6.20~ds1-1+deb12u1 runc version: 1.1.5+ds1-1+deb12u1
  init version:
 Security Options:
  apparmor
   seccomp
    Profile: default
 cgroupns
Kernel Version: 6.1.0-40-cloud-amd64
Operating System: Debian GNU/Linux 12 (bookworm)
OSType: linux
 Architecture: x86 64
 CPUs: 2
Total Memory: 1.93GiB
 Name: instance-20251027-004009
ID: JGRG:Q5IP:6W3N:T7FR:BW4S:3XF7:TQQ0:VWZ7:6K4M:BNOJ:OLJM:KU3P
 Docker Root Dir: /var/lib/docker
Debug Mode: false
Registry: https://index.docker.io/v1/
```

## docker ps:





Construccion: [+] Building 2.9s (9/9) FINISHED docker:default

=> [internal] load build definition from Dockerfile 0.5s

```
=> => transferring dockerfile: 32B
0.5s
=> [internal] load .dockerignore
0.5s
=> => transferring context: 2B
0.5s
=> [internal] load metadata for docker.io/library/openjdk:26-ea-17-jdk-oracle
1.1s
=> [auth] library/openjdk:pull token for registry-1.docker.io
0.0s
=> [1/3] FROM docker.io/library/openjdk:26-ea-17-jdk-
oracle@sha256:193478183006a91637630ae1fa088f4f2f2728e06b8a29ebe60273928b9fc555
0.0s
=> [internal] load build context
0.5s
=> => transferring context: 89B
0.5s
=> CACHED [2/3] WORKDIR /app
0.0s
=> CACHED [3/3] COPY target/LAB7_20221747-0.0.1-SNAPSHOT.jar app.jar
=> exporting to image
0.0s
=> => exporting layers
0.0s
=> => writing image
sha256:e63cf1c24da370ed05ad9ff248a9d8d02fabbf2c3675a8c9d67e2813eecbf672
0.0s
=> => naming to docker.io/library/miwebapp:remote
```

## Ejecucion:



```
2025-10-27T02:08:22.675Z INFO 1 --- [ main] : Starting Lab720221747Application : Starting Lab720221747Application
v0.0.1-SNAPSHOT using Java 26-ea with PID 1 (/app/app.jar started by root in
main]
c.e.l.Lab720221747Application
to 1 default profile: "default"
2025-10-27T02:08:24.049z INFO 1 --- [
                                                                          : No active profile set, falling back
                                                                                        mainl
.s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2025-10-27T02:08:24.202Z INFO 1 --- [
2025-10-2/T02:08:24.202Z INFO 1 --- [ main]
.s.d.r.c.RepositoryConfigurationDelegate: Finished Spring Data repository
scanning in 105 ms. Found 1 JPA repository interfaces.
WARNING: A restricted method in java.lang.System has been called
WARNING: java.lang.System::load has been called by
org.apache.tomcat.jni.Library in an unnamed module
(jar:file:/app/app.jar!/BOOT-INF/lib/tomcat-embed-core-10.1.7.jar!/)
WARNING: Use --enable-native-access=ALL-UNNAMED to avoid a warning for callers
in this module
in this module
WARNING: Restricted methods will be blocked in a future release unless native
access is enabled
2025-10-27T02:08:25.018Z INFO 1 --- [
                                                                                        main]
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2025-10-27102:08:25.034z INFO 1 --- [
                                                                                        main]
o.apache.catalina.core.StandardService
2025-10-27T02:08:25.035Z INFO 1 --- [
                                                                          : Starting service [Tomcat]
                                                                                        mainl
o.apache.catalina.core.StandardEngine
Tomcat/10.1.7]
                                                                          : Starting Servlet engine: [Apache
2025-10-27T02:08:25.143Z INFO 1 --- [
                                                                                        main]
o.a.c.c.C.[Tomcat].[localhost].[/]
WebApplicationContext
                                                                          : Initializing Spring embedded
2025-10-27T02:08:25.144Z INFO 1 --- [ main] w.s.c.ServletWebServerApplicationContext: Root WebApplicationContext:
initialization completed in 2370 ms
2025-10-27T02:08:25.353Z INFO 1 --- [ main]
o.hibernate.jpa.internal.util.edital
PersistenceUnitInfo [name: default] 2025-10-27T02:08:25.424Z INFO 1 ---
                                                                                        main] org.hibernate.Version
  HHH000412: Hibernate ORM core version 6.1.7.Final
: HHHOU0412: Hibernate ORM core Version 6
2025-10-27T02:08:25.746Z INFO 1 --- [
com.zaxxer.hikari.HikariDataSource
2025-10-27T02:08:27.844Z INFO 1 --- [
com.zaxxer.hikari.pool.HikariPol.com.mysql.cj.jdbc.ConnectionImpl@3cc20577
2025-10-27T02:08:27.857Z INFO 1 --- [
com.zaxxer.hikari.HikariDataSource
                                                                                        main]
                                                                          : HikariPool-1 - Starting...
                                                                                        main]
                                                                          : HikariPool-1 - Added connection
                                                                                        main]
com.zaxxer.hikari.HikariDataSource
                                                                          : HikariPool-1 - Start completed.
2025-10-27T02:08:28.236Z INFO 1 --- [
                                                                                        main] SQL dialect
: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Hibernate: drop table if exists trabajadores
Hibernate: create table trabajadores (id integer not null auto_increment,
cargo varchar(255), nombre varchar(255), primary key (id)) engine=InnoDB
2025-10-27T02:08:29.712Z INFO 1 --- [ main]
o.h.e.t.j.p.i.JtaPlatformInitiator implementation:
                                                                          : HHH000490: Using JtaPlatform
[org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2025-10-27T02:08:29.732Z INFO 1 --- [ main]
j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default' 2025-10-27T02:08:30:205Z WARN 1 --- [ main]
JpaBaseConfiguration$JpaWebConfiguration: spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view
Explicitly configure spring.jpa.open-in-view to disable this warning 2025-10-27T02:08:31.689Z INFO 1 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path '' 2025-10-27T02:08:31.725Z INFO 1 --- [ main] c.e.l.lab720221747Application : Started Lab720221747Application
c.e.l.Lab720221747Application
                                                                          : Started Lab720221747Application in
9.592 seconds (process running for 10.475)
2025-10-27T02:14:49.130z INFO 1 --- [ionShutdownHook]
j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
```

