

```
Last login: Thu May 8 09:00:20 on ttys000
mananas@iMac-de-CAS-2 ~ % cd ALFREDO
mananas@iMac-de-CAS-2 ALFREDO % cd BaseDatos
mananas@iMac-de-CAS-2 BaseDatos % ls -l
total 14896
-rwxr-xr-x@ 1 mananas staff 924780 21 abr 11:28 DER v1.pdf
-rwxr-xr-x@ 1 mananas staff 709954 31 jul 2024 Ejercicio 01 - Pyme Comercial.pdf
-rwxr-xr-x@ 1 mananas staff 59162 31 jul 2024 Ejercicio 01 - Pyme Comercial.png
-rwxr-xr-x@ 1 mananas staff 49094 31 jul 2024 Ejercicio 02 - Alquiler de Coches con atributos.jpg
-rwxr-xr-x@ 1 mananas staff 22078 31 jul 2024 Ejercicio 02 - Alquiler de Coches.jpg
-rwxr-xr-x@ 1 mananas staff 99504 31 jul 2024 Ejercicio 02 - Alquiler de Coches.pdf
-rwxr-xr-x@ 1 mananas staff 41841 21 abr 20:32 Ejercicio 03 - Coleccion Musical.pdf
-rwxr-xr-x@ 1 mananas staff 38307 21 abr 20:38 Ejercicio 03 - Coleccion Musical.png
-rwxr-xr-x@ 1 mananas staff 84850 21 abr 21:01 Ejercicio 04 - Clinica Medica.pdf
-rwxr-xr-x@ 1 mananas staff 41586 23 abr 10:54 Ejercicio 04 - Clinica Medica.png
-rwxr-xr-x@ 1 mananas staff 81466 21 abr 21:10 Ejercicio 05 - Club de Tenis.pdf
-rwxr-xr-x 1 mananas staff 24319 21 abr 21:12 Ejercicio 05 - Club de Tenis.png
-rwxr-xr-x@ 1 mananas staff 109138 22 abr 11:25 Ejercicio 06 - Biblioteca.pdf
-rwxr-xr-x 1 mananas staff 40228 25 abr 13:07 Ejercicio 06 - Biblioteca.png
-rwxr-xr-x@ 1 mananas staff 97255 24 abr 12:36 Ejercicio 07 - Vuelos.pdf
-rwxr-xr-x@ 1 mananas staff 40257 25 abr 13:07 Ejercicio 07 - Vuelos.png
-rwxr-xr-x@ 1 mananas staff 120483 25 abr 10:35 Ejercicio 08 - Despacho de Abogados.pdf
-rwxr-xr-x@ 1 mananas staff 572754 25 abr 13:15 Ejercicio 09 - Acta Partido.pdf
-rwxr-xr-x@ 1 mananas staff 36406 31 jul 2024 Ejercicio 09- RUGBY.pdf
-rw-r--r--@ 1 mananas staff 14144 23 abr 09:44 Ejercicio03.drawio
-rw-r--r--@ 1 mananas staff 14631 23 abr 10:48 Ejercicio04.drawio
-rw-r--r--@ 1 mananas staff 16858 23 abr 12:42 Ejercicio05.drawio
-rw-r--r--@ 1 mananas staff 19520 24 abr 10:26 Ejercicio06.drawio
-rw-r--r--@ 1 mananas staff 17092 25 abr 09:41 Ejercicio07.drawio
-rw-r--r--@ 1 mananas staff 20889 25 abr 13:42 Ejercicio08.drawio
-rwxr-xr-x 1 mananas staff 2715425 7 may 11:13 Modelo Relacional.pdf
-rwxr-xr-x@ 1 mananas staff 1098506 11 abr 13:42 Modulo II - 1 Diseño de Bases de Datos Relacionales - 1a Introducción a las BBDD.pdf
f
-rw-rw-rw-@ 1 mananas staff 455225 25 abr 12:37 Modulo II - 1 Diseño de Bases de Datos Relacionales - 1b Modelos Conceptuales de BB
DD.pdf
-rw-r--r--@ 1 mananas staff 3781 25 abr 10:14 RelacionesTernarias.drawio
-rwxr-xr-x@ 1 mananas staff 2135 8 may 09:04 alquiler_coches_postgres.sql
drwxr-xr-x 10 mananas staff 320 8 may 09:16 mysql
mananas@iMac-de-CAS-2 BaseDatos % docker cp inserts_postgres.sql postgres:/root
Successfully copied 55.8kB to postgres:/root
mananas@iMac-de-CAS-2 BaseDatos % docker cp alquiler_coches_postgres.sql postgres:/root
