



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 ADDITIONAL 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).
 - Sign 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

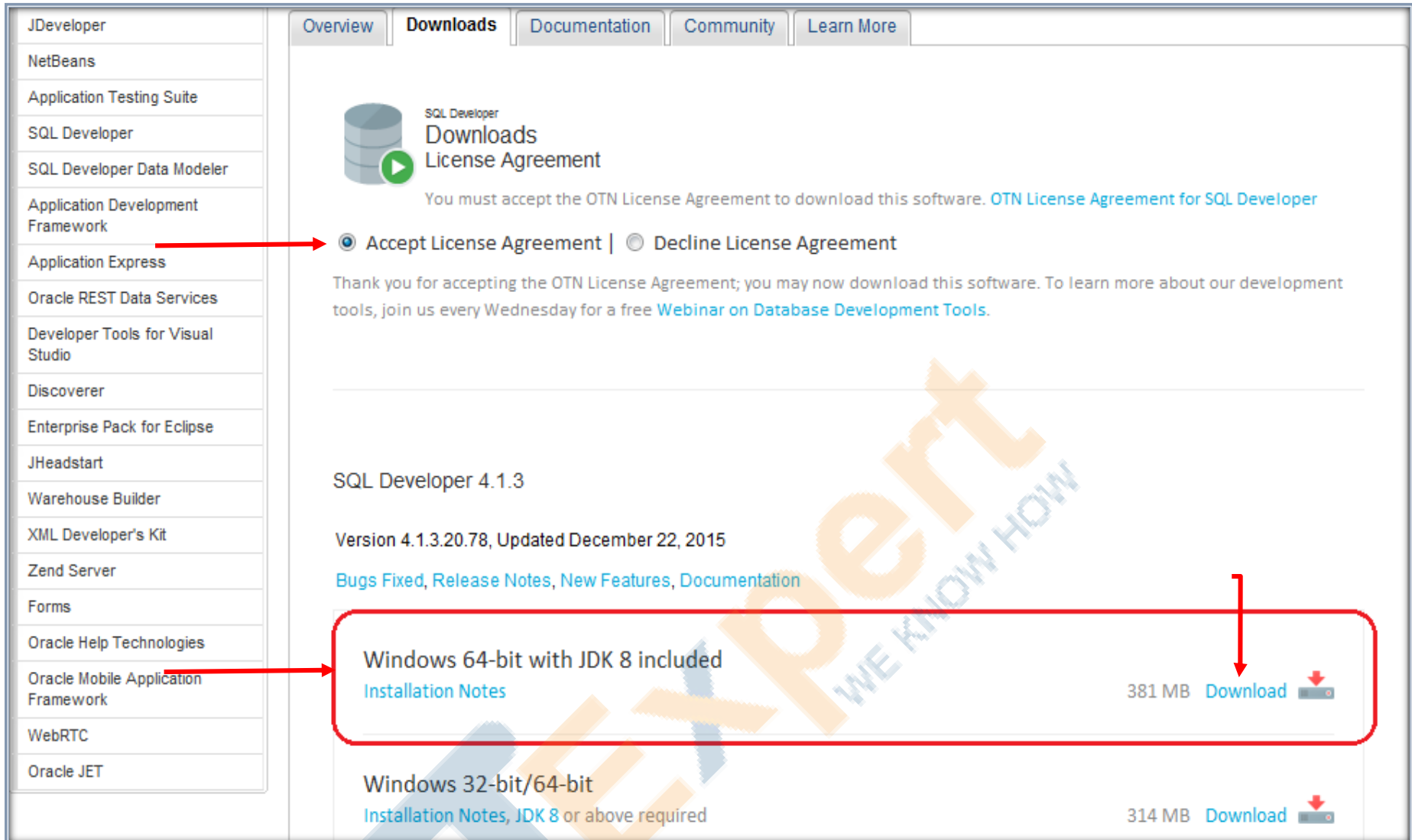
SQL Developer installation itself is simple.

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)



Overview Downloads Documentation Community Learn More

SQL Developer Downloads License Agreement

You must accept the OTN License Agreement to download this software. [OTN License Agreement for SQL Developer](#)

Accept License Agreement | Decline License Agreement

Thank you for accepting the OTN License Agreement; you may now download this software. To learn more about our development tools, join us every Wednesday for a free [Webinar on Database Development Tools](#).

SQL Developer 4.1.3

Version 4.1.3.20.78, Updated December 22, 2015

[Bugs Fixed](#), [Release Notes](#), [New Features](#), [Documentation](#)

Windows 64-bit with JDK 8 included
[Installation Notes](#) 381 MB [Download](#)

Windows 32-bit/64-bit
[Installation Notes](#), [JDK 8](#) or above required 314 MB [Download](#)

Sign In

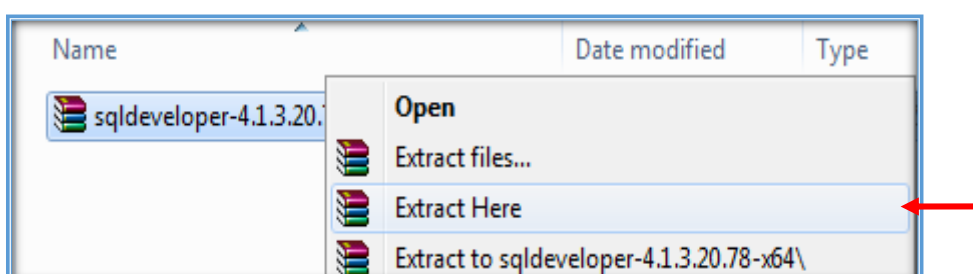
Username

[Forgot Username?](#)

Password

[Forgot Password?](#)

Sign In



Name	Date modified	Type
sqldeveloper-4.1.3.20.		

