# Oracle at CDM

# 2012-10-4

## Step 1: Downloading/Installing Oracle SQL Developer

Oracle SQL Developer is a free graphical tool designed to improve your productivity and simplify the development of everyday database tasks. It simplifies the following tasks:

- Browsing and managing database objects
- Executing SQL statements and scripts
- Editing and debugging PL/SQL statements
- ……

### 1) Downloading Oracle SQL Developer

You may download Oracle SQL Developer (free) software from Oracle via the link:
http://www.oracle.com/technology/products/database/sql_developer/index.html

### 2) Installing Oracle SQL Developer

Oracle SQL Developer does not require an installer. To install Oracle SQL Developer, you will need an unzip tool. To install and start Oracle SQL Developer, follow these steps:

Unzip sqldeveloper.zip into a directory (folder) of your choice (for example: C:\)
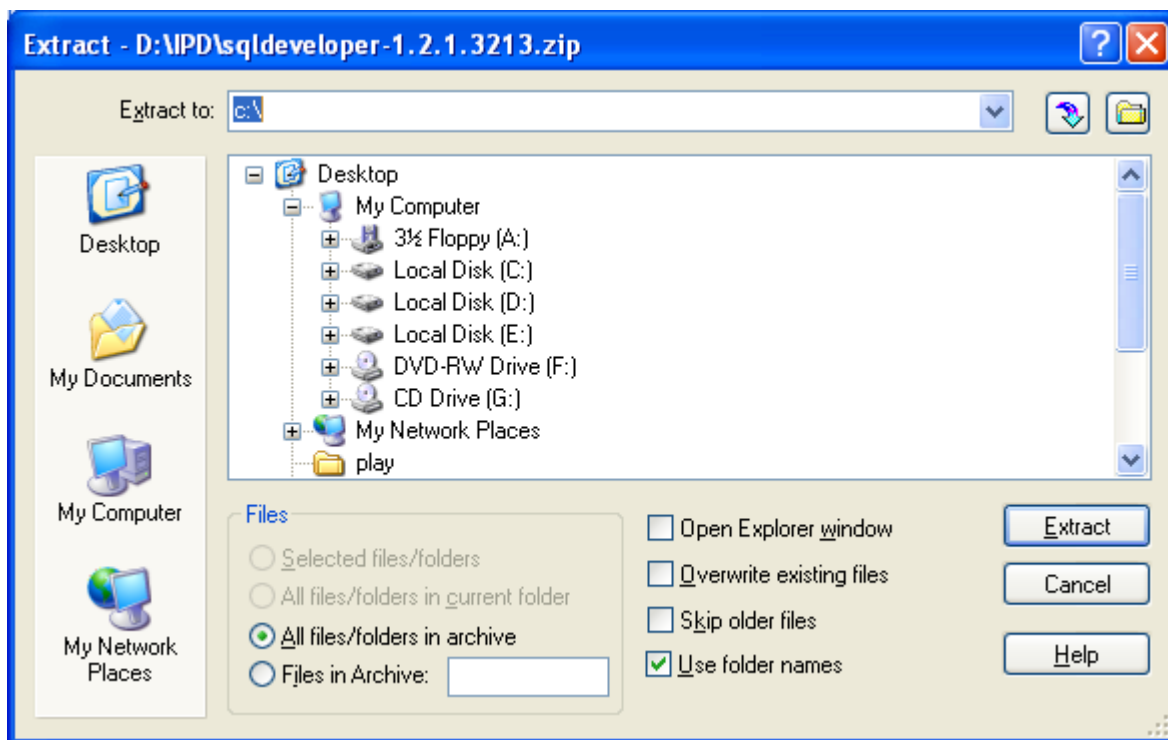
Unzipping sqldeveloper.zip causes a directory named sqldeveloper to be created under the C directory. It also causes many files and folders to be placed in and under that directory.
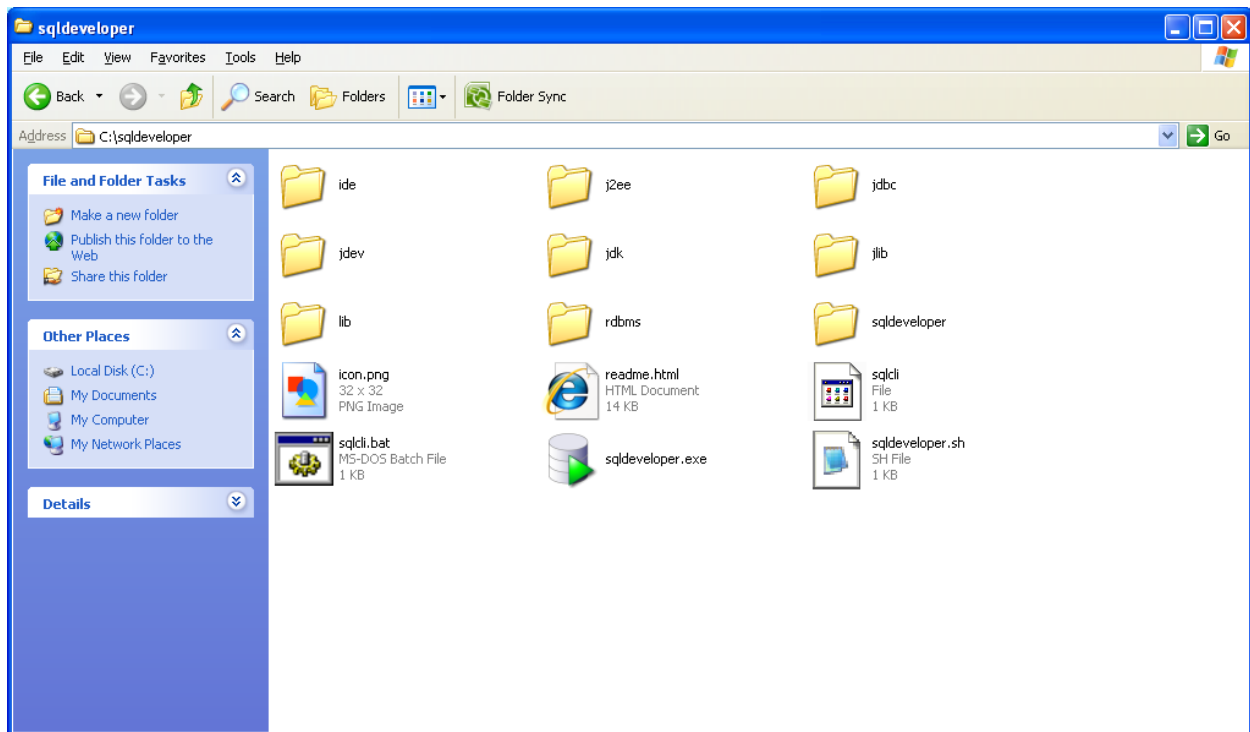