Successfully copied 4.1kB to postgres:/root
mananas@iMac-de-CAS-2 BaseDatos % ls -l
total 15008
-rwxr-xr-x@ 1 mananas staff 924780 21 abr 11:28 DER v1.pdf
-rwxr-xr-x@ 1 mananas staff 709954 31 jul 2024 Ejercicio 01 - Pyme Comercial.pdf
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-rwxr-xr-x 1 mananas staff 54264 8 may 09:03 inserts_postgres.sql
drwxr-xr-x 10 mananas staff 320 8 may 09:16 mysql
mananas@iMac-de-CAS-2 BaseDatos % docker cp inserts_postgres.sql postgres:/root
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Successfully copied 4.1kB to postgres:/root
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DD.pdf
-rw-r--r--@ 1 mananas staff 3781 25 abr 10:14 RelacionesTernarias.drawio
-rwxr-xr-x@ 1 mananas staff 2135 8 may 09:04 alquiler_coche_postgres.sql
-rwxr-xr-x 1 mananas staff 54264 8 may 09:03 inserts_postgres.sql
drwxr-xr-x 11 mananas staff 352 8 may 11:08 mysql
mananas@iMac-de-CAS-2 BaseDatos % cd..
zsh: command not found: cd..
mananas@iMac-de-CAS-2 BaseDatos % cd..
zsh: command not found: cd..
mananas@iMac-de-CAS-2 BaseDatos % cd ..
mananas@iMac-de-CAS-2 ALFREDO % cd ..
mananas@iMac-de-CAS-2 ~ % ls -l
total 17924688
drwxr-xr-x 16 mananas staff 512 5 may 12:06 ALFREDO
drwx-----+ 10 mananas staff 320 8 may 12:07 Desktop
drwx-----+ 5 mananas staff 160 26 mar 13:12 Documents
drwx-----+ 5 mananas staff 160 8 may 10:32 Downloads
-rwx----- 1 mananas staff 1615 25 feb 18:02 Especificaciones_tecnicas.txt
-rwx----- 1 mananas staff 1376 25 feb 18:05 Informe_25_01_20.txt
drwx-----@ 82 mananas staff 2624 30 abr 13:13 Library
drwx----- 4 mananas staff 128 19 feb 10:33 Movies
drwx-----+ 4 mananas staff 128 19 feb 12:46 Music
drwx-----+ 4 mananas staff 128 17 feb 13:15 Pictures
drwxr-xr-x+ 5 mananas staff 160 24 feb 13:51 Public
drwxr-xr-x 3 mananas staff 96 4 mar 12:29 bin
-rwx----- 1 mananas staff 817909 25 feb 18:38 cimienta_columna.png
-rwxr-xr-x@ 1 mananas staff 9176610304 8 may 10:59 oracle.tar
mananas@iMac-de-CAS-2 ~ % docker load -i oracle.tar
Loaded image: container-registry.oracle.com/database/free:latest
mananas@iMac-de-CAS-2 ~ % docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mysqlalfredo latest f7d70f28aaba 7 days ago 1.05GB
mysql 8.0 eb6ab151938d 3 weeks ago 1.05GB
ubuntu latest 1e622c5f073b 4 weeks ago 139MB
alfredo_sicre alfredo_sicre a6c3d1d57a22 4 weeks ago 139MB
tomcat jdk17 df8c30401154 2 months ago 784MB
container-registry.oracle.com/database/free latest e7eb5e01f5b0 2 months ago 18.4GB
postgres latest 304ab8135187 2 months ago 640MB
node latest c29271c7f2b4 2 months ago 1.6GB
debian latest 35286826a88d 2 months ago 203MB
mananas@iMac-de-CAS-2 ~ % docker run --name oracle -p1521:1521 -e ORACLE_PWD:root e7eb5e01f5b0
Starting Oracle Net Listener.
Oracle Net Listener started.
Starting Oracle Database instance FREE.
Oracle Database instance FREE started.

