

# SQL Data Modeler

# SQL Developer

CS 630 Database Management Systems

Professor Nardi

# SQL Data Modeler...

- Oracle SQL Developer Data Modeler is a Free Graphical Tool That Allows You to Create and Maintain Data Models and Data Modeling Tasks...
- Oracle SQL Developer Data Modeler Allows You to Create, Browse and Edit Data Models...
- It Also Allow You to Both Forward and Reverse Engineer a Database...

# Downloading SQL Developer Data Modeler...

1. Go to [www.oracle.com](http://www.oracle.com) ...
2. Select “Downloads” ...
3. Select or scroll down to “Developer Tools” ...
4. Select “SQL Developer Data Modeler” ...
5. Accept the License Agreement...Select the Latest Version for Your Operating System (i.e., Windows, Mac, Linux)...For Windows, Select the 64-Bit Version...
6. Follow the Instructions...
7. Launch the Software to Verify That It Has Installed Properly...

# SQL Developer...

- Oracle SQL Developer is a Free, Integrated Development Environment for Developing and Managing Oracle Databases...
- It Has Many Features Including End-to-End Development of PL/SQL Applications, a Worksheet for Running Queries and Scripts, a DBA Console for Managing the Database, and a Reports Interface...

# Downloading SQL Developer...

1. Go to  
<https://www.oracle.com/database/technologies/appdev/sqldeveloper-landing.html>...
2. Select “SQL Developer” ...
3. Select the Latest Version for Your Operating System (i.e., Windows, Mac, Linux)...for Windows, Select the 64-bit Version...
4. Accept the License Agreement...and Click “Download” ...
5. Follow the Instructions...
6. Launch the Software to Verify It Has Installed Properly...

# A Few Quick Notes...

- I Will Provide You With an ID and Password to Use When Setting Up “SQL Developer”...I Would Wait to Complete the Install of SQL Developer Until I Give You Those IDs...
- Another Great Free Oracle Product is “Live SQL”...It Will Allow You to Run SQL Very Simply and Has Many Nice Features...
- NOTE: You May Need to Create an Account With Oracle to Use These Products...Creating an Account is Free and It Will Give You Access to Many of Oracle’s Products...It’s a Good Thing to Have!...

# Configuring Your SQL Developer...

**NOTE:** This Configuration is Only If You Downloaded and Installed From oracle.com

1. Right Click “Oracle Connections”...
2. Select “New Connection”...
3. You Should Get the Pop-Up to the Right...

The screenshot shows the 'New / Select Database Connection' dialog box. It has a left pane with 'Connection Name' and 'Connection Details' tabs. The right pane contains the following fields:

- Name: [Empty text box]
- Database Type: Oracle (dropdown)
- User Info: Proxy User (tab)
- Authentication Type: Default (dropdown)
- Username: [Empty text box]
- Role: default (dropdown)
- Password: [Empty text box]
- Save Password: ☐
- Connection Type: Basic (dropdown)
- Details: Advanced (tab)
- Hostname: localhost (text box)
- Port: 1521 (text box)
- SID: xe (radio button selected, text box)
- Service name: [Empty text box]

At the bottom, there is a 'Status:' label and a row of buttons: Help, Save, Clear, Test, Connect, and Cancel.

# Configuring Your SQL Developer...

4. Enter the Fields Circled On the Screen to the Right...Make Sure You Use YOUR OWN Username and Password...
5. Select "Save"...

The screenshot shows the 'New / Select Database Connection' dialog box in SQL Developer. The 'Connection Details' tab is selected. The following fields are circled in red:

- Name:** Monroe-Oracle
- Database Type:** Oracle
- User Info:**
  - Authentication Type:** Default
  - Username:** Nnardi
  - Password:** (masked with dots)
  - Role:** default
  - Save Password:** ☒
- Connection Type:** Basic
- Details:**
  - Host name:** oracle.monroecollege.edu
  - Port:** 1521
  - SID:** xe
  - Service name:** oracle.monroecollege.edu

A red arrow points from step 5 of the instructions to the 'Save' button at the bottom of the dialog.