```
com.zaxxer.hikari.HikariDataSource
                                                                                                : HikariPool-1 - Shutdown
 initiated..
2025-10-27T02:14:50.578Z INFO 1 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-
                                                                                                : HikariPool-1 - Shutdown completed.
                             1=========
   :: Spring Boot ::
 2025-10-27T02:45:29.883Z INFO 1 --- [
                                                                                                                   main]
                                                                                                 : Starting Lab720221747Application
 c.e.l.Lab720221747Application
 v0.0.1-SNAPSHOT using Java 26-ea with PID 1 (/app/app.jar started by root in
/app)
2025-10-27T02:45:29.887z INFO 1 --- [
c.e.1.Lab720221747Application
to 1 default profile: "default"
2025-10-27T02:45:30.854z INFO 1 --- [
                                                                                                                   mainl
                                                                                                : No active profile set, falling back
                                                                                                                   mainl
 .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA
repositories in DEFAULT mode.
2025-10-27T02:45:30.932Z INFO 1 --- [
.s.d.r.c.RepositoryConfigurationDelegate: Finished Spring Data repository scanning in 62 ms. Found 1 JPA repository interfaces.

WARNING: A restricted method in java.lang.System has been called WARNING: java.lang.System::load has been called by org.apache.tomcat.jni.Library in an unnamed module (jar:file:/app/app.jar!/BOOT-INF/lib/tomcat-embed-core-10.1.7.jar!/)

WARNING: Use --enable-native-access=ALL-UNNAMED to avoid a warning for callers in this module
 in this module
WARNING: Restricted methods will be blocked in a future release unless native
 access is enabled
 2025-10-27T02:45:31.561Z INFO 1 --- [
                                                                                                                   mainl
 o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s):
 8080 (http)
 2025-10-27T02:45:31.575Z INFO 1 --- [
                                                                                                                   mainl
 o.apache.catalina.core.StandardService
                                                                                                : Starting service [Tomcat]
 2025-10-27T02:45:31.575Z INFO 1 --- [
                                                                                                                   mainl
 o.apache.catalina.core.StandardEngine
                                                                                                 : Starting Servlet engine: [Apache
 Tomcat/10.1.7]
 2025-10-27T02:45:31.673Z INFO 1
                                                                                                                   main]
 o.a.c.c.C.[Tomcat].[localhost].[/]
                                                                                                : Initializing Spring embedded
WebApplicationContext
2025-10-27T02:45:31.674Z INFO 1 --- [ main] w.s.c.ServletWebServerApplicationContext: Root WebApplicationContext:
initialization completed in 1704 ms 2025-10-27T02:45:31.858Z INFO 1 --- [
                                                                                                                   mainl
o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default] 2025-10-27T02:45:31.933Z INFO 1 --- [ main] org.hibernate.jpa.internal.util.LogHelper : main] or
                                                                                                                   main] org.hibernate.Version
: HHH000412: Hibernate ORM core version 6.1.7.Final 2025-10-27T02:45:32.273z INFO 1 --- [ ma: com.zaxxer.hikari.HikariDataSource : HikariPoc 2025-10-27T02:45:34.220z INFO 1 --- [ ma: com.zaxxer.hikari.pool.HikariPool : HikariPool : HikariPool
                                                                                                                  main]
                                                                                                 : HikariPool-1 - Starting...
                                                                                                                   main]
                                                                                                 : HikariPool-1 - Added connection
mainl
com.zaxxer.hikari.HikariDataSource
2025-10-27T02:45:34.571z INFO 1 --- [
                                                                                                 : HikariPool-1 - Start completed.
                                                                                                                  main] SQL dialect
 : HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Hibernate: drop table if exists trabajadores
Hibernate: create table trabajadores (id integer not null auto_increment,
cargo varchar(255), nombre varchar(255), primary key (id)) engine=InnoDB 2025-10-27T02:45:36.156Z INFO 1 --- [ main]
 o.h.e.t.j.p.i.JtaPlatformInitiator
                                                                                                : HHH000490: Using JtaPlatform
 implementation:
 [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
 2025-10-27T02:45:36.167Z INFO 1 --- [
                                                                                                                  main]
j.LocalContainerEntityManagerFactoryBean : Initialized JPA
EntityManagerFactory for persistence unit 'default'
2025-10-27T02:45:36.654z WARN 1 --- [ main]
JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled
```

```
by default. Therefore, database queries may be performed during view rendering.

Explicitly configure spring.jpa.open-in-view to disable this warning 2025-10-27T02:45:37.922Z INFO 1 --- [ main]

o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2025-10-27T02:45:37.965Z INFO 1 --- [ main]
c.e.l.Lab720221747Application : Started Lab720221747Application in 8.617 seconds (process running for 9.405)
```