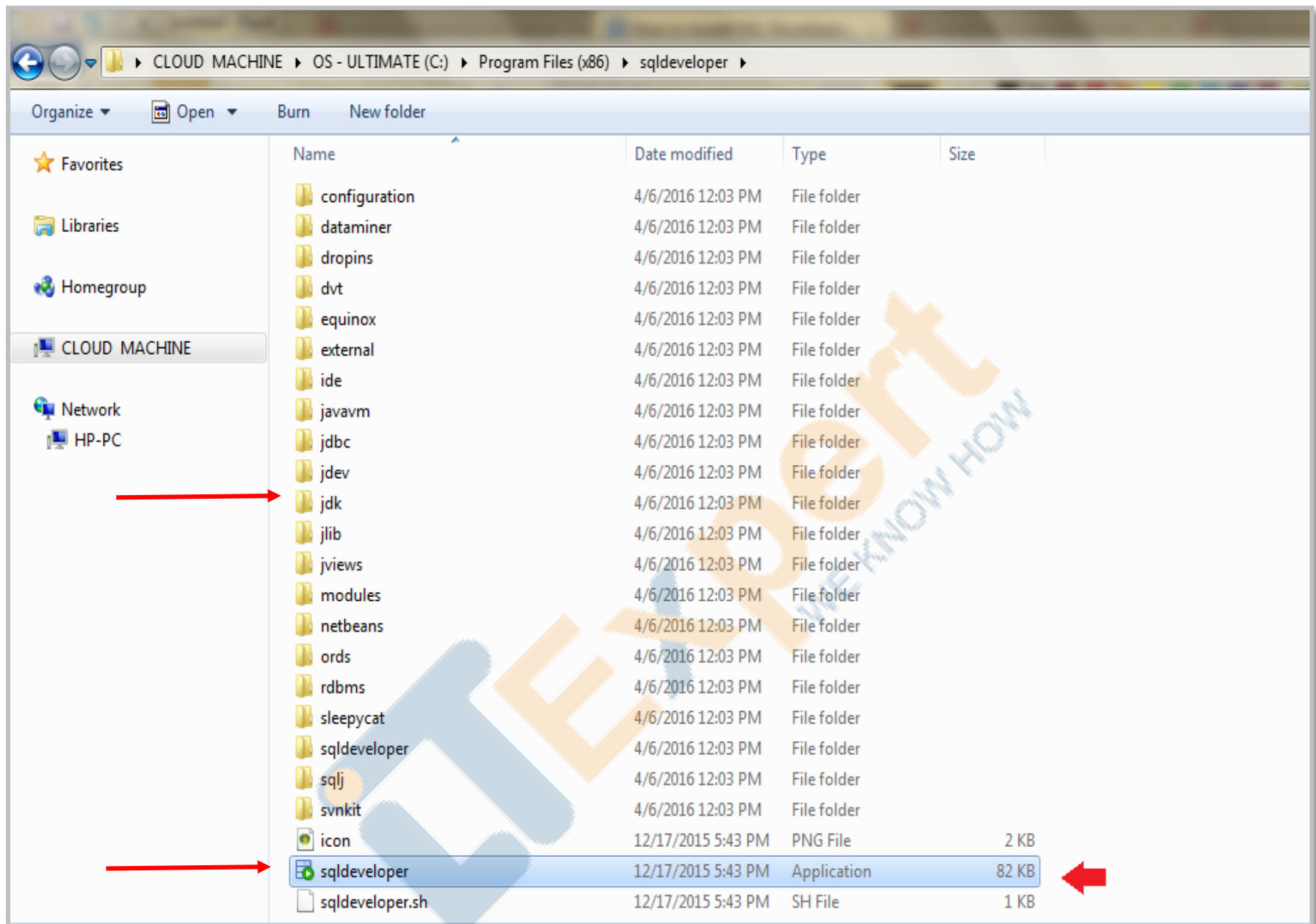
Open

- Extract files...
- Extract Here
- Extract to sqldeveloper-4.1.3.20.78-x64\

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

Name	Date modified	Type	Size
sqldeveloper	4/7/2016 10:37 AM	File folder	
sqldeveloper-4.1.3.20.78-x64	4/6/2016 4:50 AM	WinRAR ZIP archive	392,864 KB