The Oracle base remains unchanged with value /opt/oracle
#####
DATABASE IS READY TO USE!
#####
The following output is now a tail of the alert.log:
2025-05-08T10:13:30.116141+00:00
=====
Dumping current patch information
=====
No patches have been applied
=====
2025-05-08T10:13:30.132568+00:00
FREEDB1(3):Opening pdb with Resource Manager plan: DEFAULT_PLAN
Completed: Pluggable database FREEDB1 opened read write
Completed: ALTER DATABASE OPEN
^CStopping container.
SIGINT received, shutting down database!

SQL*Plus: Release 23.0.0.0.0 - Production on Thu May 8 10:14:03 2025
Version 23.7.0.25.01

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Connected to:

```

Oracle Database 23ai Free Release 23.0.0.0.0 - Develop, Learn, and Run for Free
Version 23.7.0.25.01

```
SQL> 2025-05-08T10:14:03.836369+00:00
Shutting down ORACLE instance (immediate) (OS id: 520)
Shutdown is initiated by sqlplus@ed1f9fd514a6b (TNS V1-V3).
Stopping background process SMC0.
Shutting down instance: further logons disabled
2025-05-08T10:14:03.978163+00:00
Stopping background process CJQ0
Stopping background process MMNL.
Stopping background process MMON.
alter pluggable database all close immediate
2025-05-08T10:14:04.258614+00:00
FREEPDB1(3):JIT: pid 520 requesting stop
2025-05-08T10:14:04.261370+00:00
FREEPDB1(3):Stopped service freepdb1
Completed: Pluggable database FREEPDB1 closed services=None
Completed: alter pluggable database all close immediate
PDB$SEED(2):JIT: pid 520 requesting stop
License high water mark = 5
```

```
Data Pump shutdown in progress
ALTER DATABASE CLOSE NORMAL
alter pluggable database all close immediate
Completed: alter pluggable database all close immediate
alter pluggable database all close immediate
Completed: alter pluggable database all close immediate
Stopping change tracking
Database closed.
Database dismounted.
2025-05-08T10:14:05.399640+00:00
Thread 1 closed at log sequence 2
Successful close of redo thread 1
2025-05-08T10:14:05.437039+00:00
Completed: ALTER DATABASE CLOSE NORMAL
ALTER DATABASE DISMOUNT
Completed: ALTER DATABASE DISMOUNT
ORACLE instance shut down.
SQL> Disconnected from Oracle Database 23ai Free Release 23.0.0.0.0 - Develop, Learn, and Run for Free
Version 23.7.0.25.01
```

LSNRCTL for Linux: Version 23.0.0.0.0 - Production on 08-MAY-2025 10:14:05

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```
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=0.0.0.0)(PORT=1521)))
The command completed successfully
mananas@iMac-de-CAS-2 ~ % docker stop e7eb5e01f5b0
Error response from daemon: No such container: e7eb5e01f5b0
mananas@iMac-de-CAS-2 ~ % docker run --name oracle -p1521:1521 -e ORACLE_PWD:root -d e7eb5e01f5b0
b23675ac09670aff470dd55afc58c330695c00ae8df3e6075119a88d62bd4b35
mananas@iMac-de-CAS-2 ~ % docker stop mysql88
mysql88
mananas@iMac-de-CAS-2 ~ % docker stop postgres
postgres
mananas@iMac-de-CAS-2 ~ % docker run --name oracle -p1521:1521 -e ORACLE_PWD:root -d e7eb5e01f5b0
docker: Error response from daemon: Conflict. The container name "/oracle" is already in use by container "b23675ac09670aff470dd55afc58c330695c00ae8df3e6075119a88d62bd4b35". You have to remove (or rename) that container to be able to reuse that name.
