Using SQL Developer from Home

This document walks you through the process of installing SQL Developer in section one. We then move on to setting up a connection to the COSC265 Oracle server.
Note that this document assumes that you have administrative privileges for your computer.

Install SQL Developer

You can get SQL Developer here:
https://www.oracle.com/tools/downloads/sqldev-v192-downloads.html
Select the correct version for your operating system.
Note: you will need to create an Oracle account before it will let you download the appropriate file.

You should then extract the .zip, and run the appropriate executable. For windows *sqldeveloper.exe* or *sqldeveloper/sqldeveloper/bin/sqldeveloper* for linux.

Adding Remote Connection

Start by opening SQL Developer. There are then two main steps to setting up remote access to the CSSE oracle server:

Add a SSH Connection

Note that the SSH connections are not visible in the default view of SQL developer. Add by selecting View -> SSH
Now do the following:

1. Right click on `SSH Hosts` in the SSH Hosts section and select `New SSH Host`
2. Populate the fields with the following values to create an SSH Host:
    a. `Name`: Give your connection a name E.g. `CSSE`
    b. `Host`: **`linux.cosc.canterbury.ac.nz`**
    c. `Port`: **`22`**
    d. `Username`: Your UC username, found on your canterbury card
    e. Select `Add a Local Port Forward`
    f. `Name`: Specify a name for the port forward E.g. `CSORA201`
    g. `Host`: **`csse-oracle2020.canterbury.ac.nz`**
    h. `Port`: **`1521`**
    i. Select `Use specific local port` and set to **`1521`**
    j. Click `OK`

Please refer to Figure 1 for an example of a populated form.

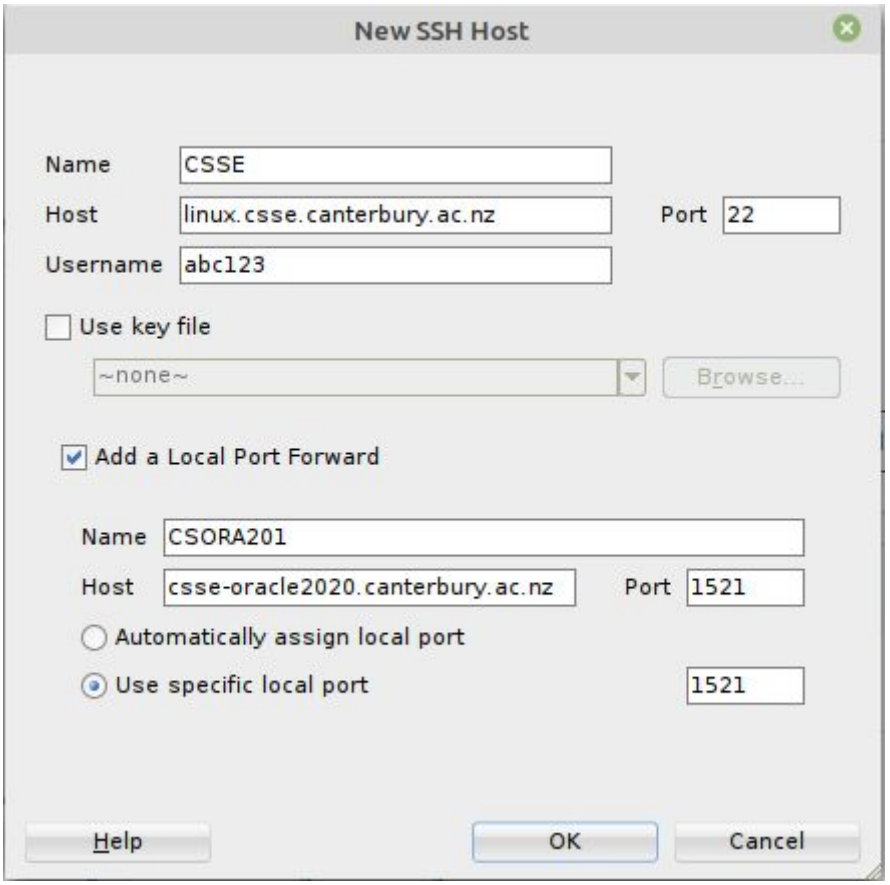

Figure 1: Example configuration of SSH Host

3. Test the local port forwarding profile by right clicking on the profile you created with the name specified in step `f` above and selecting `Connect`. You will find it in the SSH Hosts section. If you can successfully connect then you should be able to create a database connection (following section).

Add a Database Connection

You can create a new database connection by clicking on the green plus icon in the in the Connections section.

