

Oracle SQL Developer Installation on Ubuntu

Downloading Prerequisite

1) Downloading Oracle SQL Developer and Oracle JDK files from Oracle website.

To download Oracle SQL and Oracle JDK we need an Oracle account, please find username and password for this oracle account. if you don't have oracle account, create new account

Login Id: -[helpdesk](#)

Password: -Help@corpit1

SQL Developer download link - <https://www.oracle.com/tools/downloads/sqldev-downloads.html>

		JDK 8 or 11 required
Linux RPM	Download (338 MB)	- MD5: a998ae16b818d066180f2a48720f75c0 - SHA1: deaae0567f4266356de53e10fc7441f2bfe73d64 Installation Notes - JDK 8 or 11 required
Other Platforms	Download (437 MB)	- MD5: 270ba91438750d85faa0ab0a1c8481b9 - SHA1: b18cfb3adc26fbc1e6e6e454a83d741cf996c41 Installation Notes - JDK 8 or 11 required

Java JDK Download Link - <https://www.oracle.com/java/technologies/javase-jdk11-downloads.html>

Java SE Development Kit 11.0.12

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Product / File Description	File Size	Download
Linux ARM 64 Debian Package	145.98 MB	jdk-11.0.12_linux-aarch64_bin.deb
Linux ARM 64 RPM Package	152.55 MB	jdk-11.0.12_linux-aarch64_bin.rpm
Linux ARM 64 Compressed Archive	169.92 MB	jdk-11.0.12_linux-aarch64_bin.tar.gz
Linux x64 Debian Package	149.74 MB	jdk-11.0.12_linux-x64_bin.deb
Linux x64 RPM Package	156.45 MB	jdk-11.0.12_linux-x64_bin.rpm
Linux x64 Compressed Archive	173.86 MB	jdk-11.0.12_linux-x64_bin.tar.gz
macOS Installer	167.69 MB	jdk-11.0.12_osx-x64_bin.dmg
macOS Compressed Archive	168.10 MB	jdk-11.0.12_osx-x64_bin.tar.gz

Install Oracle JDK 11 and Oracle SQL Developer

2) Open your terminal, go to directory where your prerequisite files are located. Default location is Downloads

```
File Edit View Search Terminal Help
dyogesh@DYOGESH-LIN:~/Downloads$ ls
anyconnect-linux64-4.10.01075-predeploy-k9
anyconnect-linux64-4.10.01075-predeploy-k9.tar.gz
authorize.html
'download (1).html'
download.html
'Installing+Cisco+Any+Connect+(VPN+client)+on+Windows,+Linux+and+Mac (1).html'
'Installing+Cisco+Any+Connect+(VPN+client)+on+Windows,+Linux+and+Mac.html'
jdk-11.0.12_linux-x64_bin.deb
LVVPN-IN-SSL-Cert-22-12-2020.crt
LVVPN-US-SSL-Cert-22-12-2020.crt
'onedrive (1).html'
onedrive.html
Outlook.html
QA_DSI_UN_JobSch_AShah_2224234234.csv
QA_DSI_UN_lvinternal_As_FTP_4_4.csv
QA_DSI_UN_lvinternal_AShah_1.csv
QA_DSI_UN_lvinternal_AShah_Duplicate_PhNo_1.csv
QAE_lvinternal_AShah_1.csv
sqldeveloper-21.2.1.204.1703-no-jre.zip
teamviewer_15.21.4_amd64.deb
dyogesh@DYOGESH-LIN:~/Downloads$
```

3) Install **Oracle JDK** by using below Command (Note : don't install through apt , it's not compatible with apt installation)

sudo dpkg -i jdk-11.0.12_linux-x64_bin.deb

Once Oracle JDK is Installed you can find installed packages in the following location to verify.