To start Oracle SQL Developer, go to the c:\sqldeveloper directory, and then double-click sqldeveloper.exe.

## Step 2: Accessing Oracle

### 1) Creating a Connection

A connection is an Oracle SQL Developer object that specifies the necessary information for connecting to a specific database as a specific user of that database. You must have at least one database connection to use Oracle SQL Developer.

To create a connection from your Oracle SQL Developer to our database server, follow these steps:

- Right-click the **Connections** node in Oracle SQL Developer's **Connections Navigator**, and click **New Database Connection** to open the New/Select Database Connection dialog box.
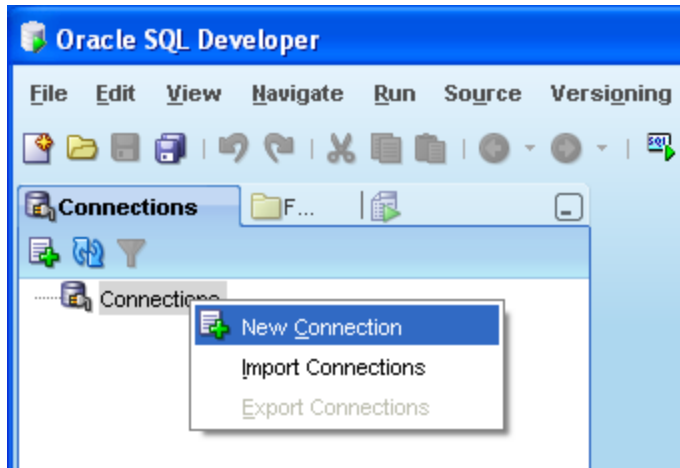
- Use the dialog box to specify information about the connection.

| Connection Name | An alias for a connection to the database using the information that you enter (e.g., csc452). |
|---|---|
| Username | It should be same as your CSTCIS account login name. (Do not put "CSTCIS" as prefix of your user name) |
| Password | The password for your Oracle account. (The default password is "cdm" plus last 7 digits of your DePaul ID, e.g., cdm0123456.) |
| Save Password | Do NOT check it if that is a public or shared computer. You may check it if that is a private computer. |
| Oracle \| Access \| | Oracle |
| Role | This is the set of privileges to be associated with the connection. Accept **default** for this connection. |
| Connection Type | Select **Basic** from the Connection type list. |
| OS Authentication | Leave this unchecked for this connection. |
| Proxy Connection | Leave this unchecked for this connection. |
| Host Name | This is the host system for the Oracle Database instance. Enter 140.192.30.211 for this connection. |
| Port | This is the listener port for the database. The default port for Oracle Database is 1521. |
| SID | This is the system identifier. Enter def for this connection. |
| Service Name | This is the network service name of the database. Leave this unchecked for this connection. |