CREATE A SHORTCUT ON DESKTOP

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

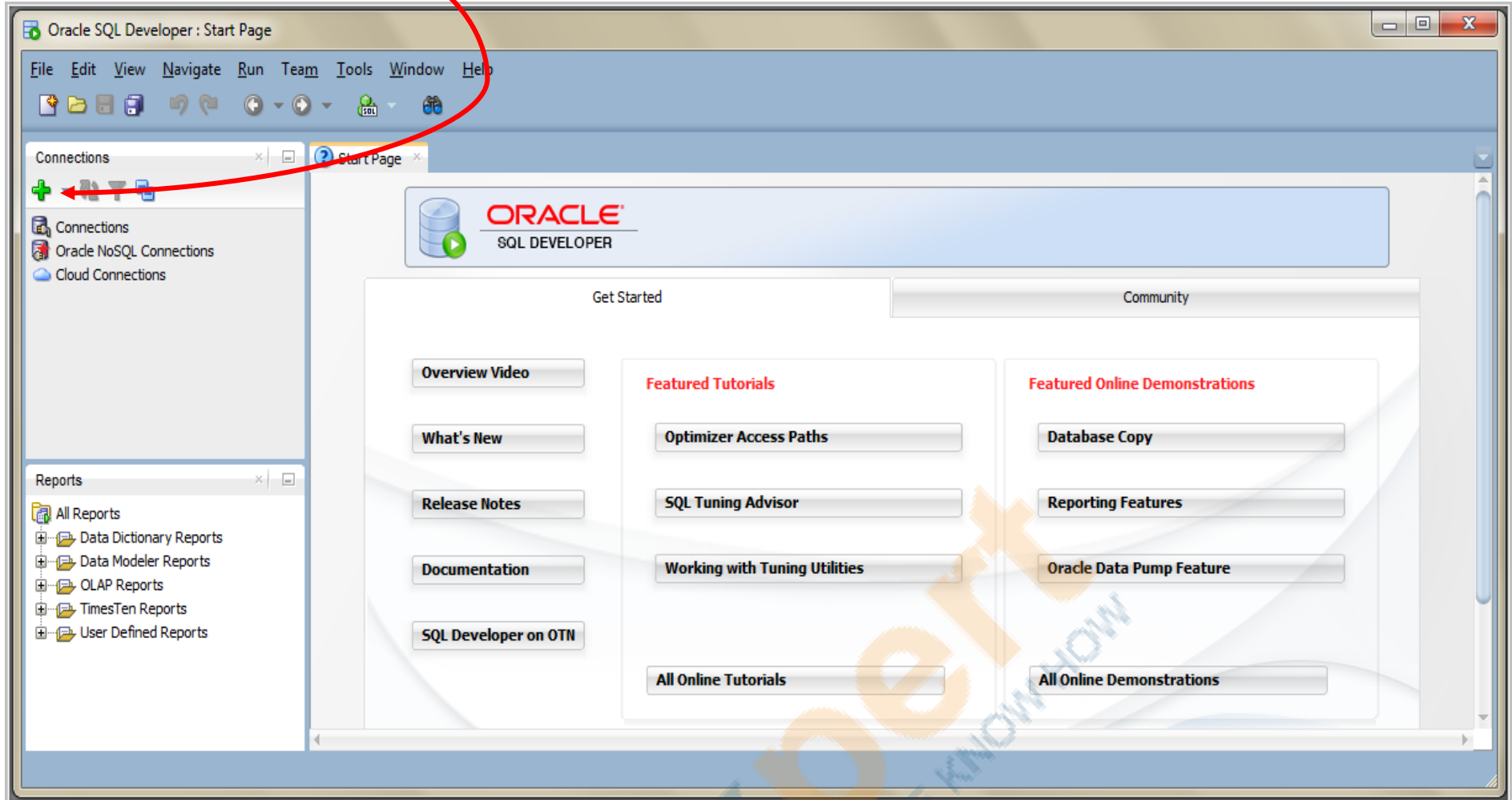
Right click on sqldeveloper → Run as administrator



