

Oracle database 18c Express edition and SQL Developer installation tutorial (Ubuntu 18.04)

This guide describes how to install Oracle DBMS, where are stored databases that we want to query, and Oracle SQL Developer, a free integrated development environment to execute SQL queries and scripts into a database stored on DBMS.

ORACLE DATABASE 18c EXPRESS EDITION

Install Docker.

(complete guide: <https://docs.docker.com/install/linux/docker-ce/ubuntu/#set-up-the-repository>)

From a bash shell (terminal), execute the following commands.

Add GPG key for Official Docker repository:

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo  
apt-key add -
```

Add Docker repository at ATP resources:

```
sudo add-apt-repository "deb [arch=amd64]  
https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
```

Update the package database with those of the previously added repository:

```
sudo apt-get update
```

Install Docker:

```
sudo apt-get install docker-ce
```

Verify the docker correct installation and the command availability, by launching:

```
docker --version
```

Output: Docker version 19.03.8, build afacb8b

If the output of the command does not show the program version (but instead you get an error message, such as `-bash: docker: command not found`), docker has not been set up correctly.

From the terminal, you should now create a clone of the official Oracle Github repository:

```
git clone https://github.com/oracle/docker-images.git
```

It will create the folder `docker-images`. Move to the directory `docker-images/OracleDatabase/SingleInstance/dockerfiles` with the following command:

```
cd docker-images/OracleDatabase/SingleInstance/dockerfiles
```

Then execute the following command:

```
./buildDockerImage.sh -v 18.4.0 -x
```

It may take several minutes for the command to run. Once finished, check that the docker image has been created correctly:

```
docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
oracle/database	18.4.0-xe	8babb3a5ad97	23 minutes ago	5.89GB

You can find the oracle image (repository oracle/database, con tag 18.4.0-xe).

To run your Oracle Database Express Edition Docker image use the docker run command as follows:

```
docker run --name myxedb -d -p 1521:1521 -e ORACLE_PWD=mysecurepassword  
-e ORACLE_CHARACTERSET=AL32UTF8 oracle/database:18.4.0-xe
```

Use the password you prefer instead of “mysecurepassword” (the password you specify will be used, with the username “system”, to access with SQL Developer).

For a complete guide, go to:

<https://github.com/oracle/docker-images/tree/master/OracleDatabase/SingleInstance>

You can check the status of the container:

```
docker container ls
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	...
ad318d7836a4	oracle/[...]	"/bin/[...] "	5 minutes ago	Up 5 minutes (healthy)	...

When the status is “**Up**”, you can connect with SQL Developer. It may take several minutes.

ORACLE SQL DEVELOPER INSTALLATION

prerequisites: Java 1.8.0

To download the software, connect at link :

<https://www.oracle.com/technetwork/developer-tools/sql-developer/downloads/index.htm>

Download Other Platforms Version without JDK.

SQL Developer 19.2.1 Downloads

[Download the latest SQL Developer Version Here](#)

Version 19.2.1.247.2212 - September 12, 2019

- [Release Notes](#)
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Platform	Download	Notes
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Windows 32-bit/64-bit	Download (410 MB)	<ul style="list-style-type: none">• MD5: ec986f454d747b742830284e6cd46fb0• SHA1: f250ec93895f7b3fb4ae240ef32705cc5392e1b1• Installation Notes• JDK 8 or 11 required
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Oracle ask you to log in. If you don't have an Oracle account, create it.

Create Your Oracle Account

Already have an Oracle Account? [Sign In](#)

Email Address * Your email address is your username.

Password * Passwords must have upper and lower case letters, at least 1 number, not match or contain email, and be at least 8 characters long.

Retype password *

Country *

Name *

Job Title *

Work Phone *

Company Name *

Address *

City *

State/Province *

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From the terminal, execute followed commands:

```
sudo apt-get update
```

```
cd Downloads (or wherever you decided to download the zip file)
```

```
sudo mv sqldeveloper*.zip /usr/local/bin
```

```
cd /usr/local/bin
```

```
sudo unzip sqldeveloper-*-no-jre.zip
```

```
sudo ln -s /usr/local/bin/sqldeveloper/sqldeveloper.sh /bin/sqldeveloper
```

```
sudo rm /usr/local/bin/sqldeveloper*.zip
```

Edit the following script sqldeveloper.sh. Execute the command:

```
sudo vi /usr/local/bin/sqldeveloper/sqldeveloper.sh
```

```
#!/bin/bash
```

```
cd "$(dirname $0)/sqldeveloper/bin && bash sqldeveloper $*
```

Change this text with :

```
#!/bin/bash
```

```
cd /usr/local/bin/sqldeveloper/sqldeveloper/bin && bash sqldeveloper $*
```

Launch SQL Developer with command:

```
sqldeveloper
```

If sqldeveloper command was not found, you can instead execute:

```
/bin/sqldeveloper.sh
```