

Installation of Oracle 11g R2 XE

First you have to install the database itself. I am using Oracle 11g R2 XE (Express Edition) for the examples and exercises. You could also use other Oracle DBs like 10g, 11g, 12c. The Express Edition is for training purpose and for that it is free. It's also limited, i.e. it only uses one CPU, 1GB of RAM and max. 10GB for data.

1. Download Oracle 11g R2 XE for your operating system (Linux, Windows 32bit or 64bit):
<http://www.oracle.com/technetwork/database/database-technologies/express-edition/downloads/index.html>

To download the package you have to create an account for the Oracle technet. It's free but needed for the download.

2. Unzip downloaded file
3. Run /DISK1/setup.exe
4. The installation is pre configured. A database is automatically created and called XE. But you have to set a password for the admin user (which is always called SYS in ORACLE). Please write this password down as you need it for administration purpose after the installation. This installation guide is based on the password "hamburg" (without the quotation marks) but of course you can chose a different password.

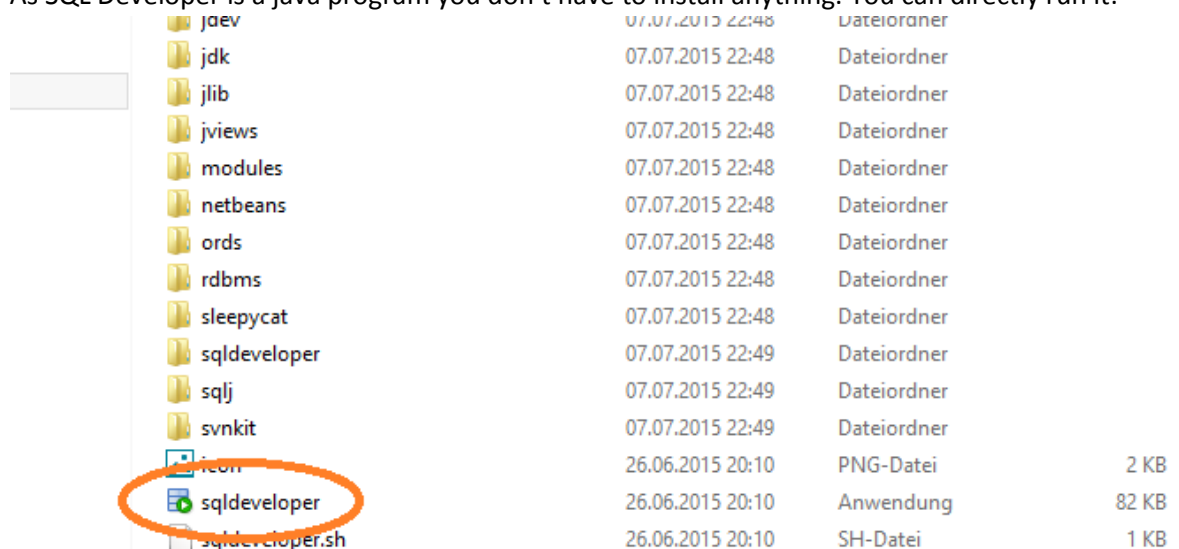
Install and configure SQL Developer

Now the Oracle database is installed. You now have to install some kind of database client. I recommend and use by myself Oracle SQL Developer. It's a SQL tool by Oracle and you can use it for free.

1. Download SQL Developer for your operating system:
<http://www.oracle.com/technetwork/developer-tools/sql-developer/downloads/index.html>