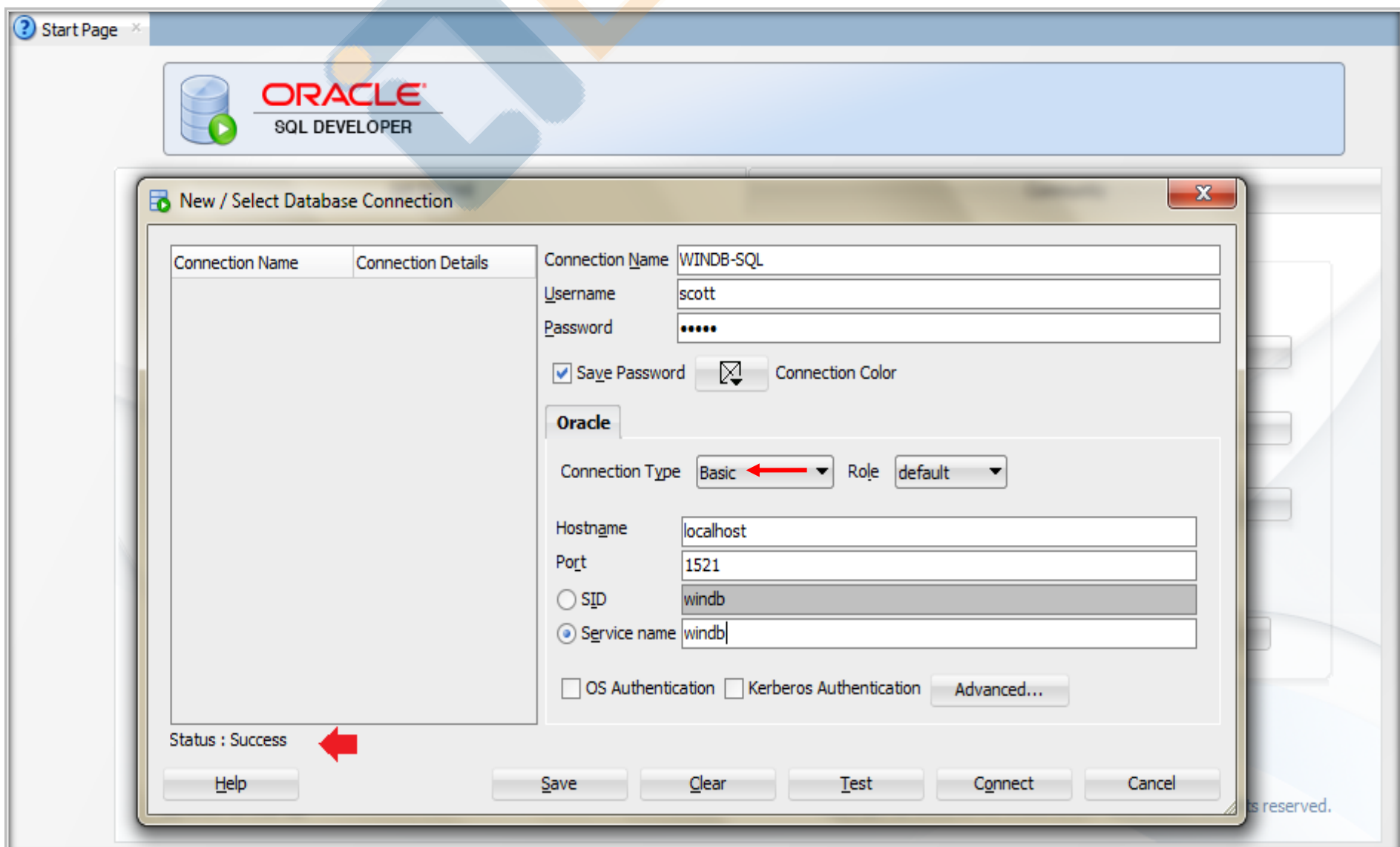


CREATE A DATABASE CONNECTION

Click on Green + symbol



CONNECTING A LOCAL DATABASE





DATABASE (WINDB) CONNECTED

The screenshot shows the SQL Developer interface with the 'Connections' pane on the left displaying 'WINDB-SQL' as the active connection. The 'Tables (Filtered)' pane shows the 'EMP' table selected. The 'Query Builder' pane contains the SQL query: `select * from emp;`. The 'Query Result' pane displays the following data:

EMPNO	ENAME	JOB	MGR	SAL	HIREDATE	COMM	DEPT...
1	7369 SMITH	CLERK	7902	800	17-DEC-80	(null)	20
2	7499 ALLEN	SALESMAN	7698	1600	20-FEB-81	300	30
3	7521 WARD	SALESMAN	7698	1250	22-FEB-81	500	30
4	7566 JONES	MANAGER	7839	2975	02-APR-81	(null)	20
5	7654 MARTIN	SALESMAN	7698	1250	28-SEP-81	1400	30
6	7698 BLAKE	MANAGER	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

ENABLING LINE NUMBERS IN SQL-DEVELOPER

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

The screenshot shows the 'Preferences' dialog box in SQL Developer. The 'Code Editor' section is expanded, and 'Line Gutter' is selected. The 'Code Editor: Line Gutter' settings are as follows:

- Show Line Numbers
- Enable Line Selection by Click-Dragging in Gutter
- Line Gutter Colors:
 - Use Look and Feel Colors
 - Use Editor Colors
 - Use Custom Colors: Background Color: Foreground Color:



The screenshot shows the SQL Developer interface with the following components:

- Connections:** A tree view on the left showing the 'WINDB-SQL' connection and its database objects (Tables, Views, Indexes, etc.).
- Worksheet:** A central pane containing SQL code:


```
1 show user;
2 select * from tab;
3 select * from salgrade;
```
- Script Output / Query Result:** A pane at the bottom showing the execution results for the third query. The output is a table with 5 rows and 3 columns: GRADE, LOSAL, and HISAL.

	GRADE	LOSAL	HISAL
1	1	700	1200
2	2	1201	1400
3	3	1401	2000
4	4	2001	3000
5	5	3001	9999

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.

The screenshot shows the 'New / Select Database Connection' dialog box with the following configuration:

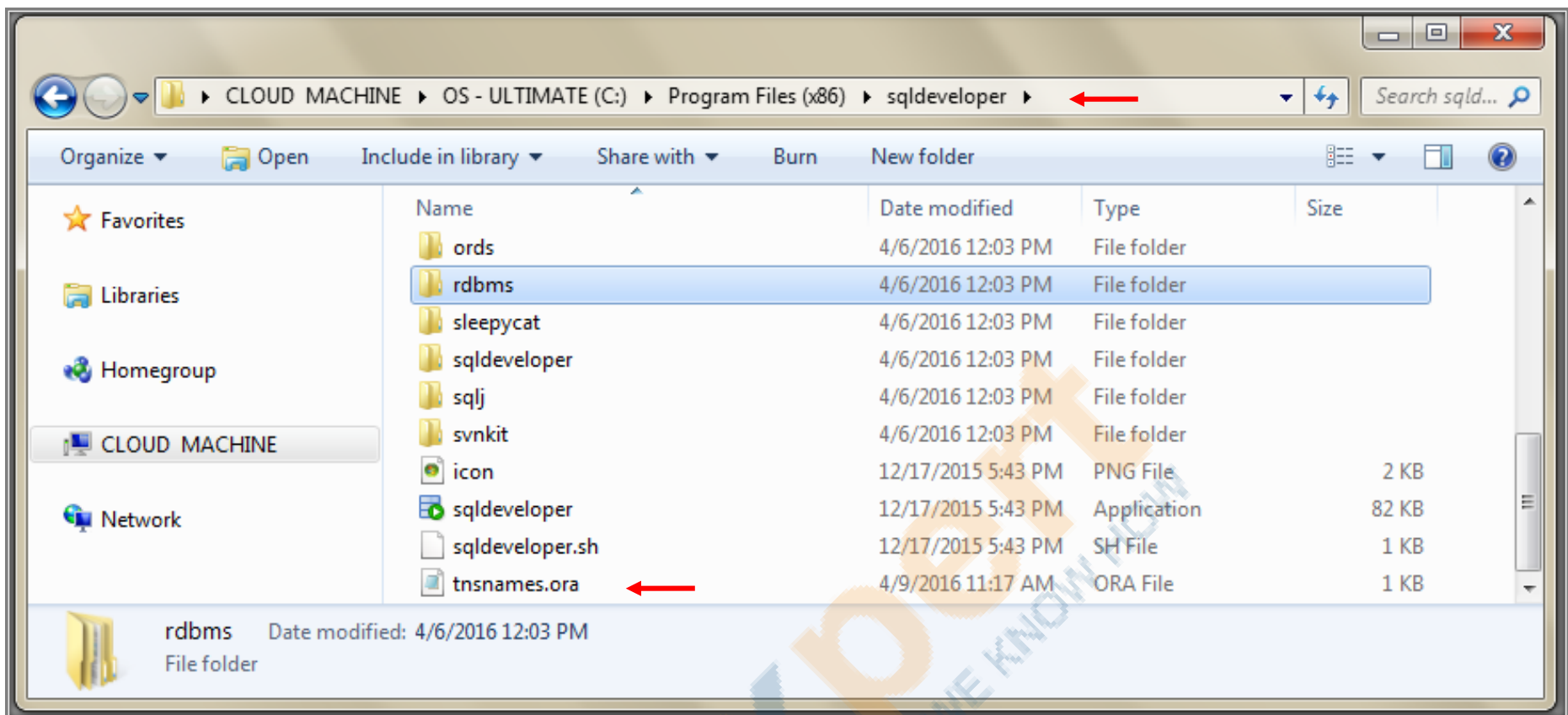
- Connection List:** A table showing existing connections:

Connection Name	Connection Details
DEVDB-SQL	sys@//192.168.117.1...
WINDB-SQL	scott@//localhost:152...
- Connection Name:** DEVDB-SQL
- Username:** sys
- Password:** (masked with dots)
- Save Password
- Oracle Section:**
 - Connection Type:** Basic
 - Role:** SYSDBA
 - Hostname:** 192.168.117.131
 - Port:** 1521
 - SID: devdb
 - Service name: devdb
 - OS Authentication
 - Kerberos Authentication
 - Advanced...
- Status:** Success
- Buttons:** Help, Save, Clear, Test, Connect, Cancel