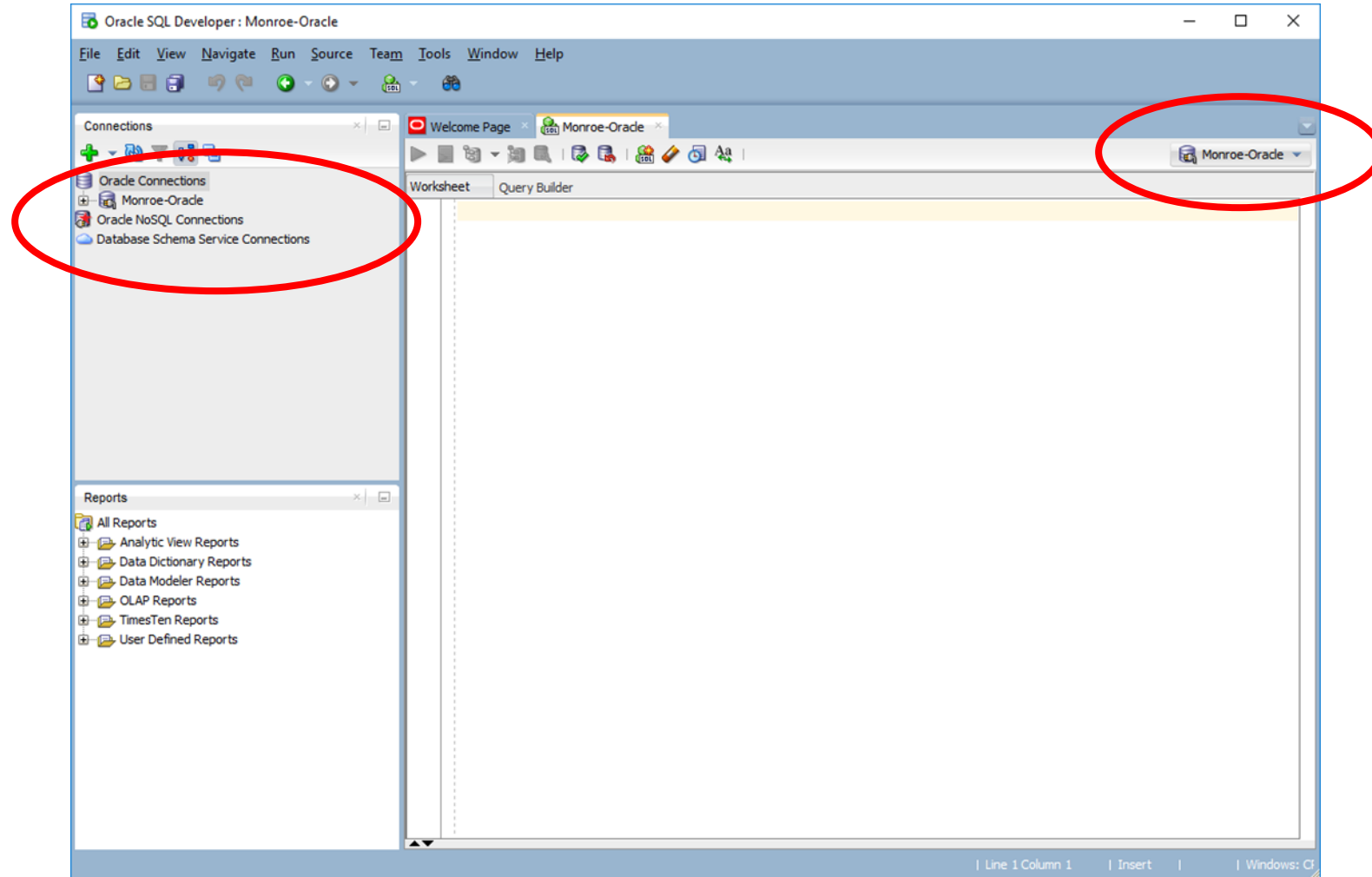
# Configuring Your SQL Developer...

6. Select “Save” ...
7. Your Screen Should Look as It Does to the Right...

The screenshot shows the 'New / Select Database Connection' dialog box. The 'Connection Name' and 'Connection Details' tabs are visible, with 'Monroe-Oracle' and 'Nnardi@//orade....' respectively. The 'Details' tab is active, showing fields for Hostname (oracle.monroecollege.edu), Port (1521), and Service name (oracle.monroecollege.edu). The 'Save' button is highlighted.

