SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX

ABOUT SQL DEVELOPER

SQL Developer is the Oracle Database IDE (Integrated Development Environment); a free GUI.
SQL Developer allows database developers and administrators to do their tasks in fewer clicks.
You can connect to any target Oracle database Schema by using Standard database authentication.
It supports Oracle database 10g, 11g **&** 12c and will run on any Operating System that supports JAVA.

SQL DEVELOPER FOR DEVELOPERS

SQL Developer provides to create/browse/modify database objects.
Can be used to execute SQL statements and SQL Scripts.
Can be run/edit and debug PL/SQL codes.

It provides powerful editors for working with SQL, PL/SQL Stored Java Procedures and XML.
It's possible to run SQL Queries, Generate Execution Plans, export data to the desired format such as (XML, EXCEL, HTML and PDF).

SQL DEVELOPER FOR DBA'S

- Data Pump, Recovery Manager (RMAN), Oracle Auditing, User and Role management.
- Storage management (ability add required space to the tablespace).
- Diagnostic Pack features – (ADDM, ASH, AWR).
- Some more features of SQL DEVELOPER from **here**

REQUIRED ADDITONAL SOFTWARES

SQL Developer requires **Java**. Download the latest **Java Runtime Environment** from Sun's Java site.
SQL Developer needs JDK Software to be installed on your system. Oracle recommends that you use latest available JDK (JDK 8 or later) which you can download from following links.

http://www.oracle.com/technetwork/java/javase/downloads/index.html
http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

No need to download JDK software separately because Windows 64-bit SQL Developer kit that includes JDK latest version (JDK 8), so directly you can download and install it.
FYI: If you do not have the Oracle OTN account, create a new account for download.

DOWNLOAD SQL DEVELOPER

Download the SQL Developer on the following link.

http://www.oracle.com/technetwork/developer-tools/sql-developer/downloads/index.html

- Click on Accept License Agreement.
- Download Windows 64-bit because it includes JDK 8 (LATEST VERSION).
- Sigh in to download SQL Developer tool kit.
- Save the file anywhere on your system.
- Unzip sqldeveloper-4.1.3.20.78-x64

SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX

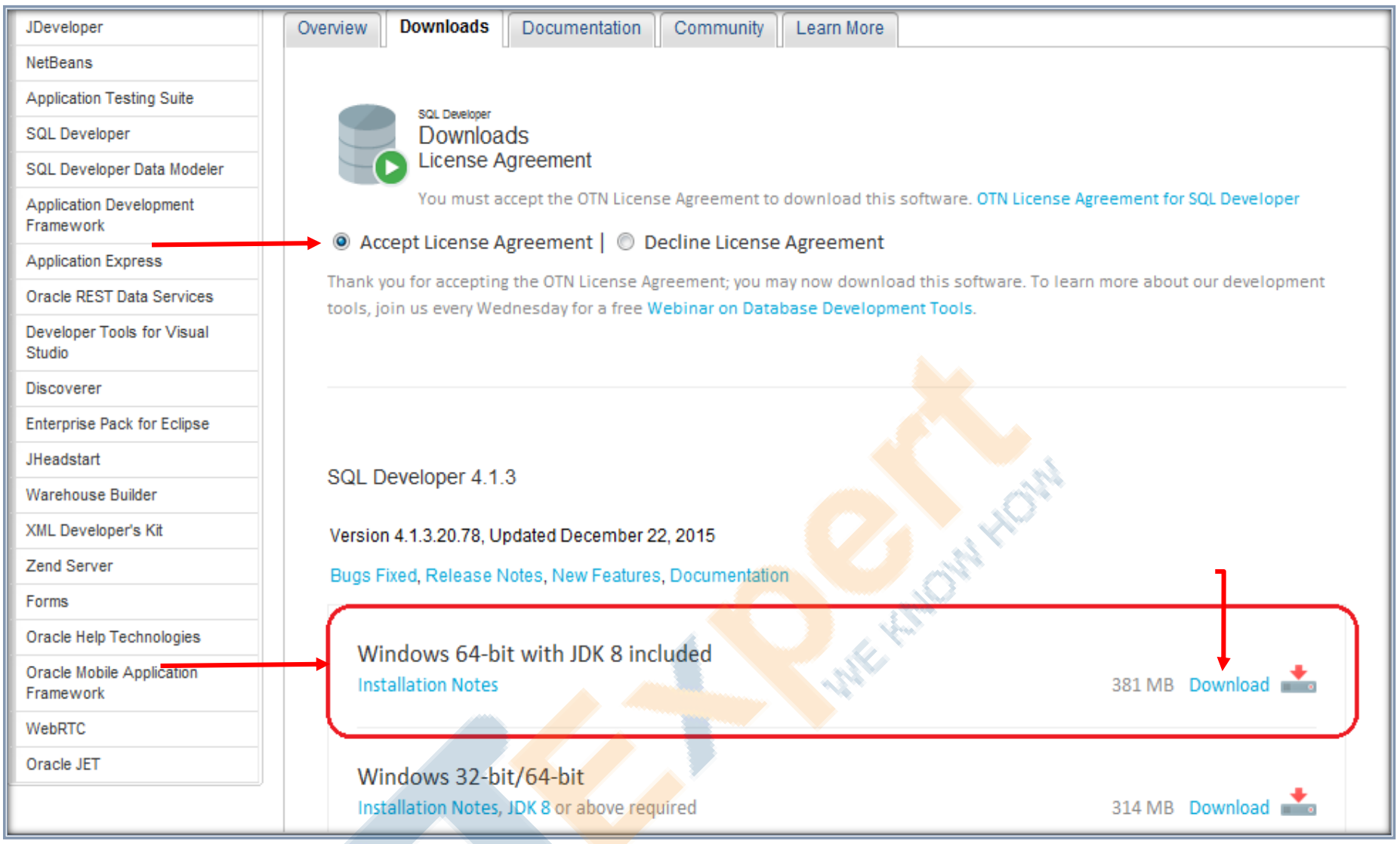
SQL Developer installation itself is simple.

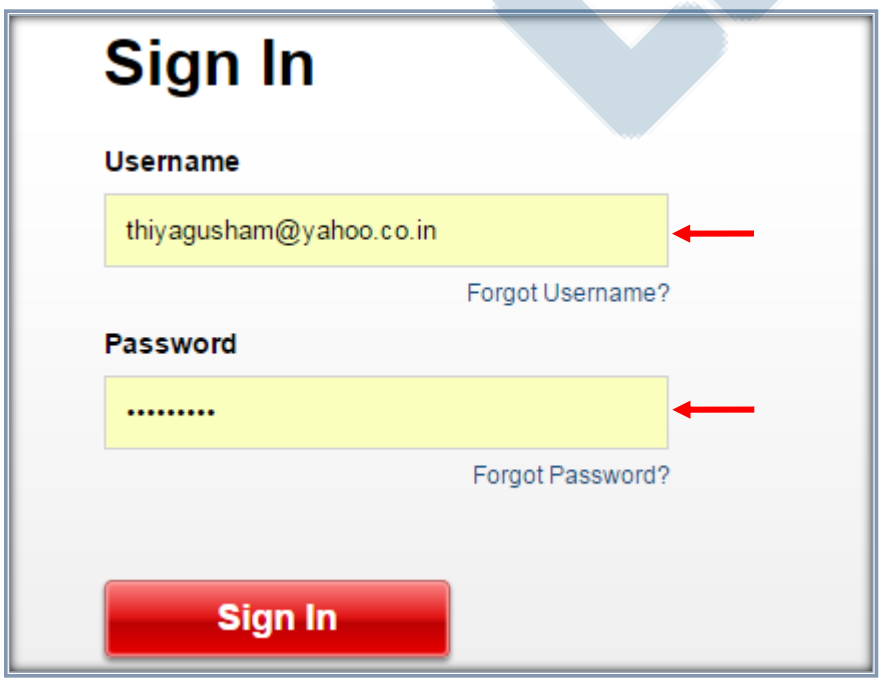
SQL Developer tool does not require an installer.

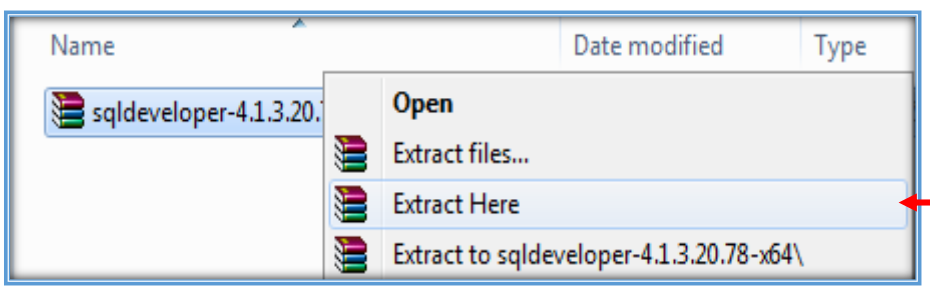
Unzip the downloaded SQL Developer kit and double-click sqldeveloper.exe to start SQL Developer.

If you are asked to enter the full path of JDK, Click Browse and enter the full path of JDK.