Now populate the fields with the following values to create the connection:

1. `Name`: Give the database connection a name E.g. CSORA201
2. `Database Type`: **`Oracle`**
3. In the `User Info` tab:
    a. `Authentication Type`: **`Default`**
    b. `Username`: Your username to connect to the Oracle server
    c. `Role`: **`default`**
    d. `Password`: Your password to connect to the Oracle server
    This is probably different to your UC user password
4. `Connection Type`: **`Basic`**
5. In the `Details` tab:

a. `Hostname`: **`localhost`**
b. `Port`: **`1521`**
c. `Service name`: **`csora201.canterbury.ac.nz`**

6. Test the connection and save

Please refer to Figure 2 for an example of a populated form.

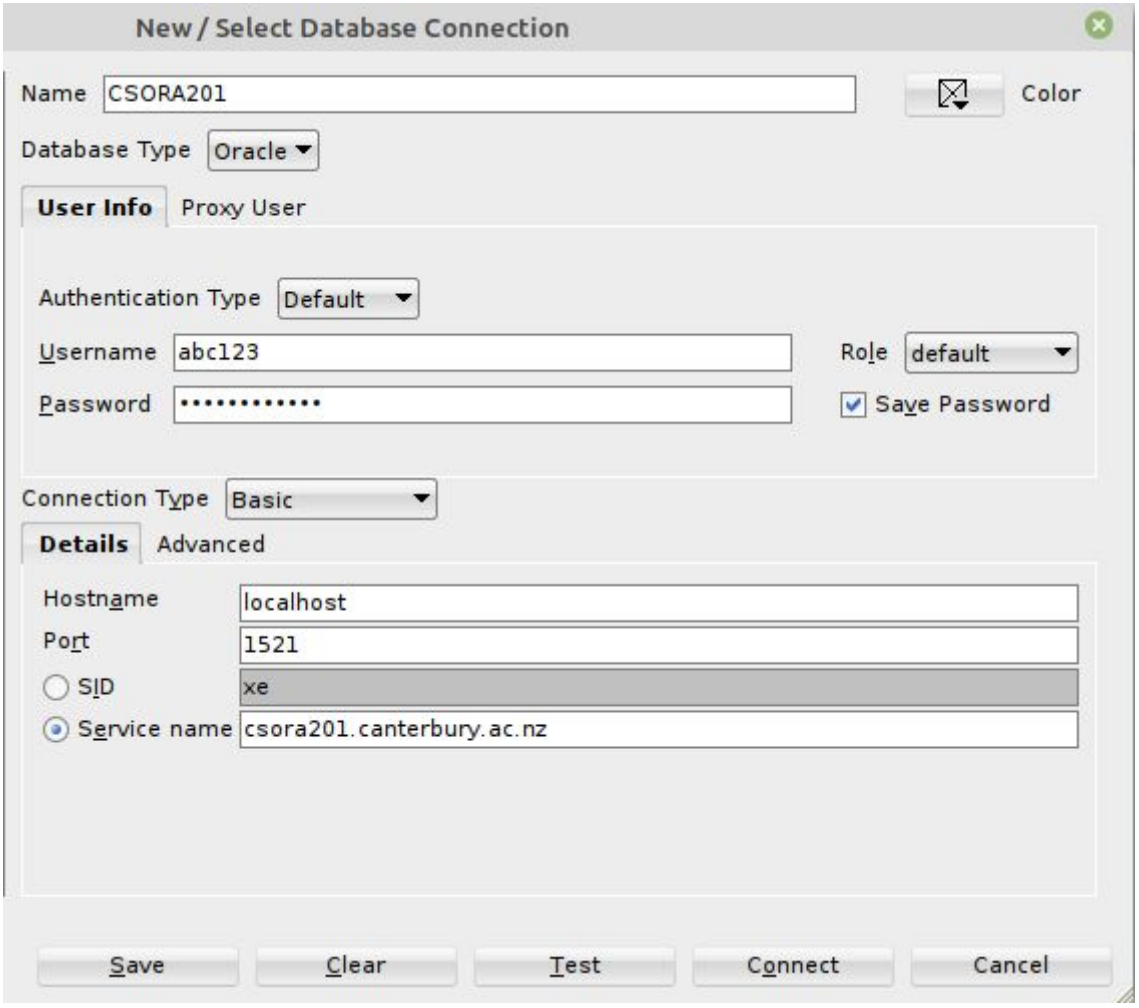

Figure 2: Example New Database Connection