```

```
Run 'docker run --help' for more information
mananas@iMac-de-CAS-2 ~ % docker run --name oracle -p1521:1521 -e ORACLE_PWD:root -d b23675ac09670aff470dd55afc58c330695c00ae8df3e6075119a88d62bd4b35
19a88d62bd4b35
docker: Error response from daemon: No such image: sha256:b23675ac09670aff470dd55afc58c330695c00ae8df3e6075119a88d62bd4b35
```

```
Run 'docker run --help' for more information
mananas@iMac-de-CAS-2 ~ % docker exec -it oracle bash
bash-4.4$ sqlplus / as sysdba
```

SQL*Plus: Release 23.0.0.0.0 - Production on Thu May 8 10:22:58 2025
Version 23.7.0.25.01

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Connected to:
Oracle Database 23ai Free Release 23.0.0.0.0 - Develop, Learn, and Run for Free
Version 23.7.0.25.01

```
SQL> create user c##coches
2 ^C^Z^X^C^Z^B^F
SQL> Disconnected from Oracle Database 23ai Free Release 23.0.0.0.0 - Develop, Learn, and Run for Free
Version 23.7.0.25.01
exit
```

```
bash: xit: command not found
bash-4.4$ sqlplus / sysdba
```

SQL*Plus: Release 23.0.0.0.0 - Production
Version 23.7.0.25.01

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Use SQL*Plus to execute SQL, PL/SQL and SQL*Plus statements.

Usage 1: sqlplus -H | -V

- H Displays the SQL*Plus version and the usage help.
- V Displays the SQL*Plus version.

Usage 2: sqlplus [[<option>] [{logon | /nolog}] [<start>]]

- <option> is: [-C <version>] [-F] [-L] [-M "<options>"] [-NOLOGINTIME] [-P <connect identifier>] [-R <level>] [-S]
- C <version> Sets the compatibility of affected commands to the version specified by <version>. The version has the form "x.y[z]". For example, -C 10.2.0
 - F This option improves performance in general. It changes the default values settings. See SQL*Plus User's Guide for the detailed settings.
 - L Attempts to log on just once, instead of reprompting on error.
 - M "<options>" Sets automatic HTML or CSV markup of output. The options have the form:
{HTML html_options|CSV csv_options}
See SQL*Plus User's Guide for detailed HTML and CSV options.
 - NOLOGINTIME Don't display Last Successful Login Time.
 - R <level> Sets restricted mode to disable SQL*Plus commands that interact with the file system. The level can be 1, 2 or 3. The most restrictive is -R 3 which disables all user commands interacting with the file system.
 - S Sets silent mode which suppresses the display of the SQL*Plus banner, prompts, and echoing of commands.
 - P <con_iden> Pings the listener associated with the provided connect identifier and exits SQL*Plus.

<logon> is: {<username>[/<password>][@<connect_identifier>] | / }
[AS {SYSDBA | SYSOPER | SYSASM | SYSBACKUP | SYSDG
| SYSKM | SYSRAC}] [EDITION=value]

Specifies the database account username, password and connect identifier for the database connection. Without a connect identifier, SQL*Plus connects to the default database.

The AS SYSDBA, AS SYSOPER, AS SYSASM, AS SYSBACKUP, AS SYSDG, AS SYSKM and AS SYSRAC options are database administration privileges.

<connect_identifier> can be in the form of Net Service Name or Easy Connect.

@[<net_service_name> | [[/]]Host[:Port]/<service_name>] |
[[[protocol:]/]]host1{,host12}[:port1]{,host2:port2}[/service_name]
[:server]/[instance_name][?{parameter_name=value}
{¶meter_name=value}]]]

<net_service_name> is a simple name for a service that resolves to a connect descriptor.

Example: Connect to database using Net Service Name and the database net service name is ORCL.

sqlplus myusername/mypassword@ORCL

Host specifies the host name or IP address of the database server computer.

Port specifies the listening port on the database server.

<service_name> specifies the service name of the database you want to access.

Example: Connect to database using Easy Connect and the Service name is ORCL.

sqlplus myusername/mypassword@Host/ORCL

The /NOLOG option starts SQL*Plus without connecting to a database.

The EDITION specifies the value for Session Edition.

<start> is: @<URL>|<filename>[.<ext>] [<parameter> ...]

Runs the specified SQL*Plus script from a web server (URL) or the local file system (filename.ext) with specified parameters that will be assigned to substitution variables in the script.

When SQL*Plus starts, and after CONNECT commands, the site profile (e.g. \$ORACLE_HOME/sqlplus/admin/glogin.sql) and the user profile (e.g. login.sql in the working directory) are run. The files may contain SQL*Plus commands.