On a windows system path would be c:\Program files\JAVA\jdk1.8.0\ → (Installed java version)

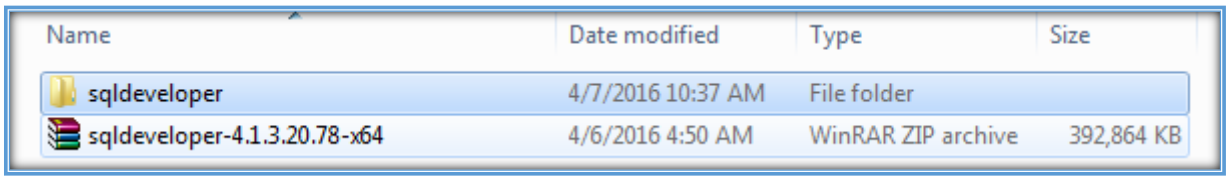


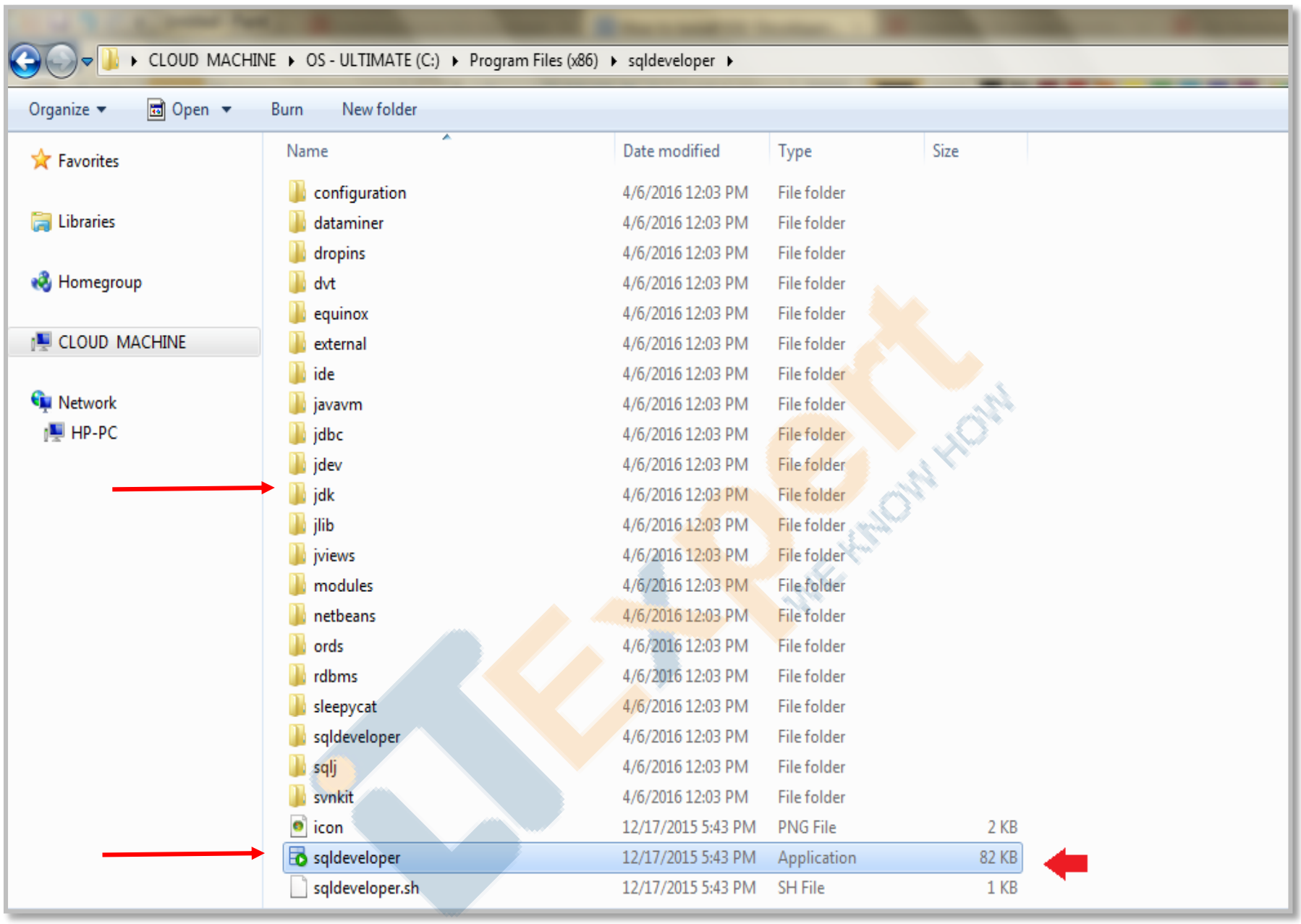




SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX

Once file has been extracted, you would get sqldeveloper folder. You can place sqldeveloper folder under root directory → e.g - c:\Program Files(x86)\sqldeveloper





CREATE A SHORTCUT ON DESKTOP

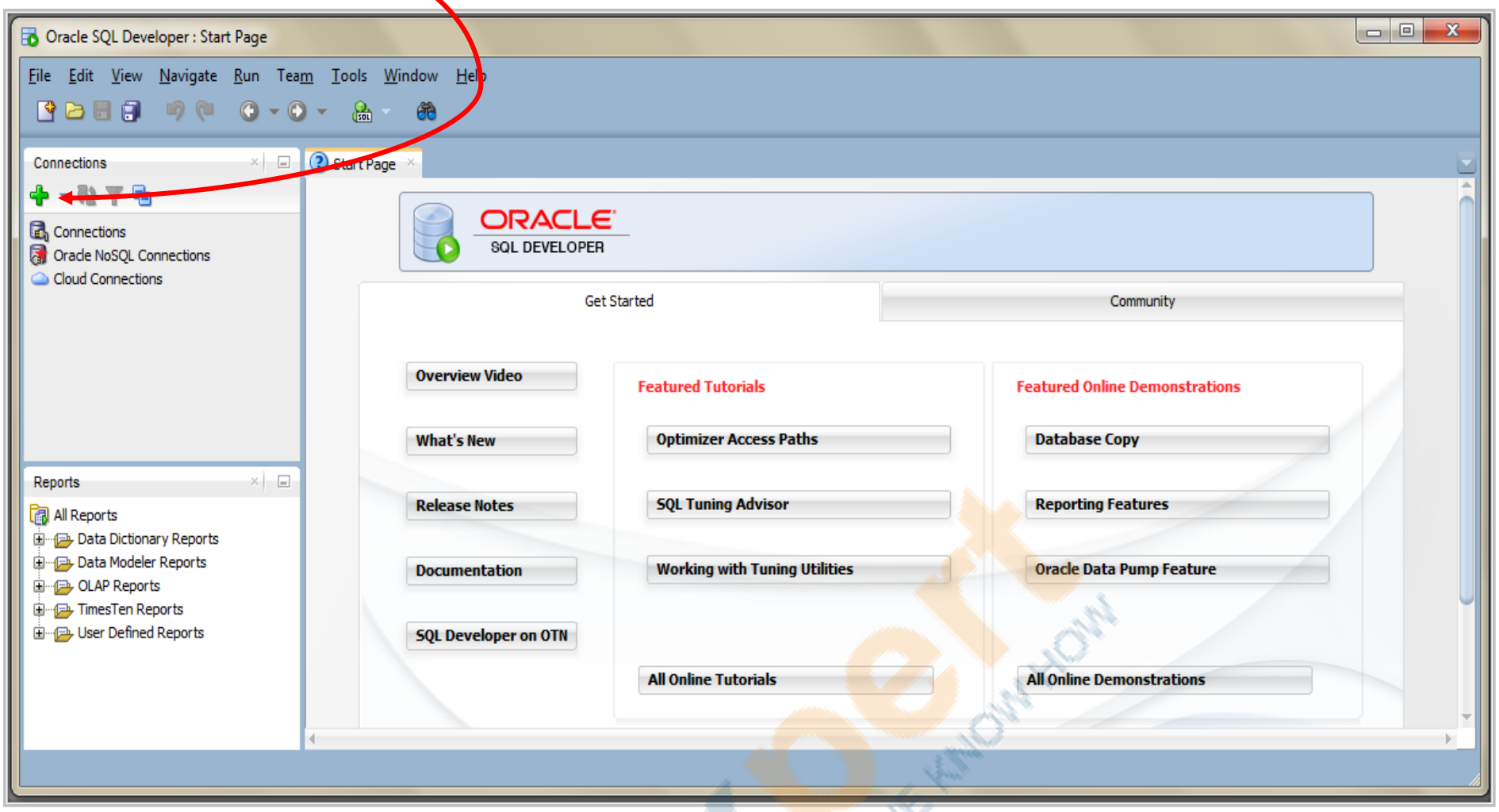
Right click on sqldeveloper → send to → Desktop (create short cut)

Right click on sqldeveloper → Run as administrator

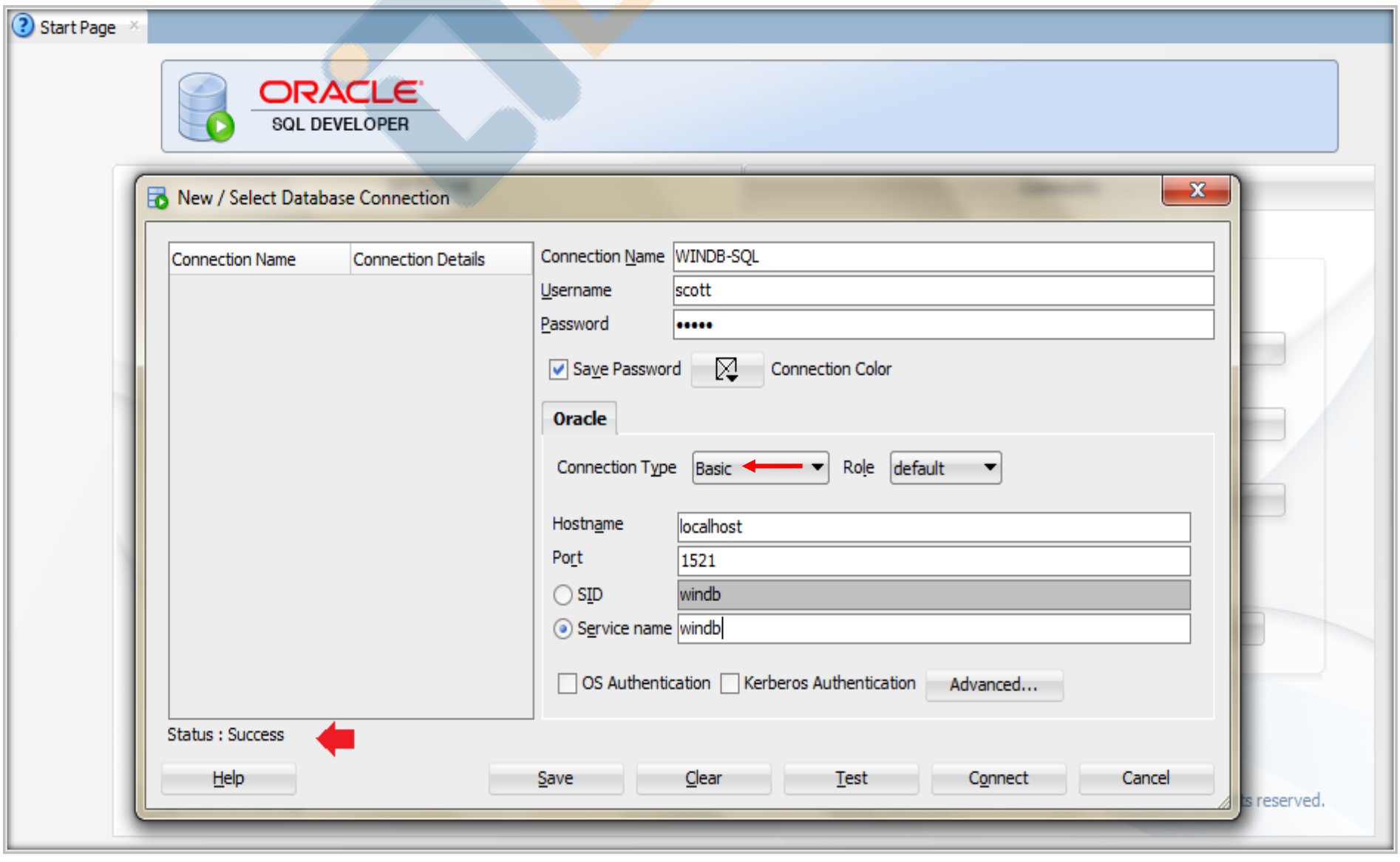
SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX

CREATE A DATABASE CONNECTION

Click on Green + symbol

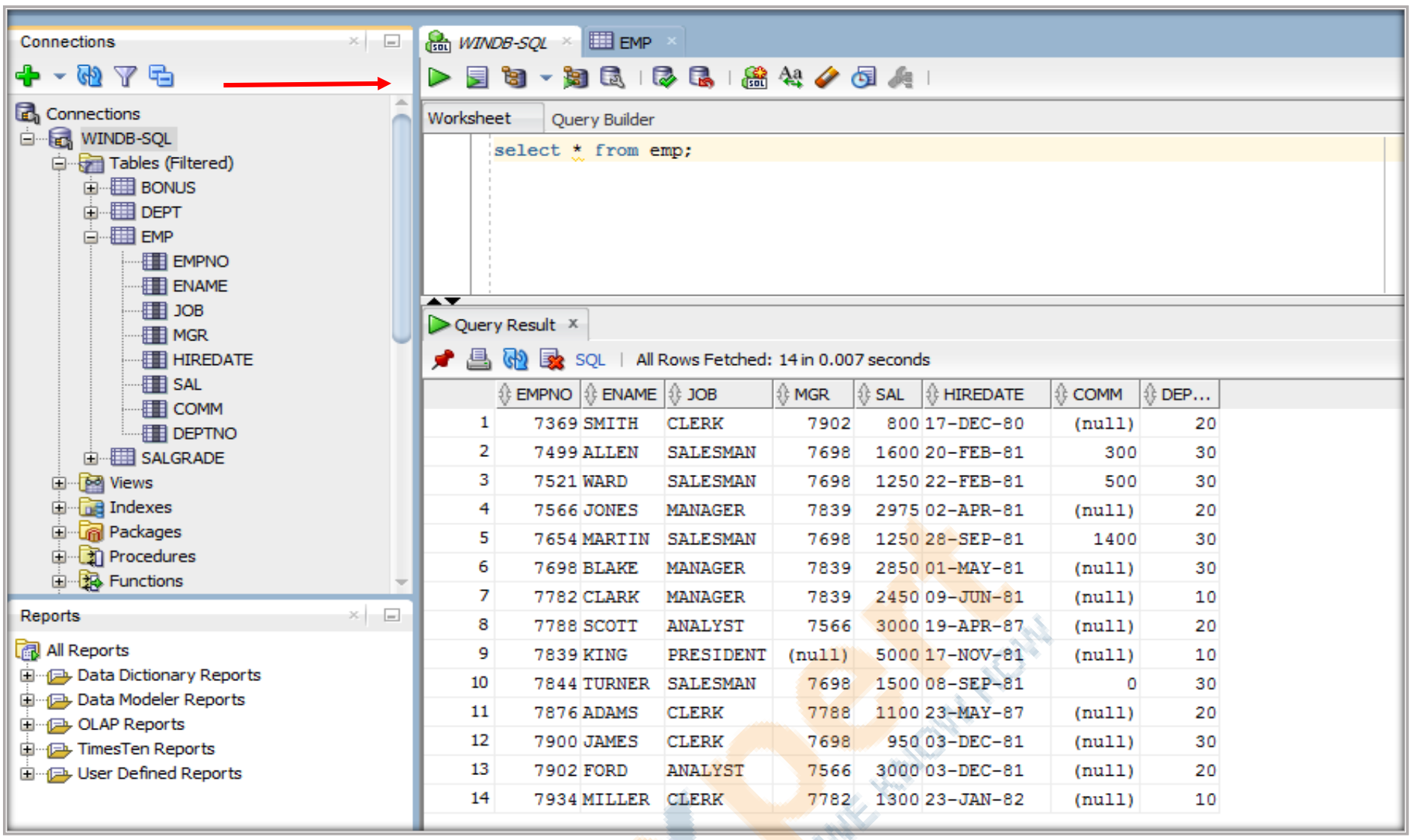


CONNECTING A LOCAL DATABASE



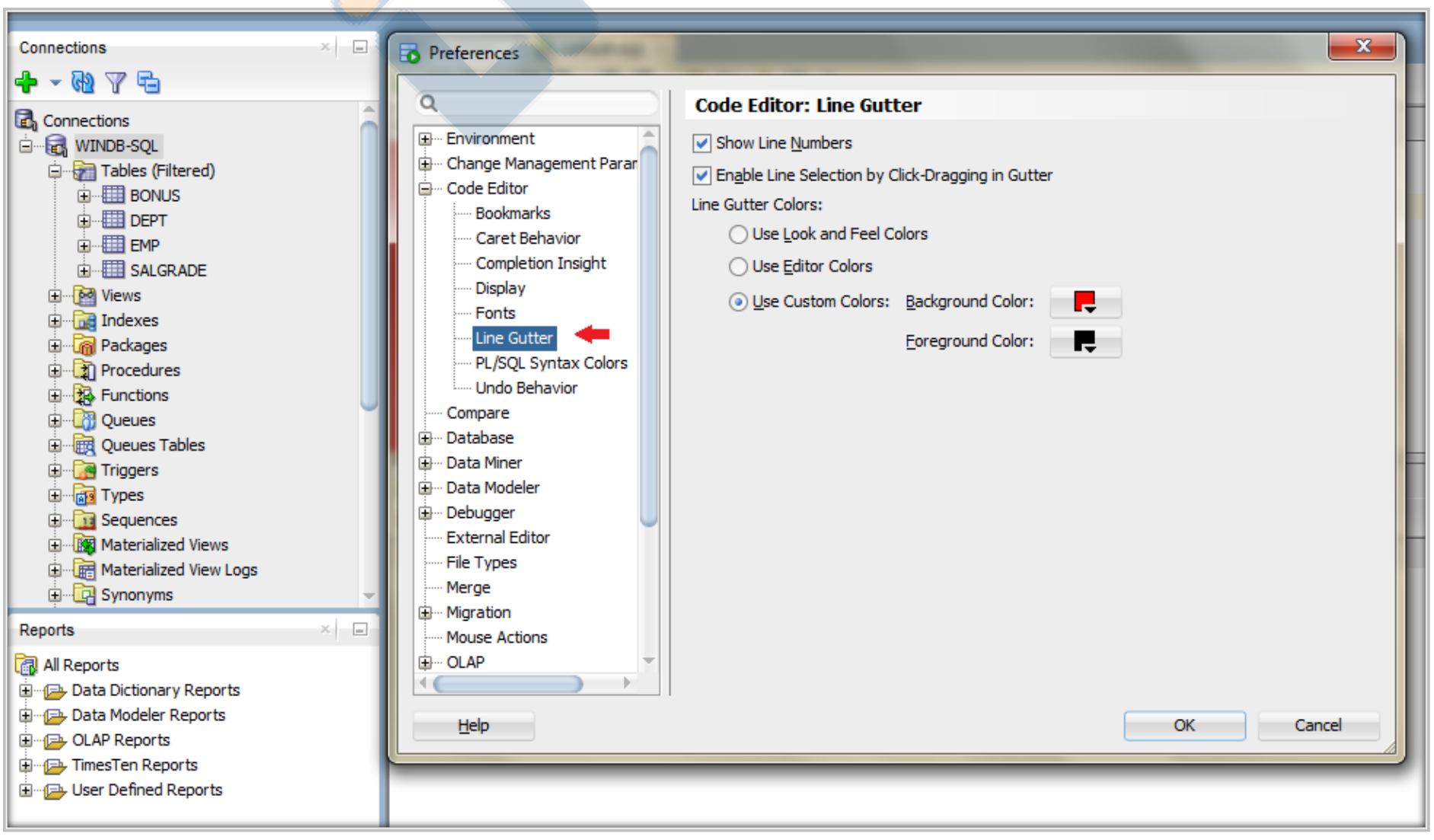
SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX

DATABASE (WINDB) CONNECTED

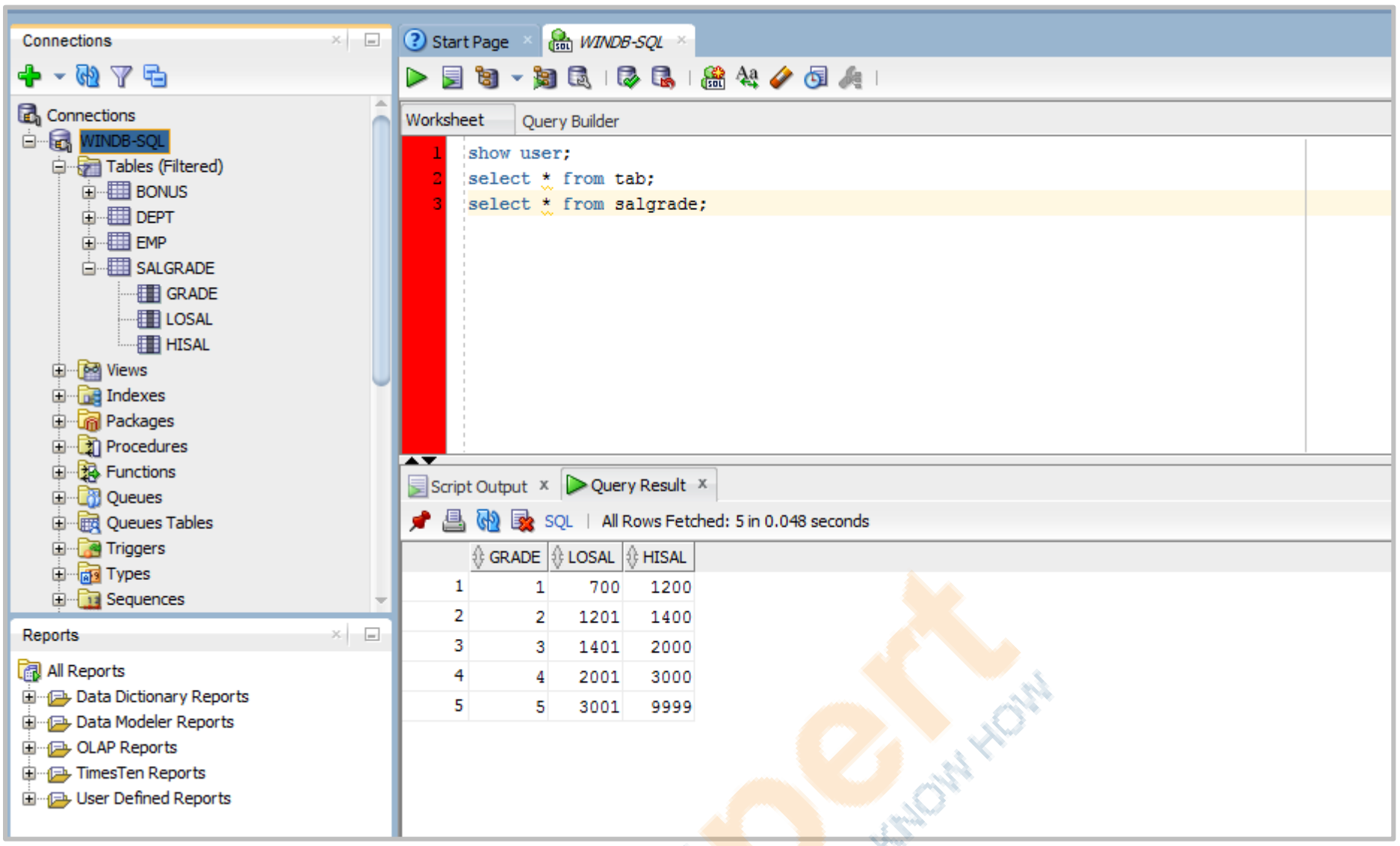


ENABLING LINE NUMBERS IN SQL-DEVELOPER

Tools → Preferences → code editor → Line Gutter → Show Line numbers

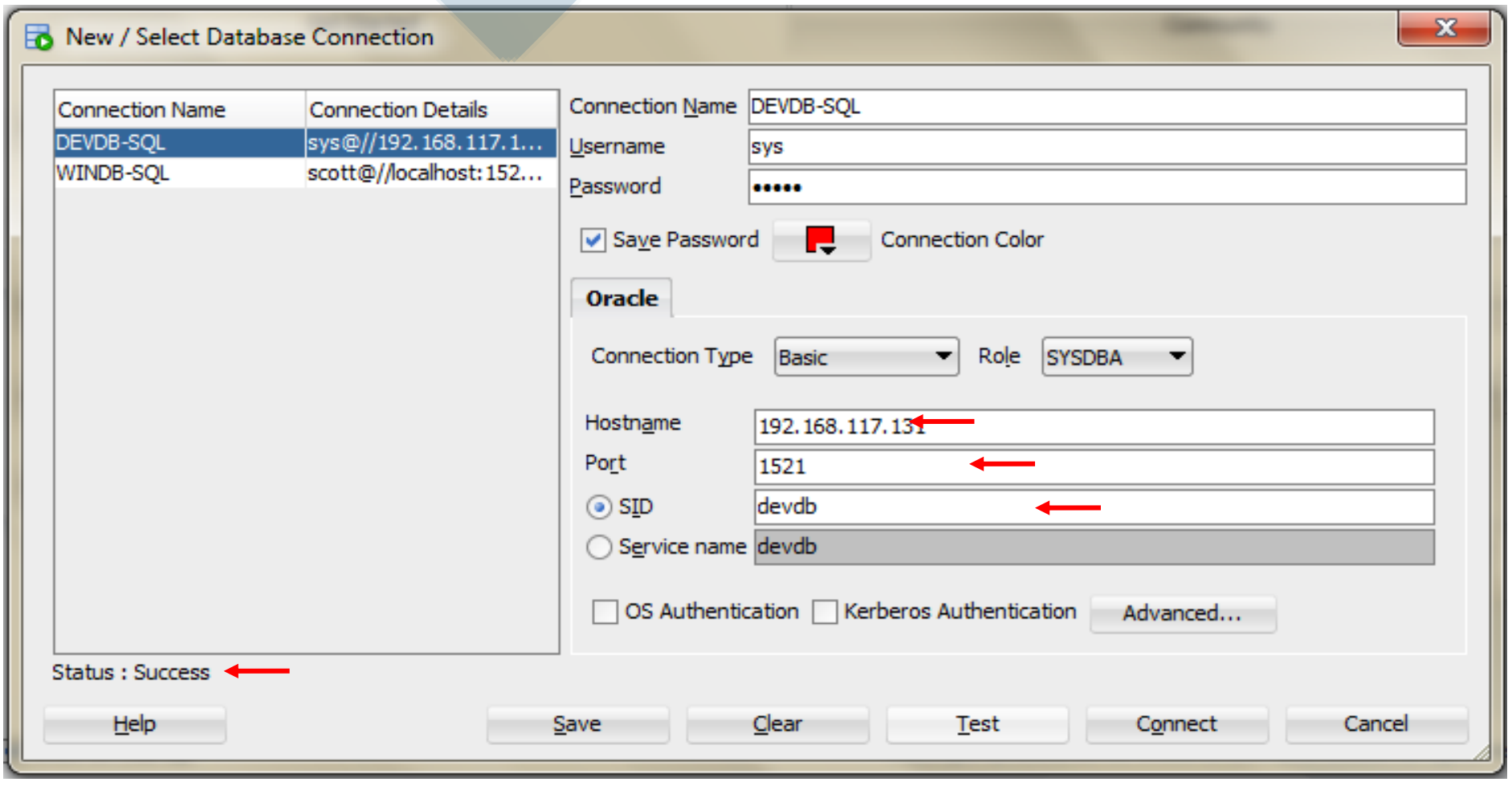


SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX



CONNECT A REMOTE DATABASE

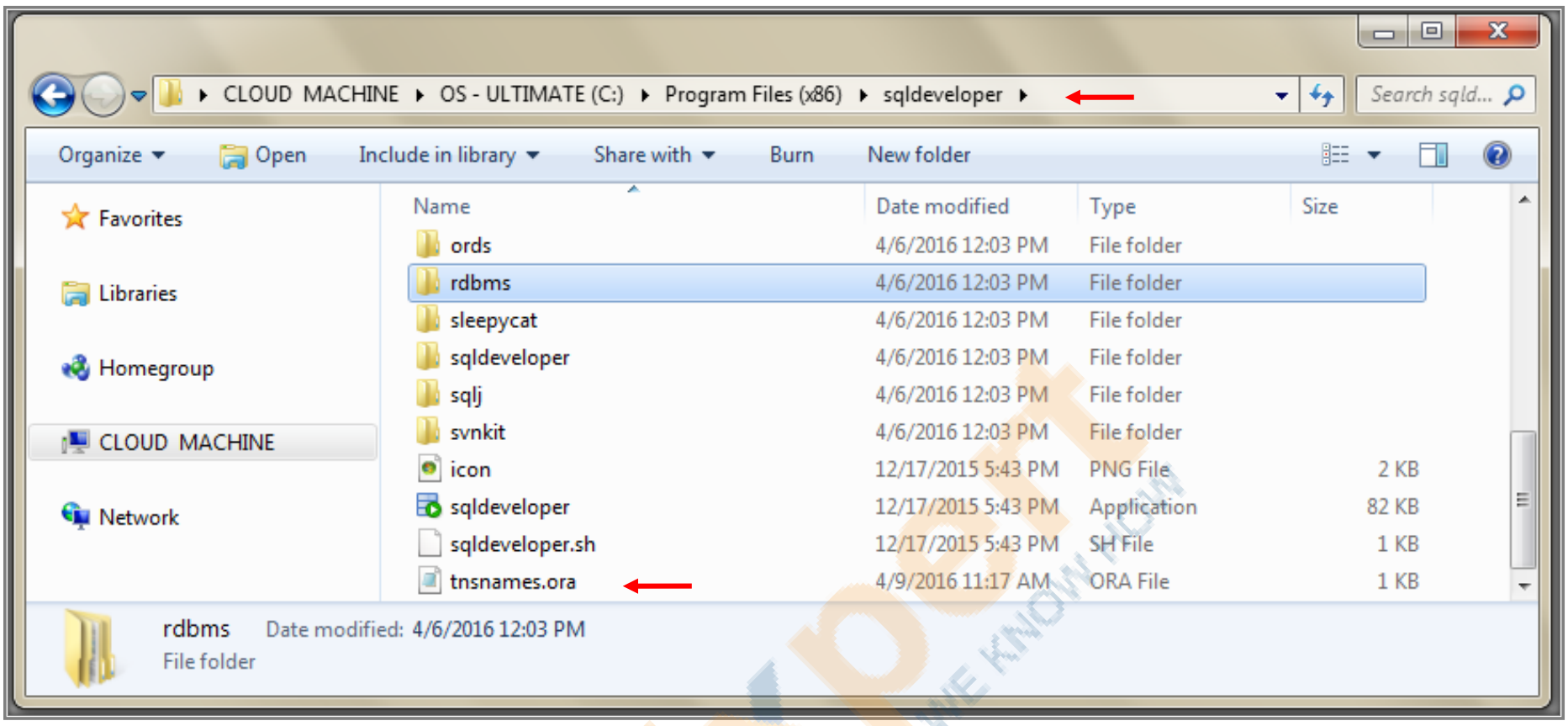
To access any Oracle database, whether local or remote (remote over a network, or "remote" in a guest OS running under Windows), tnsnames.ora is NOT required. It is merely a convenience. You get to use the TNS alias from there rather than specify the **host:port:sid** or **host:port:service** needed for the **Basic connection type** in your connection details entry.



SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX

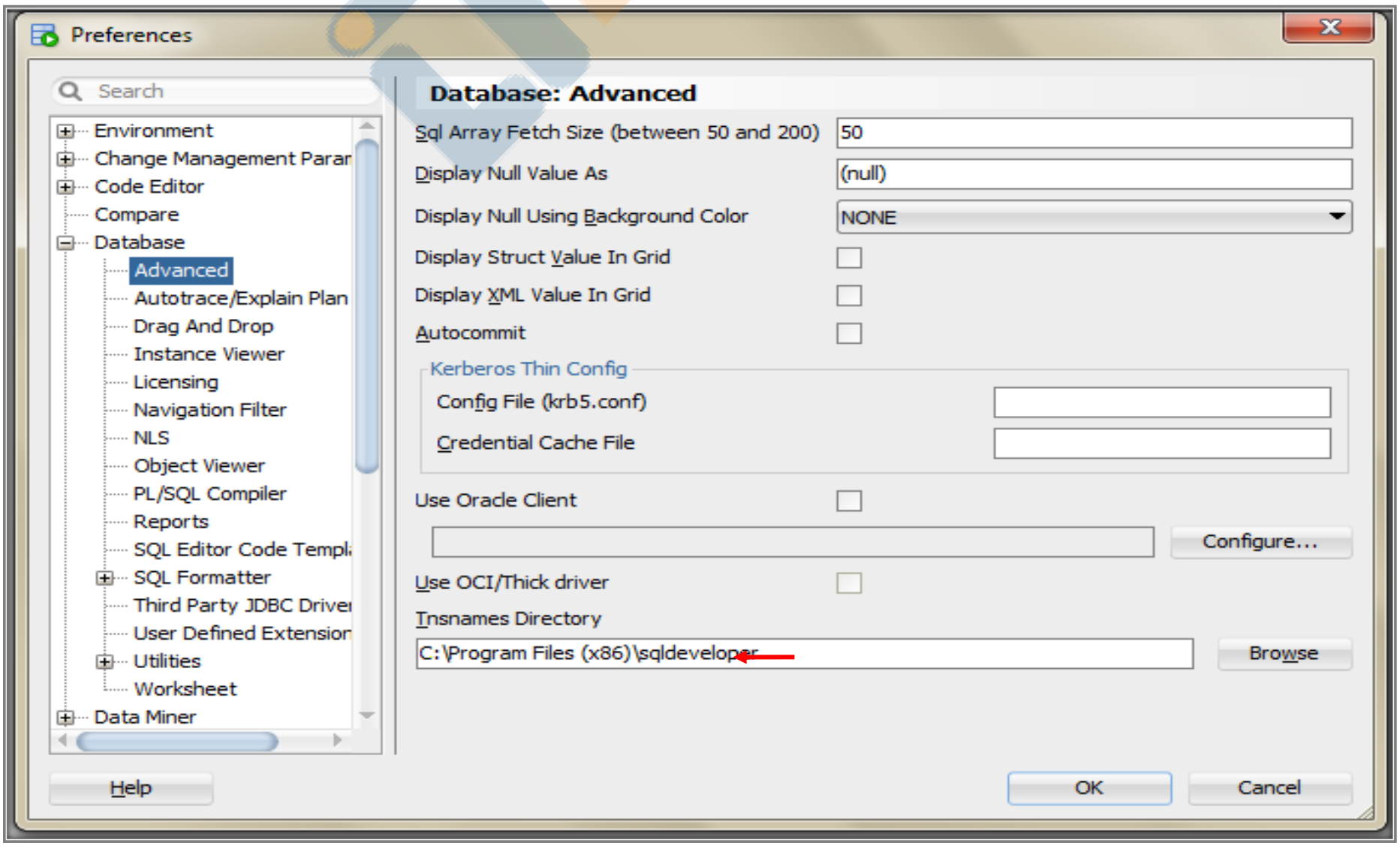
ON SQL DEVELOPER AND TNSNAMES.ORA

No Oracle Client or HOME is necessary for SQL Developer to use a tnsnames.ora file. If you don't install a client or HOME then you will NOT have a tnsnames.ora file but you can still create one and put it somewhere. i.e. Make a copy of the ***tnsnames.ora*** file, then you can simply tell where it is? It has nothing to do with any Oracle client software.



Tools → Preferences → Database → Advanced

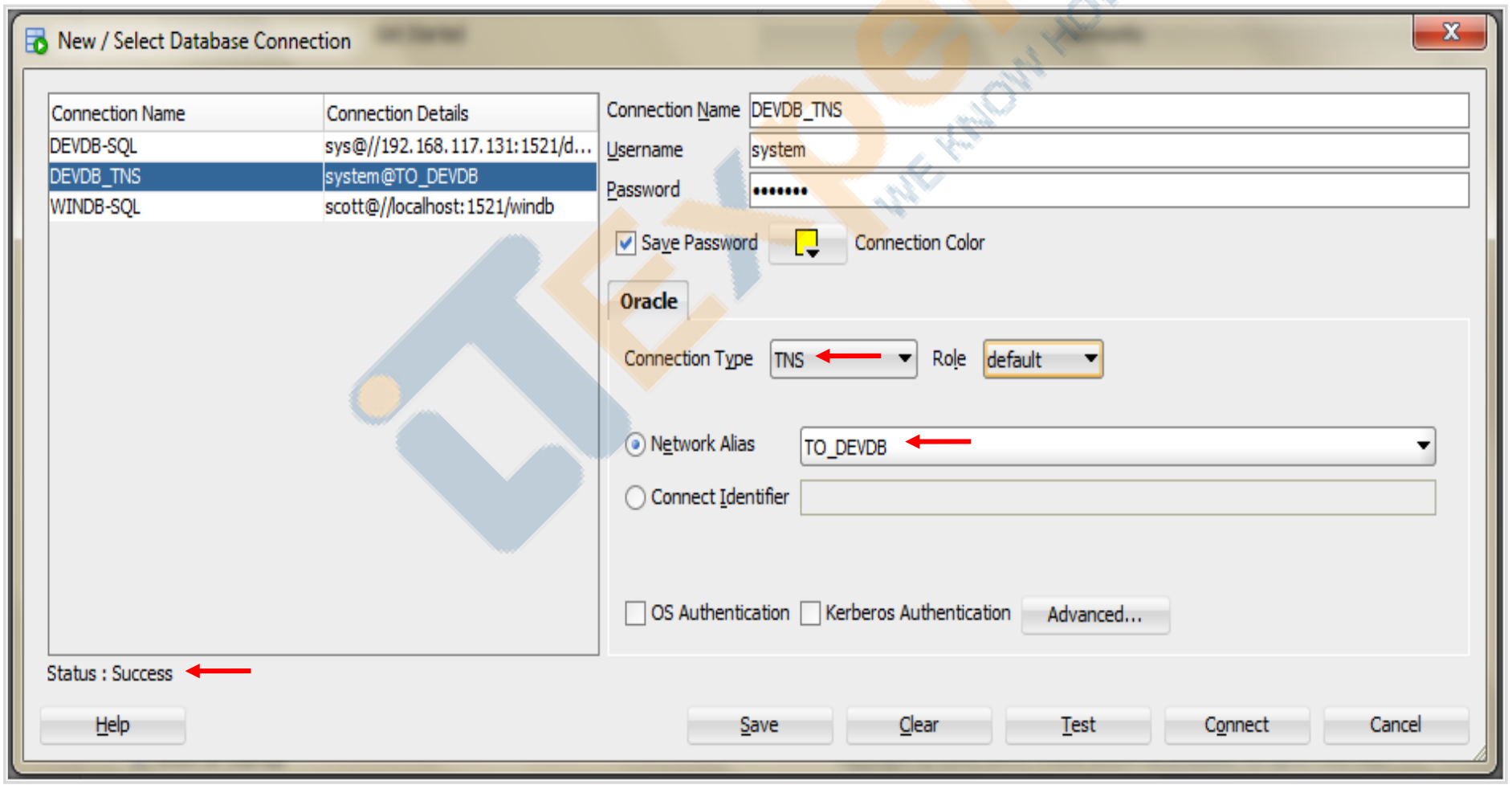
Tnsnames Directory to point to parent directory of tnsnames.ora file.



TNSNAMES.ORA FILE

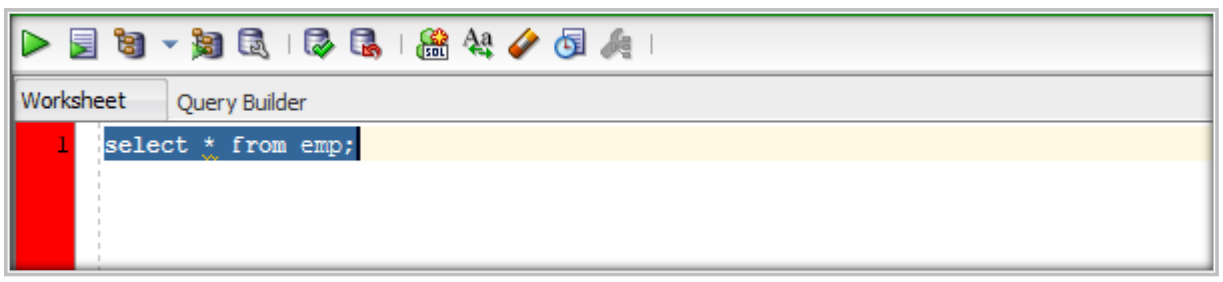
```
# tnsnames.ora Network Configuration File:
# C:\Program Files(x86)\sqldeveloper\tnsnames.ora
# Generated by Oracle configuration tools.

TO_DEVDB =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.117.131)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = devdb)
    )
  )
```

In the New / Select Database Connection dialog,
use the **TNS → Network Alias** instead of a **Connection Type** of **Basic.**



The entries from your tnsnames.ora file should appear in the **Network Alias** drop-down list.
You don't need an Oracle Client or ORACLE_HOME to have SQL Developer see and read a TNSNAMES file.
Source information you can get it from **here**.