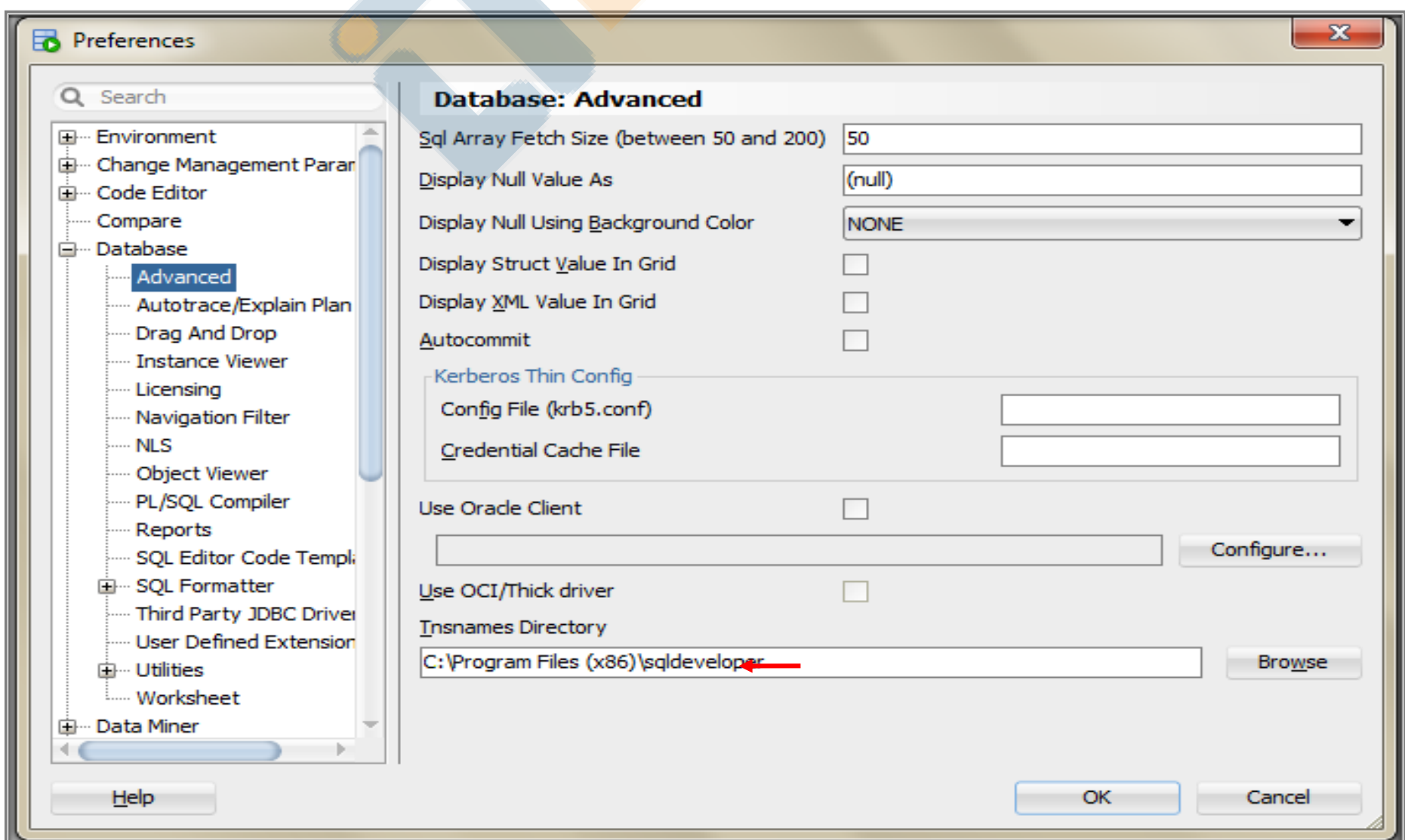
ON SQL DEVELOPER AND TNSNAMES.ORA

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.