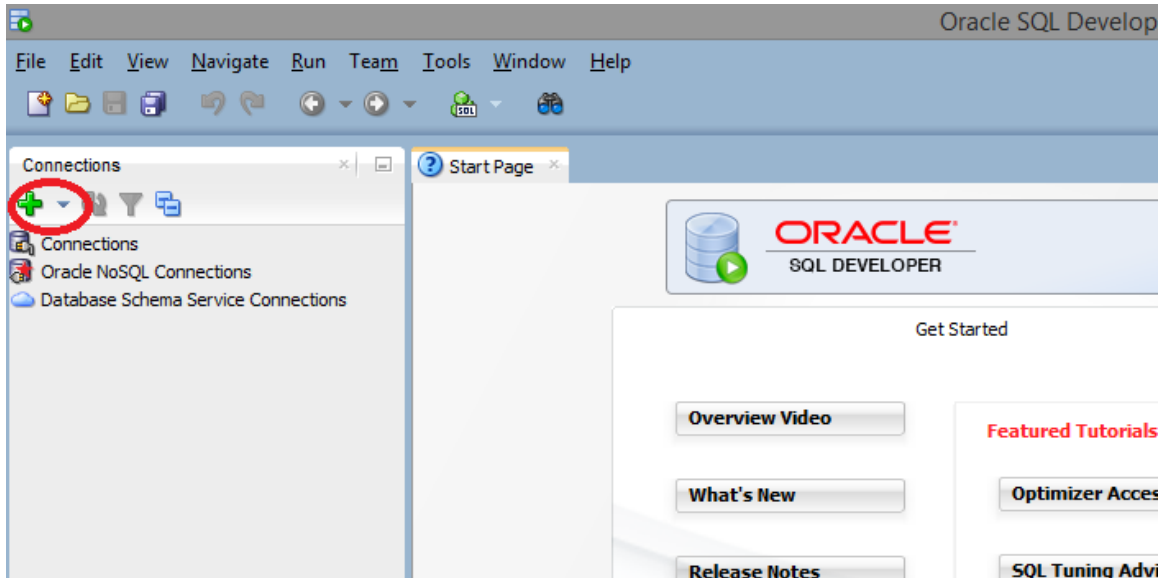
You can reuse the Oracle account you've already created when installing the database itself.

2. Unzip the file.
3. As SQL Developer is a java program you don't have to install anything. You can directly run it:

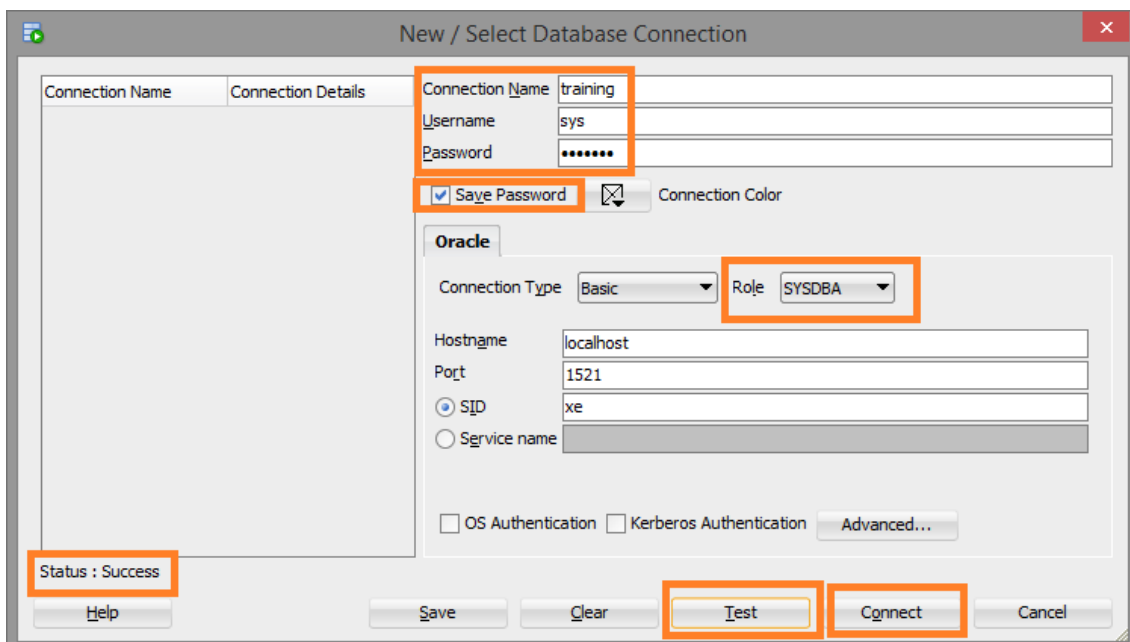


jaev	07.07.2015 22:48	Dateiordner	
jdk	07.07.2015 22:48	Dateiordner	
jlib	07.07.2015 22:48	Dateiordner	
jviews	07.07.2015 22:48	Dateiordner	
modules	07.07.2015 22:48	Dateiordner	
netbeans	07.07.2015 22:48	Dateiordner	
ords	07.07.2015 22:48	Dateiordner	
rdbms	07.07.2015 22:48	Dateiordner	
sleepycat	07.07.2015 22:48	Dateiordner	
sqldeveloper	07.07.2015 22:49	Dateiordner	
sqlj	07.07.2015 22:49	Dateiordner	
svnkit	07.07.2015 22:49	Dateiordner	
icon	26.06.2015 20:10	PNG-Datei	2 KB
sqldeveloper	26.06.2015 20:10	Anwendung	82 KB
sqldeveloper.sh	26.06.2015 20:10	SH-Datei	1 KB