EXPORTING DATA TO DESIRED FORMAT



SCOTT.EMP TABLE DATA

Script Output | Query Result

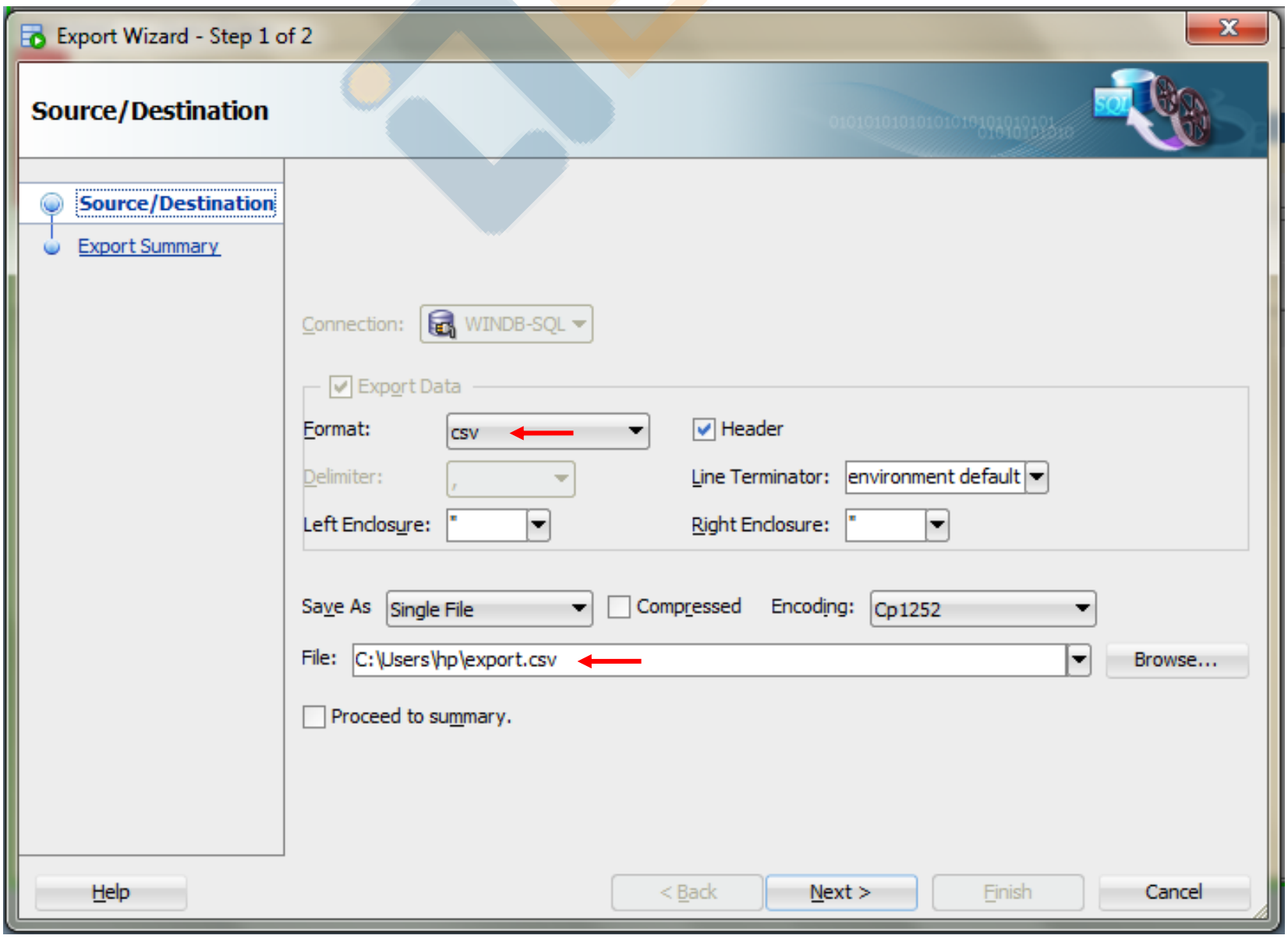
SQL | All Rows Fetched: 14 in 0.003 seconds

	EMPNO	ENAME	JOB	MGR	SAL	HIREDATE	COMM	DEP...
1	7369	SMITH	CLERK	7902	800	17-DEC-80	(null)	20
2				7698	1600	20-FEB-81	300	30
3				7698	1250	22-FEB-81	500	30
4				7839	2975	02-APR-81	(null)	20
5				7698	1250	28-SEP-81	1400	30
6				7839	2850	01-MAY-81	(null)	30
7	7782	CLARK	MANAGER	7839	2450	09-JUN-81	(null)	10
8	7788	SCOTT	ANALYST	7566	3000	19-APR-87	(null)	20
9	7839	KING	PRESIDENT	(null)	5000	17-NOV-81	(null)	10
10	7844	TURNER	SALESMAN	7698	1500	08-SEP-81	0	30
11	7876	ADAMS	CLERK	7788	1100	23-MAY-87	(null)	20
12	7900	JAMES	CLERK	7698	950	03-DEC-81	(null)	30
13	7902	FORD	ANALYST	7566	3000	03-DEC-81	(null)	20
14	7934	MILLER	CLERK	7782	1300	23-JAN-82	(null)	10

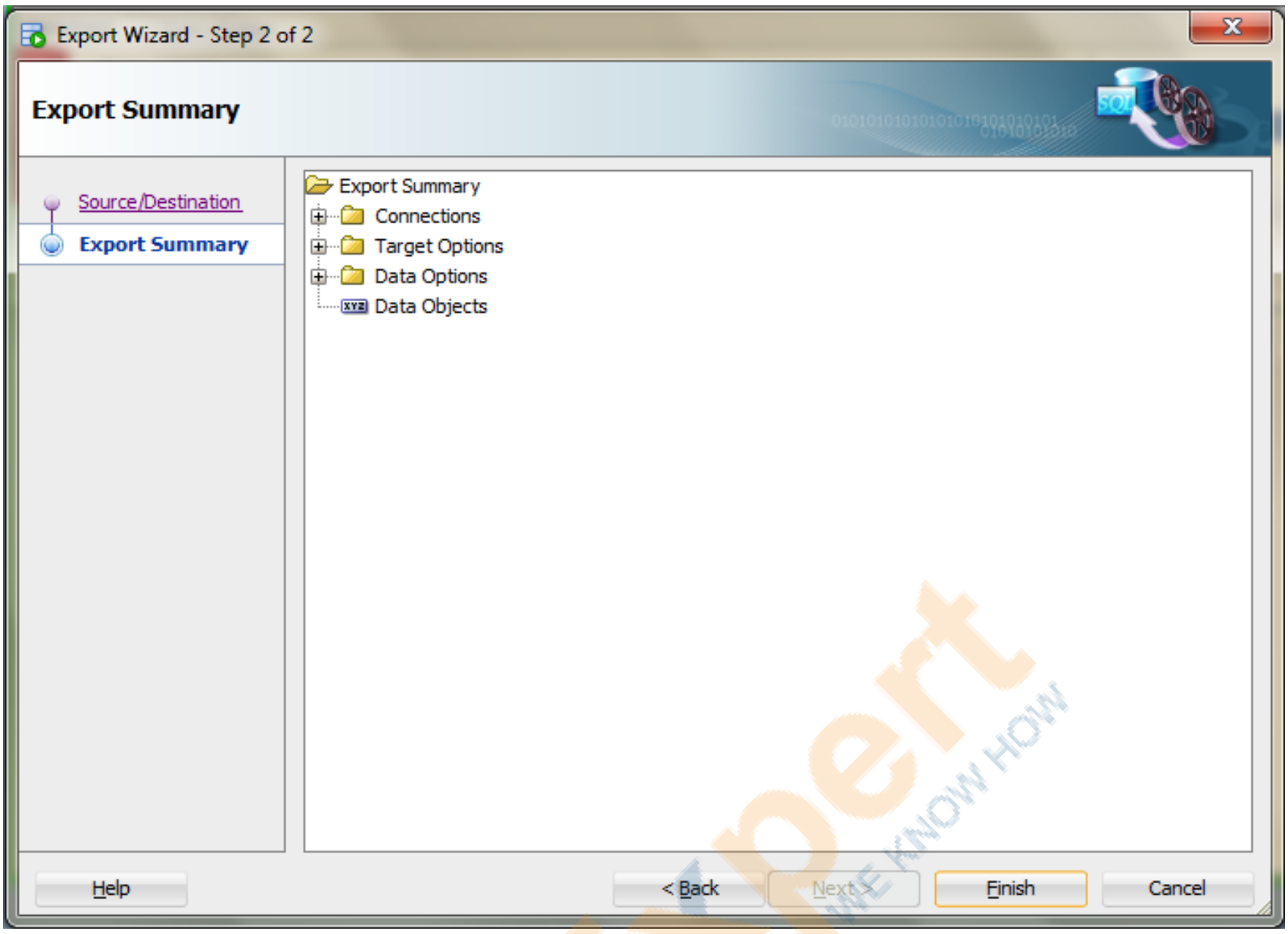
Save Grid as Report...
Single Record View...
Count Rows...
Find/Highlight...
Export...

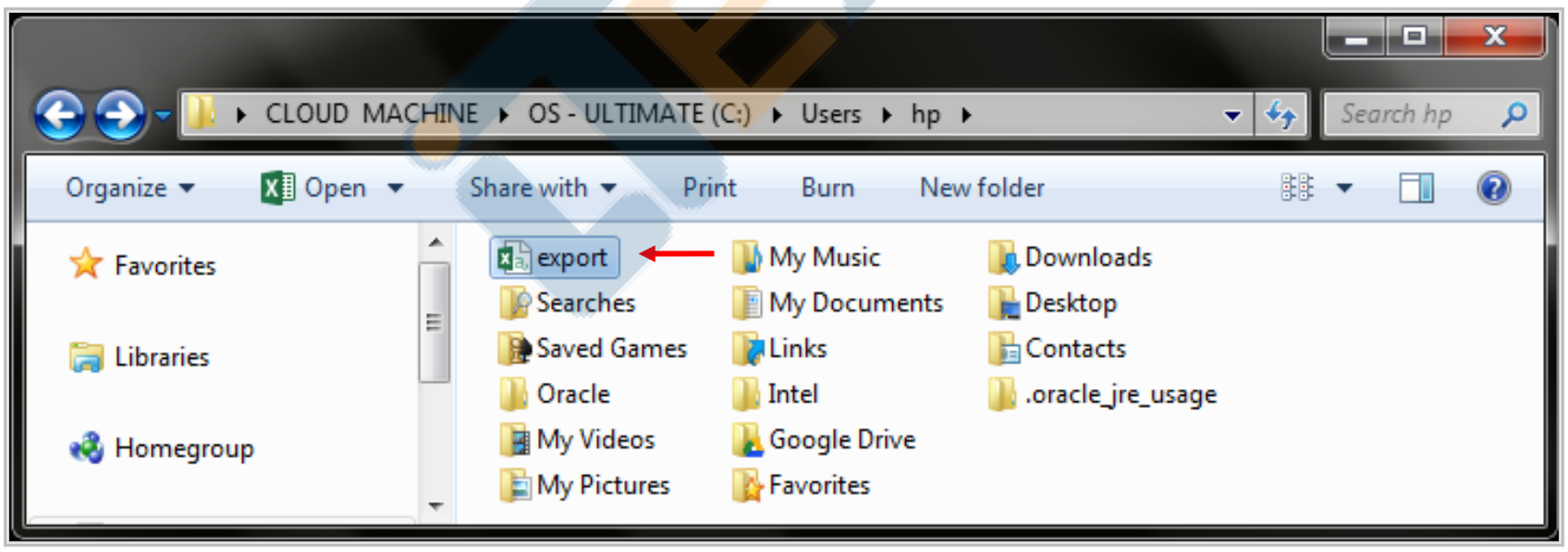
Select which format you want to export from Export Wizard.