ll /usr/lib/jvm/jdk-11.0.12/

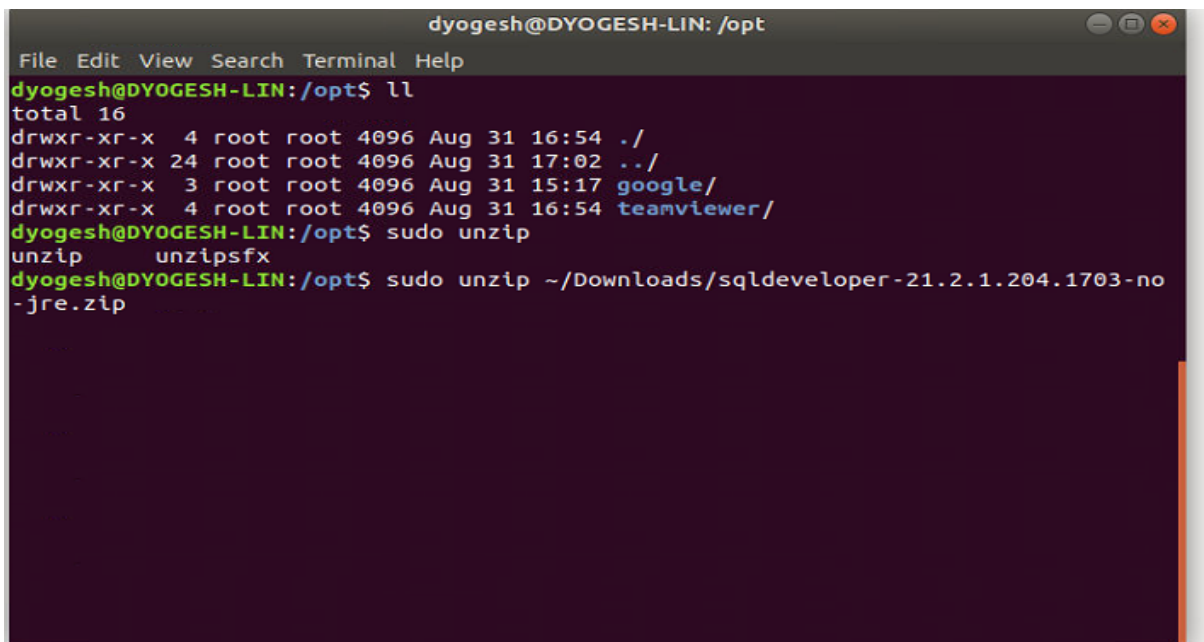
```
dyogesh@DYOGESH-LIN:~/Downloads$ ll /usr/lib/jvm/
total 12
drwxr-xr-x  3 10668 10668 4096 Sep  6 11:35 ./
drwxr-xr-x 130 root   root   4096 Sep  6 11:35 ../
drwxr-xr-x  9 10668 10668 4096 Sep  6 11:35 jdk-11.0.12/
dyogesh@DYOGESH-LIN:~/Downloads$ ll /usr/lib/jvm/jdk-11.0.12/
total 44
drwxr-xr-x  9 10668 10668 4096 Sep  6 11:35 ./
drwxr-xr-x  3 10668 10668 4096 Sep  6 11:35 ../
drwxr-xr-x  2 10668 10668 4096 Sep  6 11:35 bin/
drwxr-xr-x  4 10668 10668 4096 Sep  6 11:35 conf/
drwxr-xr-x  3 10668 10668 4096 Sep  6 11:35 include/
drwxr-xr-x  2 10668 10668 4096 Sep  6 11:35 jmods/
drwxr-xr-x 73 10668 10668 4096 Sep  6 11:35 legal/
drwxr-xr-x  6 10668 10668 4096 Sep  6 11:35 lib/
drwxr-xr-x  3 10668 10668 4096 Sep  6 11:35 man/
-r--r--r--  1 10668 10668 160 Jun  8 16:04 README.html
-rw-r--r--  1 10668 10668 1281 Jun  8 16:04 release
dyogesh@DYOGESH-LIN:~/Downloads$
```

4) Copy JDK installed path, default location is `/usr/lib/jvm/jdk-11.0.12/` (This location requires to tell Oracle DQL Developer to where Oracle JDK is located)

5) Installation of Oracle SQL Developer, in this step we need to Unzip Downloaded Oracle SQL Developer file into `/opt` path.