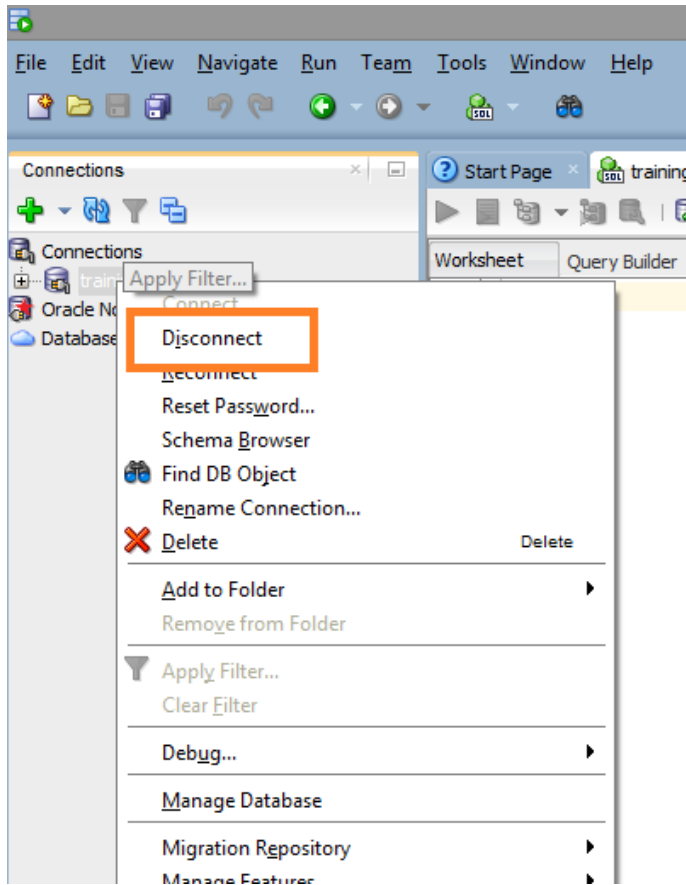
4. When you run the program the first time you are asked whether to import data from previous versions. You can just click yes in this step.
5. Now you have to add a new connection to the database. For that you just click on the green plus symbol within the connections section. A window is opened in which you can set up the connection.



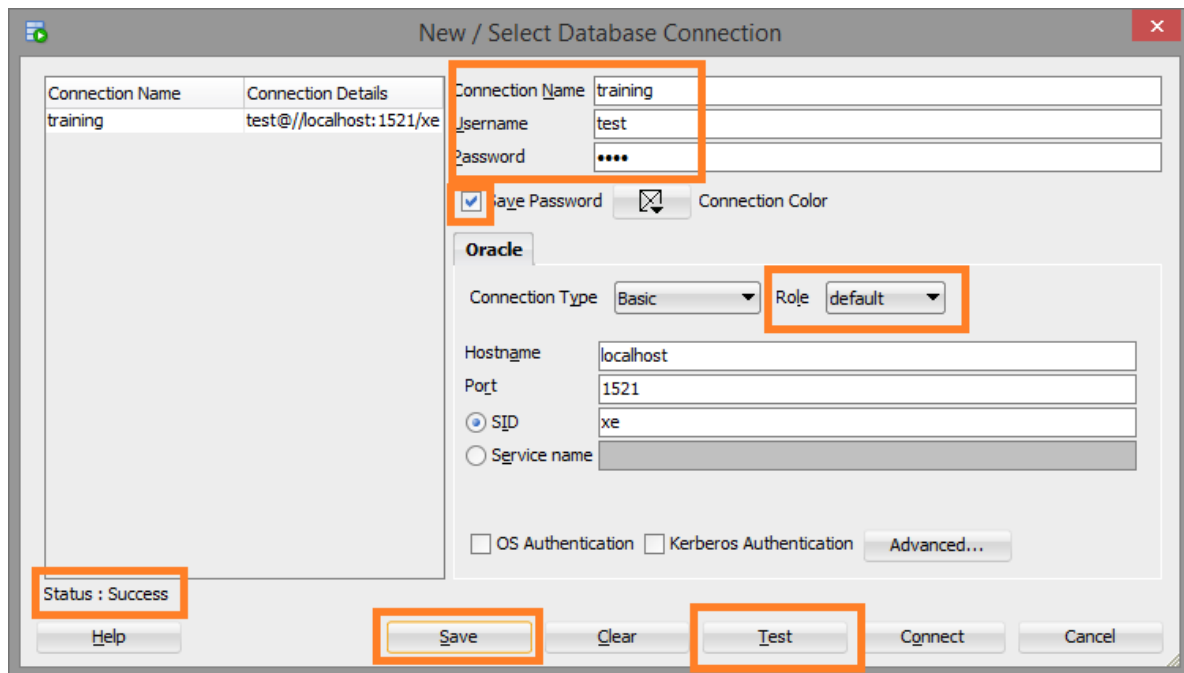
6. Type in the connection information.
 - a. Chose a connection name. I've chosen training.
 - b. User: SYS and password: hamburg (as you've selected it during the database installation)
 - c. Check the „Save password“ option
 - d. Set role to SYSDBA
 - e. Test the connection. The state has to switch to "Success". Otherwise check the section Troubleshooting.
 - f. Save the connection and connect to it.