Format → csv



SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX





REFERNCE LINKS

How to Export Data using and Object definitions using SQL-Developer.

Importing and Exporting using the Oracle SQL Developer

SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX

SQL DEVELOPER INSTALLATION ON LINUX

This guide talks how to **install SQL-Developer on Oracle Linux 5.5.** This is only for educational purpose from my testing experience and not a complete reference. Please take at your own risk.

FINDING LINUX DISTRIBUTION

```
# cat /etc/*release

Enterprise Linux Enterprise Linux Server release 5.5 (Carthage)
Red Hat Enterprise Linux Server release 5.5 (Tikanga)
```

FIND ARCHITECTURE OF LINUX OS

```
# uname -m
```

If the command output is **x86_64** you need to download Java for **x64** (64-bit), otherwise, if it shows **i686** or similar, you need to download Java for **x86** (32-bit).

DOWNLOAD REQUIRED SOFTWARES

Scroll down and select the **Accept License Agreement** button.
Download Java SE Development Kit 8 *(rpm)* file according to your system architecture.

Download the Java SDK (rpm) for your platform from **Java SE Development Kit 8 - Downloads**
Download sqldeveloper (zip) file from "Other Platforms" from **Oracle SQL Developer Downloads**

Oracle SQL Developer requires at least Java JDK version; latest version is JDK 8.

Java SE Development Kit 8u77

You must accept the Oracle Binary Code License Agreement for Java SE to download this software.

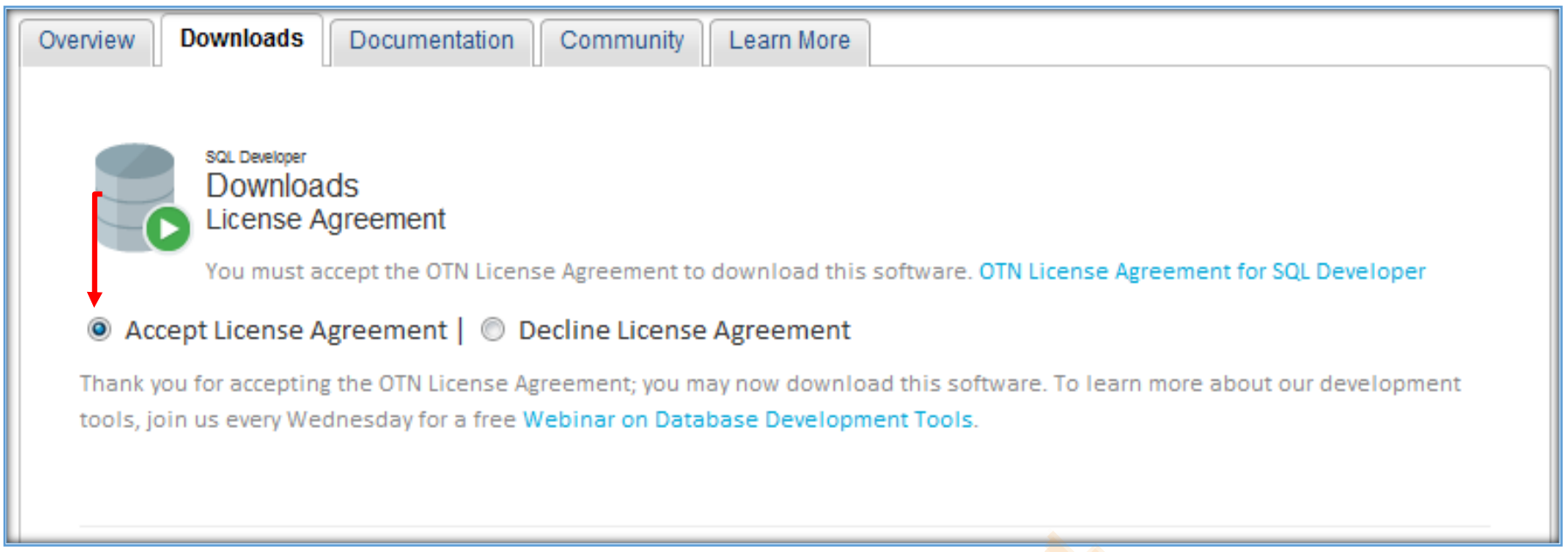
Accept License Agreement Decline License Agreement

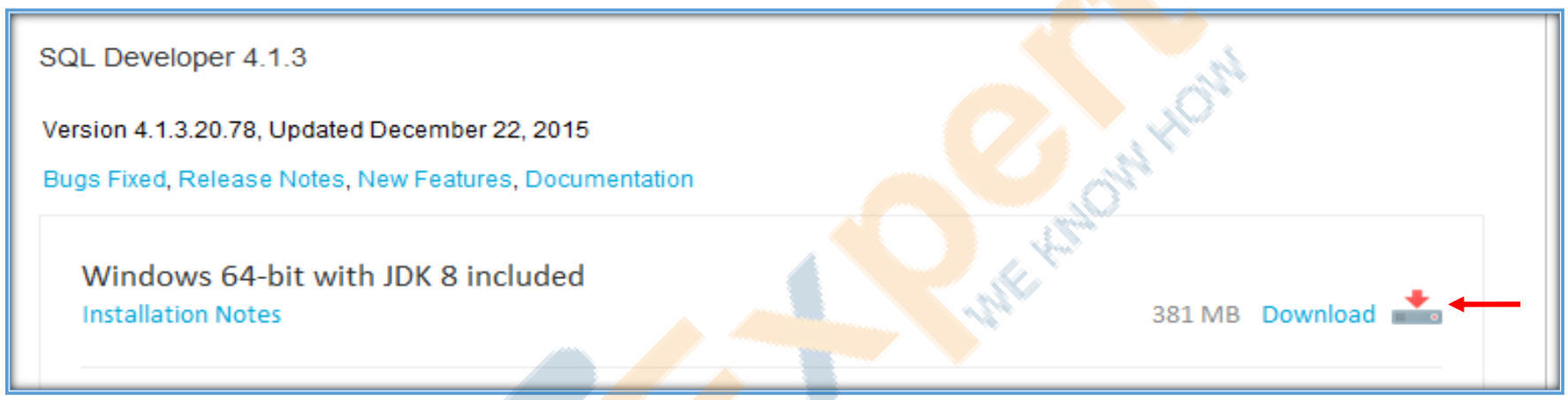
Product / File Description	File Size	Download
Linux ARM 32 Soft Float ABI	77.7 MB	jdk-8u77-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Soft Float ABI	74.68 MB	jdk-8u77-linux-arm64-vfp-hflt.tar.gz
Linux x86	154.74 MB	jdk-8u77-linux-i586.rpm
Linux x86	174.92 MB	jdk-8u77-linux-i586.tar.gz
Linux x64	152.76 MB	jdk-8u77-linux-x64.rpm
Linux x64	172.96 MB	jdk-8u77-linux-x64.tar.gz
Mac OS X	227.27 MB	jdk-8u77-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	139.77 MB	jdk-8u77-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	99.06 MB	jdk-8u77-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	140.01 MB	jdk-8u77-solaris-x64.tar.Z
Solaris x64	96.18 MB	jdk-8u77-solaris-x64.tar.gz
Windows x86	182.01 MB	jdk-8u77-windows-i586.exe
Windows x64	187.31 MB	jdk-8u77-windows-x64.exe

For SQL-Developer you can always just get the windows .zip download, extract it to any *NIX folder you want, and run it from there - no RPM dependencies/requirements will apply.

SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX

Simply download and unzip the zipped file then you can find the executable file (either named "sqldeveloper.exe" on Windows or "sqldeveloper.sh" on Linux), and run it.





INSTALL JDK ON LINUX MACHINE

```
# cd /u03/downloads
# rpm -ivh jdk-8u77*.rpm

Preparing...                ########################################### [100%]
   1:jdk1.8.0_77            ########################################### [100%]
Unpacking JAR files...
        tools.jar...
        plugin.jar...
        javaws.jar...
        deploy.jar...
        rt.jar...
        jsse.jar...
        charsets.jar...
        localedata.jar...
        jfxrt.jar...

# rpm -qa | grep jdk
jdk1.8.0_77-1.8.0_77-fcs
```