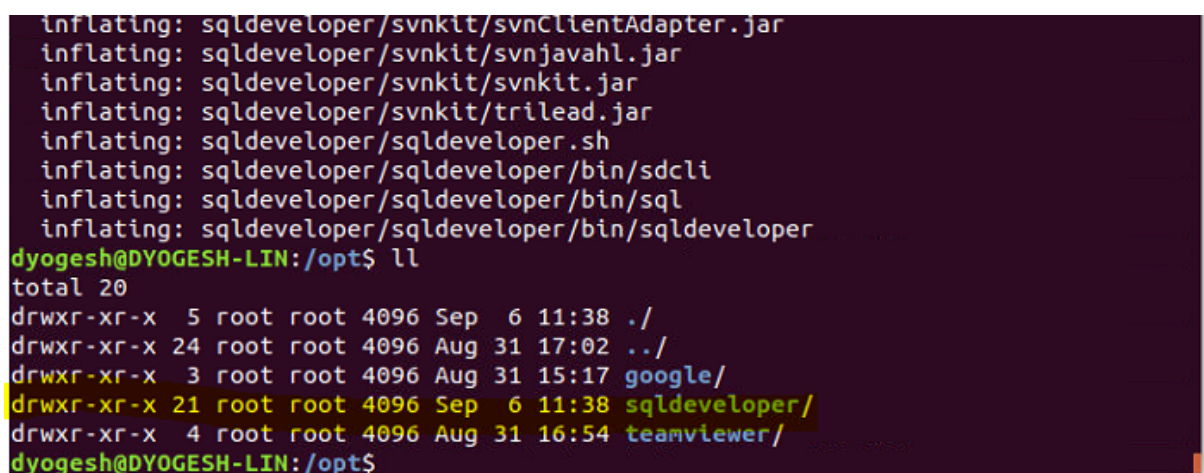
`cd /opt`

`sudo unzip ~/Downloads/sqldeveloper-21.2.1.204.1703-no-jre.zip`



```
dyogesh@DYOGESH-LIN: /opt
File Edit View Search Terminal Help
dyogesh@DYOGESH-LIN:/opt$ ll
total 16
drwxr-xr-x  4 root root 4096 Aug 31 16:54 ./
drwxr-xr-x 24 root root 4096 Aug 31 17:02 ../
drwxr-xr-x  3 root root 4096 Aug 31 15:17 google/
drwxr-xr-x  4 root root 4096 Aug 31 16:54 teamviewer/
dyogesh@DYOGESH-LIN:/opt$ sudo unzip
unzip      unzipsfx
dyogesh@DYOGESH-LIN:/opt$ sudo unzip ~/Downloads/sqldeveloper-21.2.1.204.1703-no-jre.zip
```

6) Once Unzip done you can find Sqldeveloper Directory under `/opt`



```
inflating: sqldeveloper/svnkit/svnClientAdapter.jar
inflating: sqldeveloper/svnkit/svnjavahl.jar
inflating: sqldeveloper/svnkit/svnkit.jar
inflating: sqldeveloper/svnkit/trilead.jar
inflating: sqldeveloper/sqldeveloper.sh
inflating: sqldeveloper/sqldeveloper/bin/sdcli
inflating: sqldeveloper/sqldeveloper/bin/sql
inflating: sqldeveloper/sqldeveloper/bin/sqldeveloper
dyogesh@DYOGESH-LIN:/opt$ ll
total 20
drwxr-xr-x  5 root root 4096 Sep  6 11:38 ./
drwxr-xr-x 24 root root 4096 Aug 31 17:02 ../
drwxr-xr-x  3 root root 4096 Aug 31 15:17 google/
drwxr-xr-x 21 root root 4096 Sep  6 11:38 sqldeveloper/
drwxr-xr-x  4 root root 4096 Aug 31 16:54 teamviewer/
dyogesh@DYOGESH-LIN:/opt$
```