7. Now download the file „Installation scripts.zip“ from the book’s resource page and unzip it:
http://gaussling.com/informationen/book_ressources_en/
8. Navigate to the folder Oracle.
9. Open and run the SQL script „Configure users.sql“ in the connection within SQL Developer.
This creates some Oracle users and assign rights to them.
10. After that right click on the connection “training” and press disconnect.



11. Right click again on the connection and then click on properties. Now change the connection data to the training user. (this user was created with the help of the SQL script in the previous step):
 - a. User: test and password: test
 - b. Set role to Default
 - c. Click on Test button. The state should change to Success.
 - d. Save and connect.



12. Now you have a database with no tables. If you want to start with the Chapter 8 – Create tables and database structures, you don't have to do anything else. If you want to continue with chapter 3 you should import the training data.

Import training database (not needed for chapter 8)

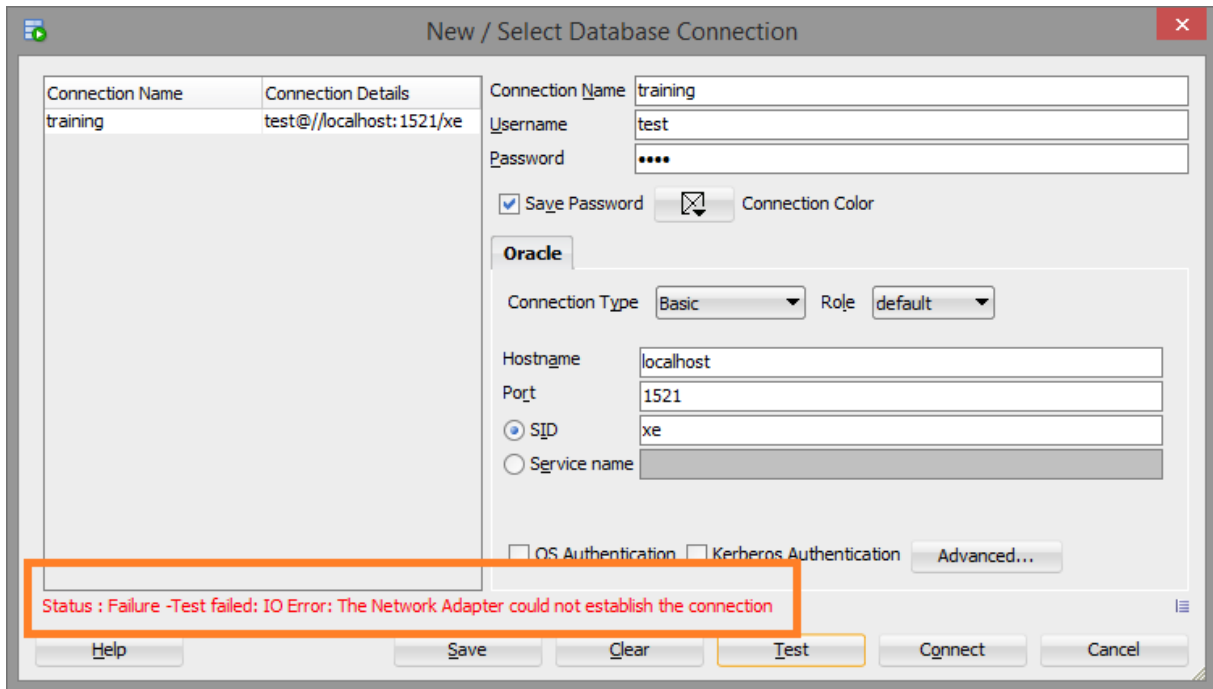
If you want to directly start with chapter 8 you don't need to proceed with the following steps as the tables will be created in this chapter.