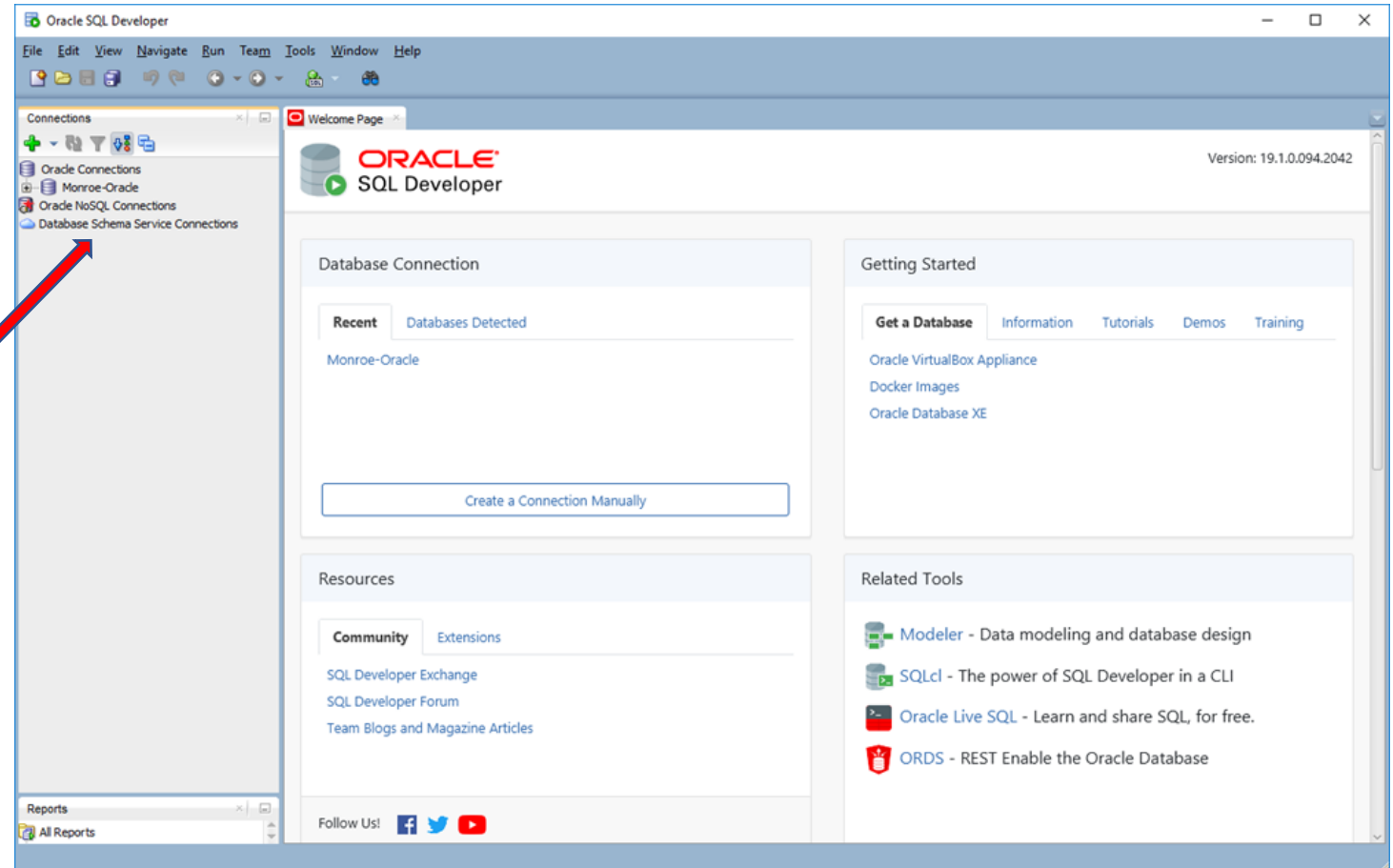
# Configuring Your SQL Developer...

