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

1. Install Docker

Follow the complete guide, following the section Install using the repository

🔗 https://docs.docker.com/install/linux/docker-ce/ubuntu/#set-up-the-repository

2. Download Oracle files

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 `dockerimages/OracleDatabase/SingleInstance/dockerfiles` with the following command:
```
cd docker-images/OracleDatabase/SingleInstance/dockerfiles
```

Then execute the following command:
```
./ buildContainerImage.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=<PASSWORD>
-e ORACLE_CHARACTERSET=AL32UTF8 oracle/database:18.4.0-xe
```

Use the password you prefer instead of `<PASSWORD>` (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)  …
```

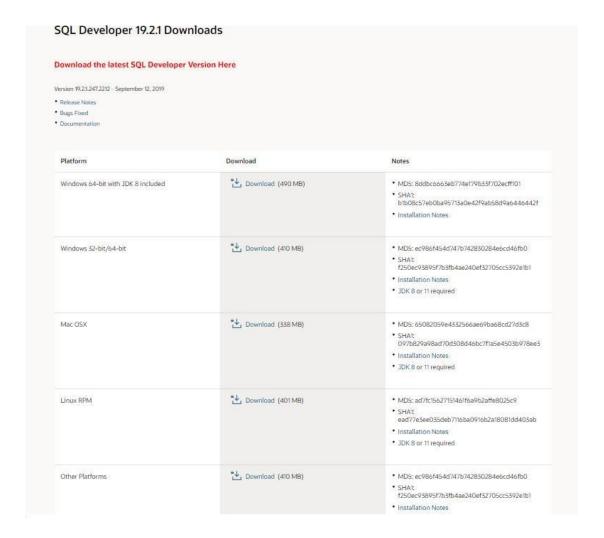When the status is "**Up**", you can connect with SQL Developer. It may take several minutes.

ORACLE SQL DEVELOPER INSTALLATION
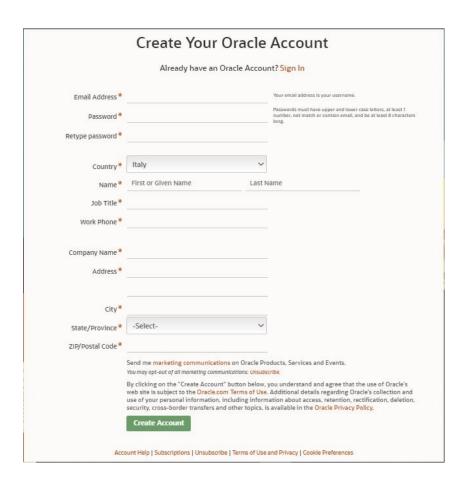
prerequisites: Java 1.8.0

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
* Bugs Fixed
* Documentation

Platform	Download	Notes
Windows 64-bit with JDK 8 included	📥 Download (490 MB)	• MD5: 8ddbc6663eb774e179b33f702ecff101 • SHA1: b1b08c57eb0ba95713a0e42f9ab58d9a6446442f • Installation Notes
Windows 32-bit/64-bit	📥 Download (410 MB)	• MD5: ec986f454d747b742830284e6cd46fb0 • SHA1: f250ec93895f7b3fb4ae240ef32705cc5392e1b1 • Installation Notes • JDK 8 or 11 required
Mac OSX	📥 Download (338 MB)	• MD5: 65082059e4332566ae69ba68cd27d3c8 • SHA1: 097b829a98ad70d308d46bc7f1a5e4503b978ee3 • Installation Notes • JDK 8 or 11 required
Linux RPM	📥 Download (401 MB)	• MD5: ad7fc15627151461f6a9b2affe8025c9 • SHA1: ead77e3ee035deb7116ba0916b2a18081dd403ab • Installation Notes • JDK 8 or 11 required
Other Platforms	📥 Download (410 MB)	• MD5: ec986f454d747b742830284e6cd46fb0 • SHA1: f250ec93895f7b3fb4ae240ef32705cc5392e1b1 • Installation Notes

Oracle ask you to log in. If you don't have an Oracle account, create it.

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`