If you want to start with chapter 3 or if you have already worked with chapter 9 then you should do the following:

1. If tables already exist, then first delete all your tables. (You've learned that in chapter 9 😊
DROP TABLE ...)
2. Open and run the SQL script „Install training database with data.sql“

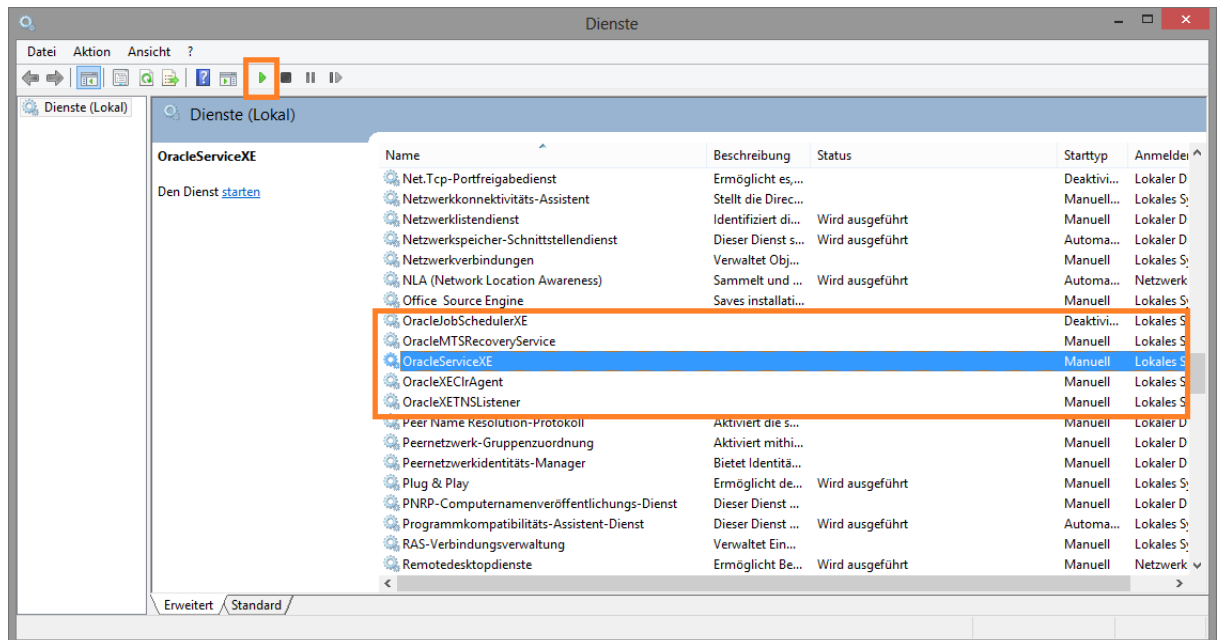
Troubleshooting

Sometimes it's not possible to connect to the database. The error message looks like this:



This error occurs when the services OracleServiceXE and/or OracleXETNSListener haven't been started automatically. You have to go to the system control in order to manually start both services.

1. Open Windows control panel
2. Navigate to System -> Administrative Tools -> Services
3. Scroll down to the Oracle services.



4. You have to start the services OracleServiceXE and OracleXETNSListener. Just mark the service and then click the green "play" button. The OracleServiceXE takes some time to start, the other service starts pretty fast. If everything works fine the state changes to "running".
5. You can close the windows of the control panel.
6. Restart SQLDeveloper. After that you can proceed with the setup of the training environment.