Refer to the SQL*Plus User's Guide and Reference for more information.
bash-4.4\$ exit
exit
mananas@iMac-de-CAS-2 ~ % docker exec -it oracle bash
bash-4.4\$ sqlplus / sysdba

SQL*Plus: Release 23.0.0.0.0 - Production
Version 23.7.0.25.01

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Use SQL*Plus to execute SQL, PL/SQL and SQL*Plus statements.

Usage 1: sqlplus -H | -V

-H	Displays the SQL*Plus version and the usage help.
-V	Displays the SQL*Plus version.

Usage 2: sqlplus [[<option>] [{logon | /nolog}] [<start>]]

<option> is: [-C <version>] [-F] [-L] [-M "<options>"] [-NOLOGINTIME]
[-P <connect identifier>] [-R <level>] [-S]

-C <version>	Sets the compatibility of affected commands to the version specified by <version>. The version has the form "x.y[z]". For example, -C 10.2.0
-F	This option improves performance in general. It changes the default values settings. See SQL*Plus User's Guide for the detailed settings.
-L	Attempts to log on just once, instead of reprompting on error.
-M "<options>"	Sets automatic HTML or CSV markup of output. The options have the form: {HTML html_options CSV csv_options} See SQL*Plus User's Guide for detailed HTML and CSV options.
-NOLOGINTIME	Don't display Last Successful Login Time.
-R <level>	Sets restricted mode to disable SQL*Plus commands that interact with the file system. The level can be 1, 2 or 3. The most restrictive is -R 3 which disables all user commands interacting with the file system.
-S	Sets silent mode which suppresses the display of the SQL*Plus banner, prompts, and echoing of commands.
-P <con_iden>	Pings the listener associated with the provided connect identifier and exits SQL*Plus.

<logon> is: {<username>[/<password>][@<connect_identifier>] | / }
[AS {SYSDBA | SYSOPER | SYSASM | SYSBACKUP | SYSDG
| SYSKM | SYSRAC}] [EDITION=value]

Specifies the database account username, password and connect identifier for the database connection. Without a connect identifier, SQL*Plus connects to the default database.

The AS SYSDBA, AS SYSOPER, AS SYSASM, AS SYSBACKUP, AS SYSDG, AS SYSKM and AS SYSRAC options are database administration privileges.

<connect_identifier> can be in the form of Net Service Name or Easy Connect.

@[<net_service_name> | [[/]Host[:Port]/<service_name>] |
[[[protocol:]/]host1{,host12}[:port1]{,host2:port2}[/service_name]
[:server]/instance_name][?[parameter_name=value]
{¶meter_name=value}]]]

<net_service_name> is a simple name for a service that resolves to a connect descriptor.

Example: Connect to database using Net Service Name and the database net service name is ORCL.

sqlplus myusername/mypassword@ORCL

Host specifies the host name or IP address of the database server computer.

Port specifies the listening port on the database server.

<service_name> specifies the service name of the database you want to access.

Example: Connect to database using Easy Connect and the Service name is ORCL.

sqlplus myusername/mypassword@Host/ORCL

The /NOLOG option starts SQL*Plus without connecting to a database.

The EDITION specifies the value for Session Edition.

<start> is: @<URL>|<filename>[.<ext>] [<parameter> ...]

Runs the specified SQL*Plus script from a web server (URL) or the local file system (filename.ext) with specified parameters that will be assigned to substitution variables in the script.

When SQL*Plus starts, and after CONNECT commands, the site profile (e.g. \$ORACLE_HOME/sqlplus/admin/glogin.sql) and the user profile (e.g. login.sql in the working directory) are run. The files may contain SQL*Plus commands.

Refer to the SQL*Plus User's Guide and Reference for more information.

bash-4.4\$ sqlplus / as sysdba

SQL*Plus: Release 23.0.0.0.0 - Production on Thu May 8 10:27:43 2025
Version 23.7.0.25.01

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Connected to:

Oracle Database 23ai Free Release 23.0.0.0.0 - Develop, Learn, and Run for Free
Version 23.7.0.25.01

SQL> create user c##coches identified by coches;

User created.

SQL> grant unlimited tablespace to c##coches;

Grant succeeded.

SQL> grant resource, connect, dba to c##coches;

Grant succeeded.

SQL> connect c##coches/coches@localhost:1521/FREE

Connected.

SQL>