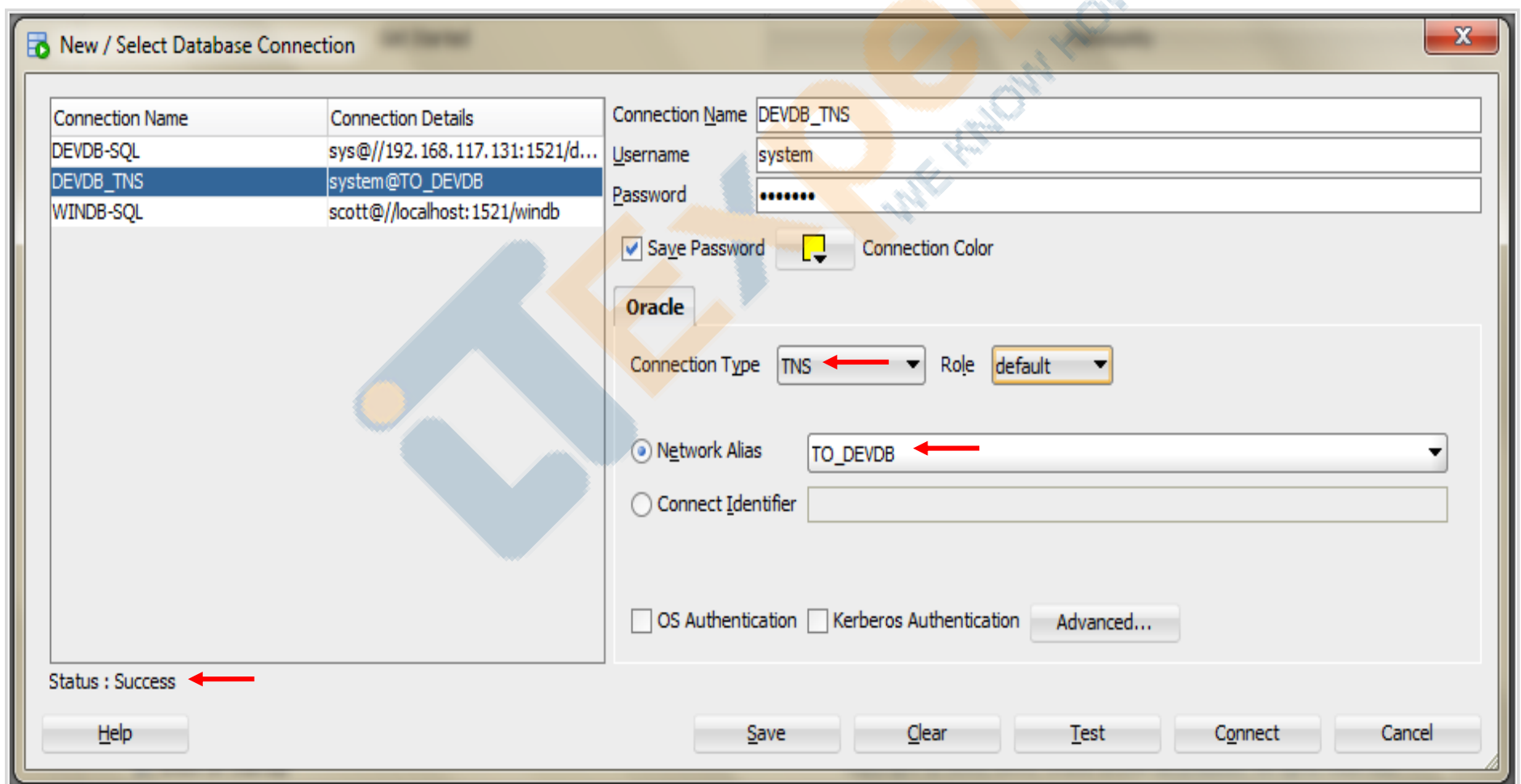


TNSNAMES.ORA FILE

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

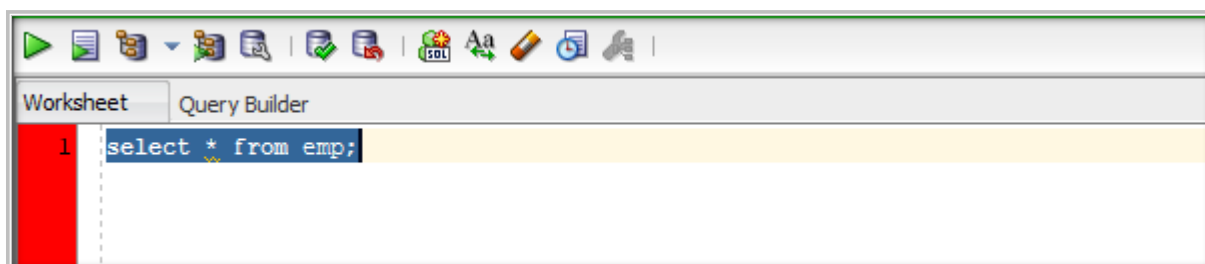
TO_DEVDB =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP) (HOST = 192.168.117.131) (PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = devdb)
    )
  )
```

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

	EMPNO	ENAME	JOB	MGR	SAL	HIREDATE	COMM	DEP...
1	7360	SMITH	CLERK	7902	800	17-DEC-80	(null)	20
2	7698	CLARK	MANAGER	7698	1600	20-FEB-81	300	30
3	7698	ADAMS	CLERK	7698	1250	22-FEB-81	500	30
4	7839	KING	PRESIDENT	(null)	2975	02-APR-81	(null)	20
5	7698	JONES	MANAGER	7698	1250	28-SEP-81	1400	30
6	7839	TURNER	SALESMAN	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

Select which format you want to export from Export Wizard.

Format → csv

Export Wizard - Step 1 of 2

Source/Destination

Source/Destination

Export Summary

Connection: WINDB-SQL

Export Data

Format: csv

Header

Delimiter: ,

Line Terminator: environment default

Left Enclosure: "

Right Enclosure: "

Save As: Single File

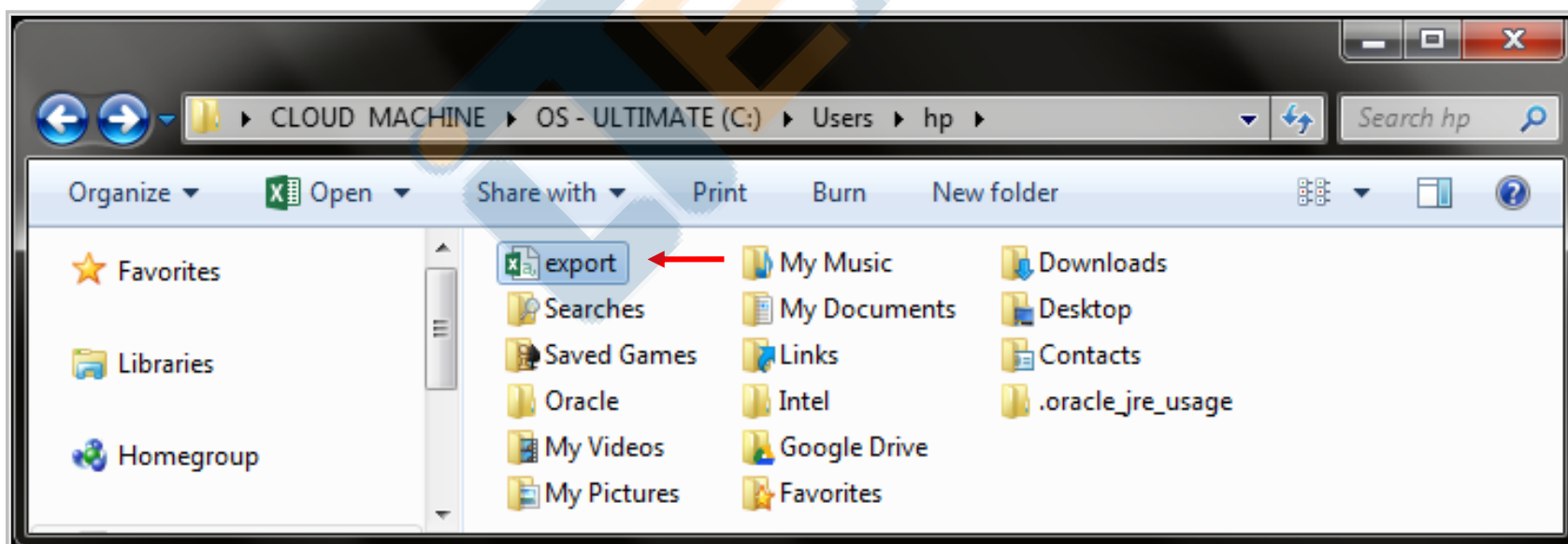
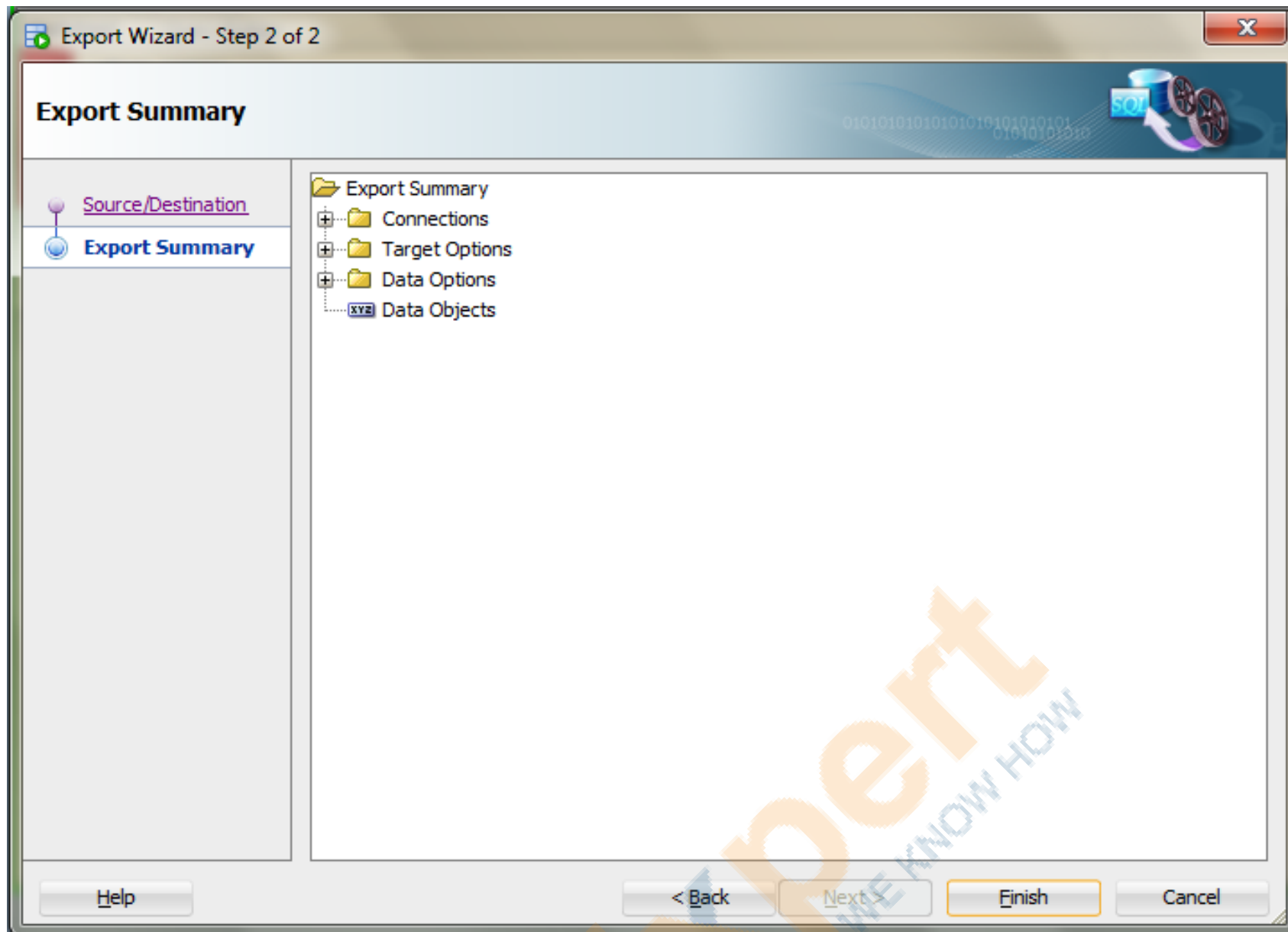
Compressed

Encoding: Cp1252

File: C:\Users\hp\export.csv

Proceed to summary.

Help < Back Next > Finish Cancel



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 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.



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.

The screenshot shows the 'Downloads' tab of the SQL Developer website. It features a 'SQL Developer Downloads License Agreement' section with a play button icon. Below the icon, there is a message: 'You must accept the OTN License Agreement to download this software. [OTN License Agreement for SQL Developer](#)'. There are two radio buttons: 'Accept License Agreement' (which is selected) and 'Decline License Agreement'. Below this, a thank-you message states: 'Thank you for accepting the OTN License Agreement; you may now download this software. To learn more about our development tools, join us every Wednesday for a free [Webinar on Database Development Tools](#).'

The screenshot shows the 'SQL Developer 4.1.3' download page. It lists the version as 'Version 4.1.3.20.78, Updated December 22, 2015' and provides links for 'Bugs Fixed, Release Notes, New Features, Documentation'. Under the heading 'Windows 64-bit with JDK 8 included', there is a link for 'Installation Notes'. On the right side, it shows '381 MB' and a 'Download' button with a red arrow pointing to 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
```




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

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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`