7) Go inside the sqldeveloper directory and there you will find **sqldeveloper.sh**. Execute sqldeveloper.sh script with following commands

cd sqldeveloper

sudo chmod +x ./sqldeveloper.sh to change execute permissions if not available

sudo ./sqldeveloper.sh

8) When you run sqldeveloper.sh script it will ask Oracle JDK Path like we discussed in 4 th point.

Please copy that path and paste it here, please refer picture below

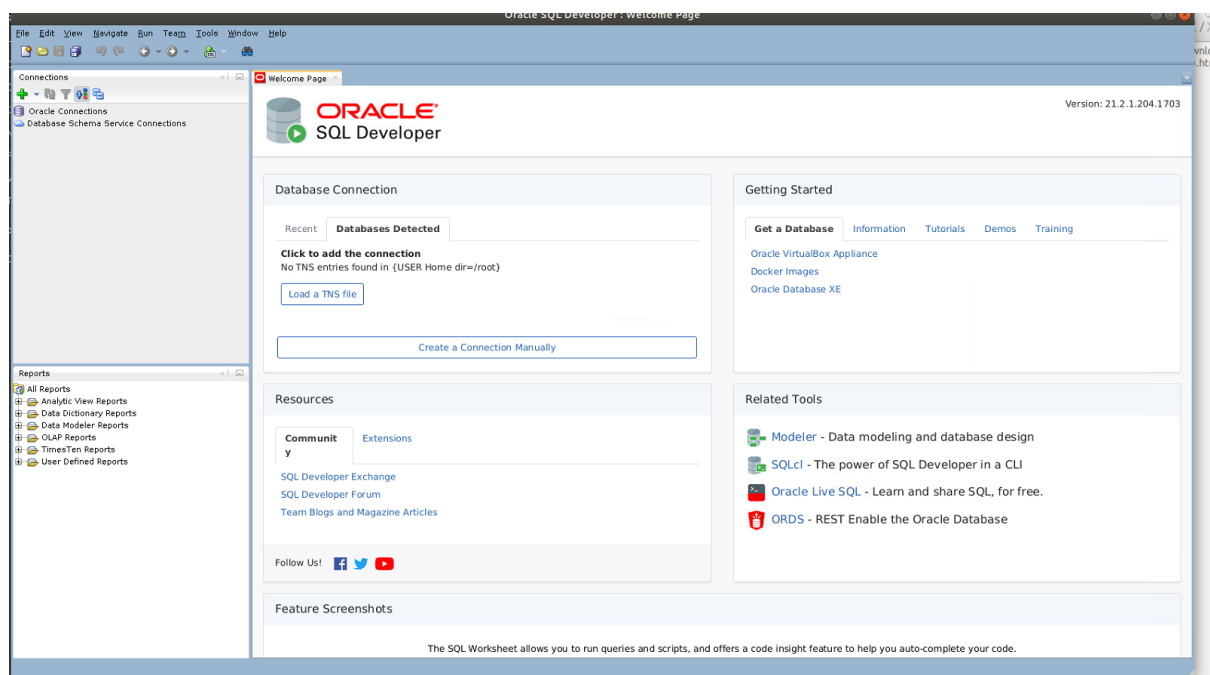
Oracle JDK path as per 4 th line is **/usr/lib/jvm/jdk-11.0.12/**

```
dyogesh@DYOGESH-LIN:/opt/sqldeveloper$ sudo ./sqldeveloper.sh

Oracle SQL Developer
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Type the full pathname of a JDK installation (or Ctrl-C to quit), the path will
be stored in /home/dyogesh/.sqldeveloper/21.2.1/product.conf
/usr/lib/jvm/jdk-11.0.12/
```

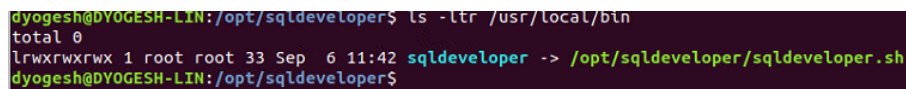
9) Once Oracle JDK path pasted successfully, then you will see Oracle SQL Developer starting like this



Creating a Shortcut

10) Creating shortcut makes thing difficult to operate. Please follow below command to create soft link.