- Click **Test** to validate the new connection**.**



- If your test reports "Status: Success", click **Connect**. The Oracle SQL Developer will save the new connection, close the dialog box, and connect to the database. (If you click **Save** instead of **Connect**, you will be able to create more new connections in the dialog box before connecting.)
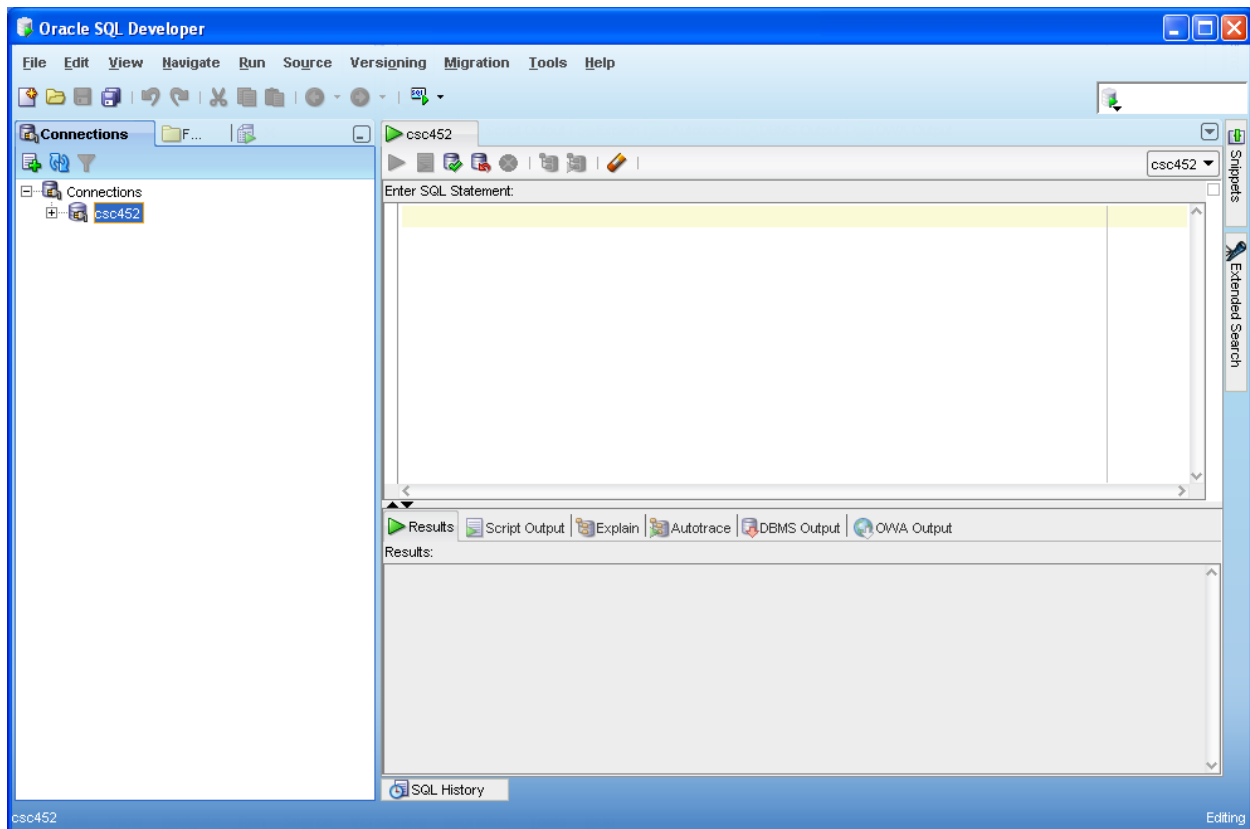
## 2) Accessing Oracle

Once you have a database connection, you are ready to browse the schema, query and modify data.

The Oracle SQL Developer window generally uses the left side for navigation to find and select objects, and the right side to display information about selected objects.

You can use the SQL Worksheet to enter and execute SQL, PL/SQL, and SQL*Plus statements. You can specify any actions that can be processed by the database connection associated with the worksheet, such as creating a table, inserting data, creating and editing a trigger, selecting data from a table, and saving that data to a file.

# If you have trouble trying to connect:

If you try to connect from your company machine to the CDM Oracle server, you may get the following error message:

**Status: failure – Test failed: Io exception: The network adapter could not establish the connection.**
The reason is that your company's network blocks the TCP port 1521. Please contact your company network manager.

# Oracle Database Error Code ORA-2391 Description:

exceeded simultaneous SESSIONS_PER_USER limit

**Error Cause:** An attempt was made to exceed the maximum number of concurrent sessions allowed by the SESSION_PER_USER clause of the user profile.

**How to Solve:** End one or more concurrent sessions.

**Please report problems accessing the CDM Oracle server to hchen@cdm.depaul.edu or czhang@cdm.depaul.edu.**