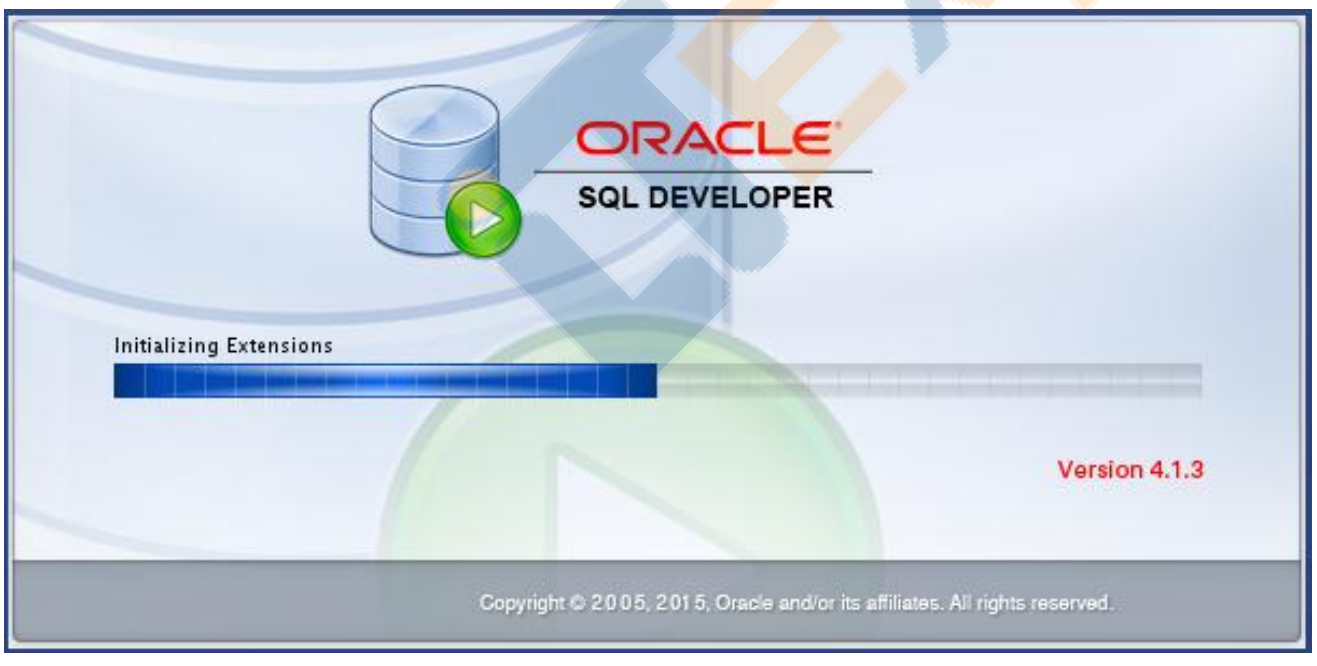
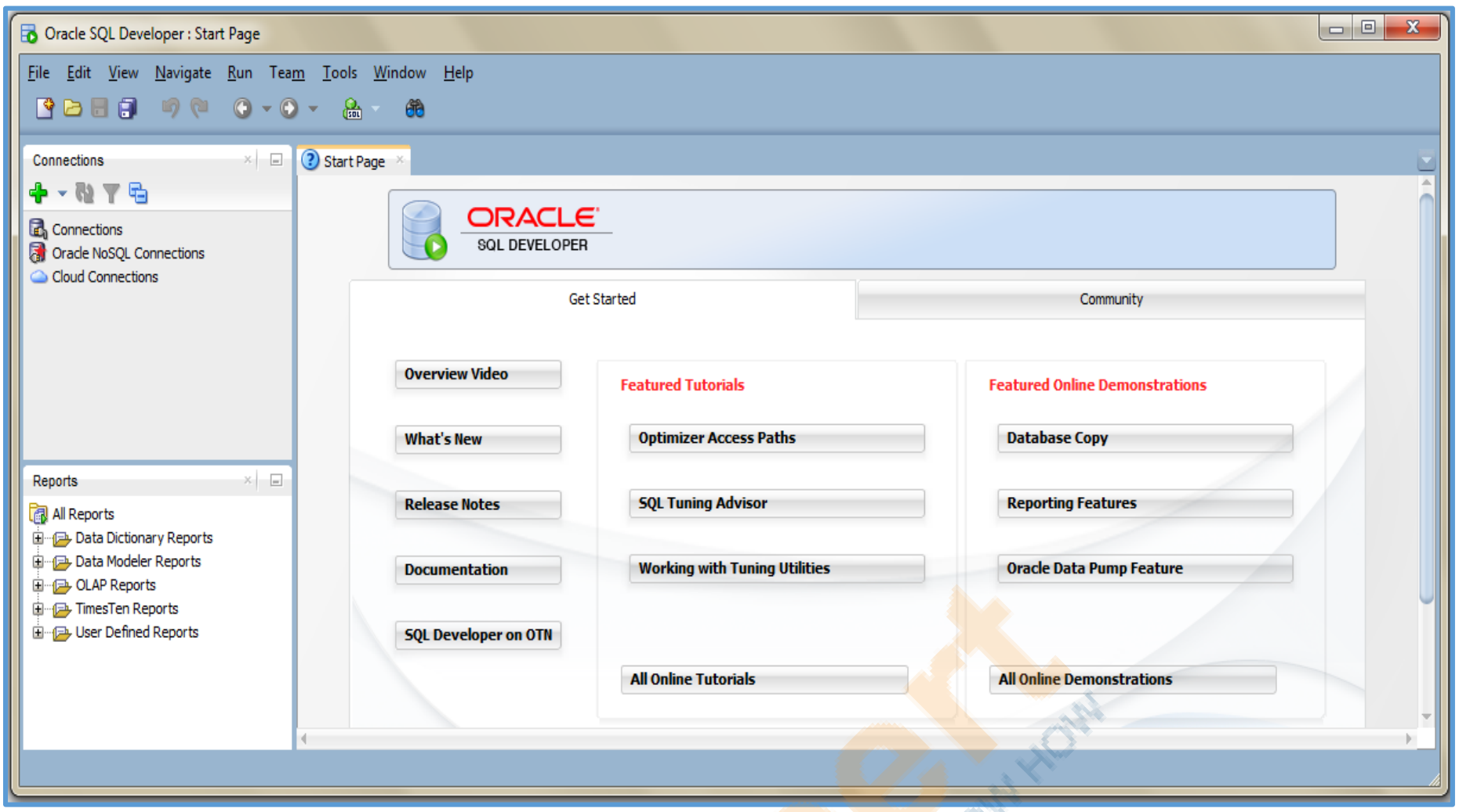
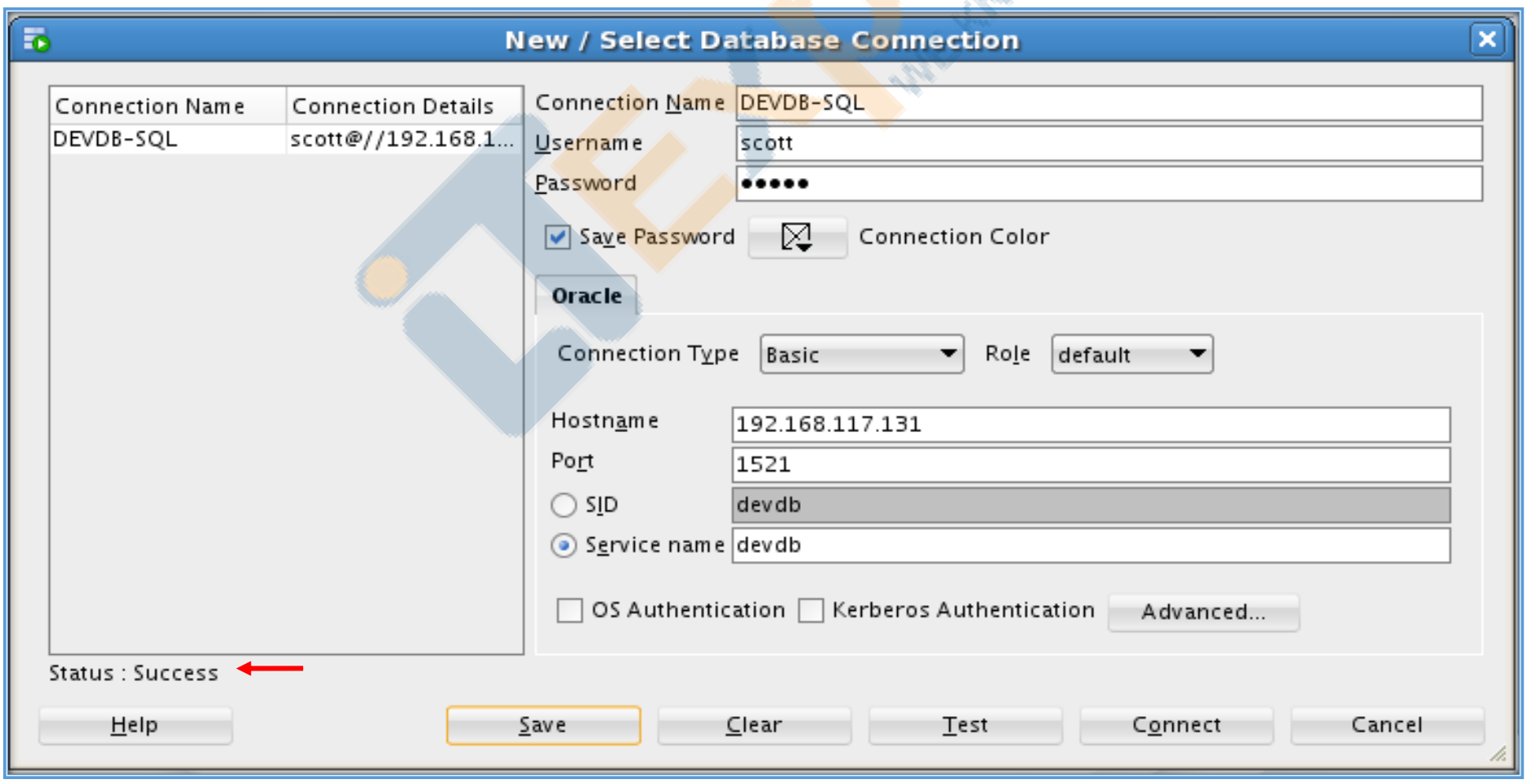
SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX

Now we have Installed Java 8, just unzip the sqldev zip file and start sqldev.

unzip **filename.zip -d ~** means to extract filename.zip into your home folder.

Once we executed ***sqldeveloper.sh,*** it would ask to type the full pathname of a JDK installation (according to the Java version installed)

```
$ cd /u03/downloads
$ unzip -d ~ sqldeveloper-4.1.3.20.78-x64.zip

$ cd /home/oracle/sqldeveloper
$ ls -l sqldeveloper*
-rwxrwxr-x  1 oracle oinstall 83456 Dec 17 17:43 sqldeveloper.exe
-rwxrwxr-x  1 oracle oinstall    71 Dec 17 17:43 sqldeveloper.sh

$ sh sqldeveloper.sh

 Oracle SQL Developer
 Copyright (c) 1997, 2015, Oracle and/or its affiliate. All rights reserved.

Type the full pathname of a JDK installation (or Ctrl-C to quit), the path will be
stored in /home/oracle/.sqldeveloper/4.1.0/product.conf
/usr/java/jdk1.8.0_77
```



SQL DEVELOPER INSTALLATION ON WINDOWS AND LINUX