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



```
dyogesh@DYOGESH-LIN:/opt/sqldeveloper$ ls -ltr /usr/local/bin
total 0
lrwxrwxrwx 1 root root 33 Sep  6 11:42 sqldeveloper -> /opt/sqldeveloper/sqldeveloper.sh
dyogesh@DYOGESH-LIN:/opt/sqldeveloper$
```

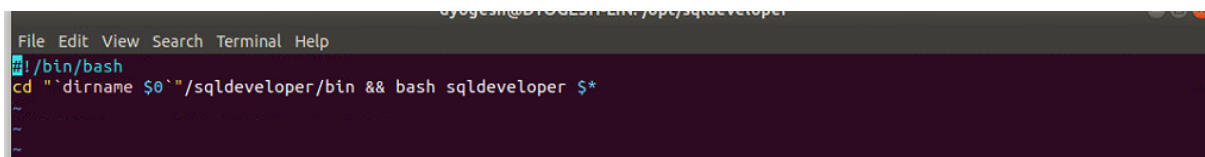
11) Now if you open terminal from any directory and execute command **sqldeveloper**, you will get an error. Because we haven't changed path in sqldeveloper.sh script.

sudo apt install vim – in case if vim not installed

cd /opt/sqldeveloper – moving to sqldeveloper directory

sudo vim ./sqldeveloper.sh – We have to edit with Sudo.

if you run these command out put figure should something like this.



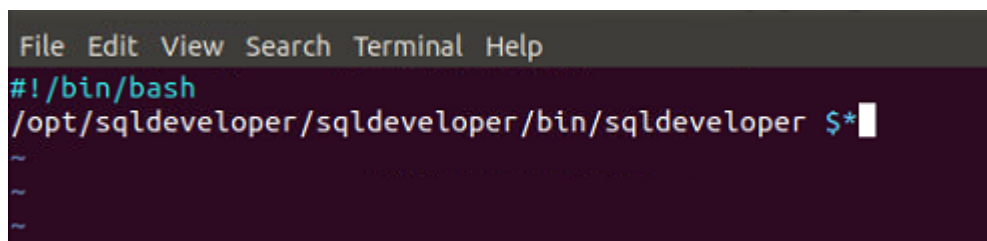
```
dyogesh@DYOGESH-LIN:/opt/sqldeveloper$
File Edit View Search Terminal Help
#!/bin/bash
cd "$(dirname $0)"/sqldeveloper/bin && bash sqldeveloper $*
~
~
~
```

12) This is default location in the script, this path we need to change to

/opt/sqldeveloper/sqldeveloper/bin/sqldeveloper \$*

Note:- If you use Vim editor, to edit need to press letter **i**, Then paste path with Mouse and use **Esc** key then **:wq** to save& exit

Result should like in the following picture.



```
File Edit View Search Terminal Help
#!/bin/bash
/opt/sqldeveloper/sqldeveloper/bin/sqldeveloper $*
~
~
~
```

13) Once Save and Exit, then you can run SQL Developer from any directory with ***sudo sqldeveloper*** command like shown in the following picture.

```
dyogesh@DYOGESH-LIN:~$ sudo sqldeveloper
```

```
Oracle SQL Developer  
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```

```
Warning: Nashorn engine is planned to be removed from a future JDK release  
Warning: Nashorn engine is planned to be removed from a future JDK release
```