8. Select “Connect”...You Should Be Returned to the Main Screen...



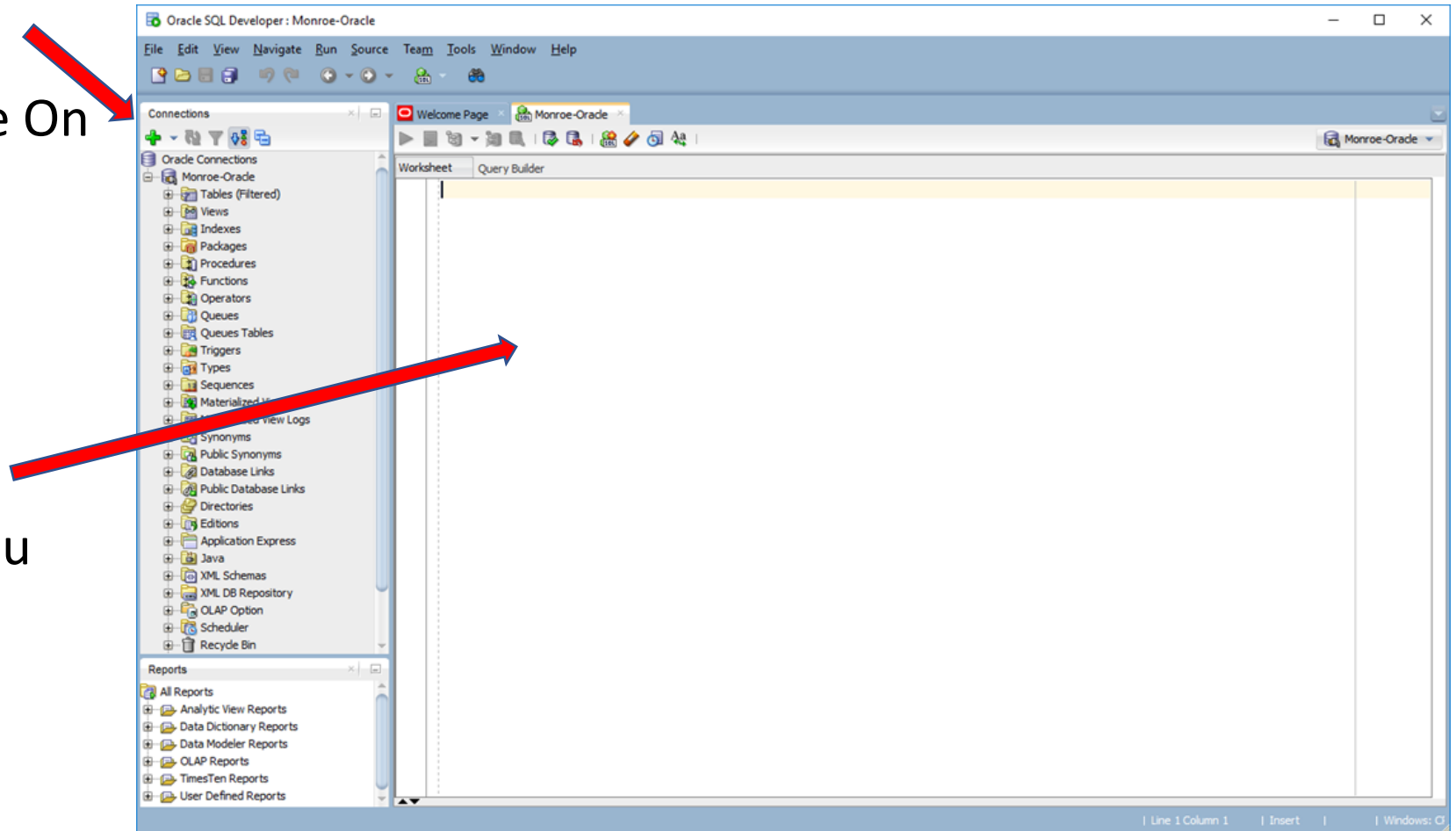
# Using SQL Developer Environment...

1. Once You Install SQL Developer and Set Up the Connection, You Should Get the Screen to the Right When Loading SQL Developer...
2. Click on the “Monroe-Oracle” Connection...
3. You Will Now Enter the SQL Developer Environment...



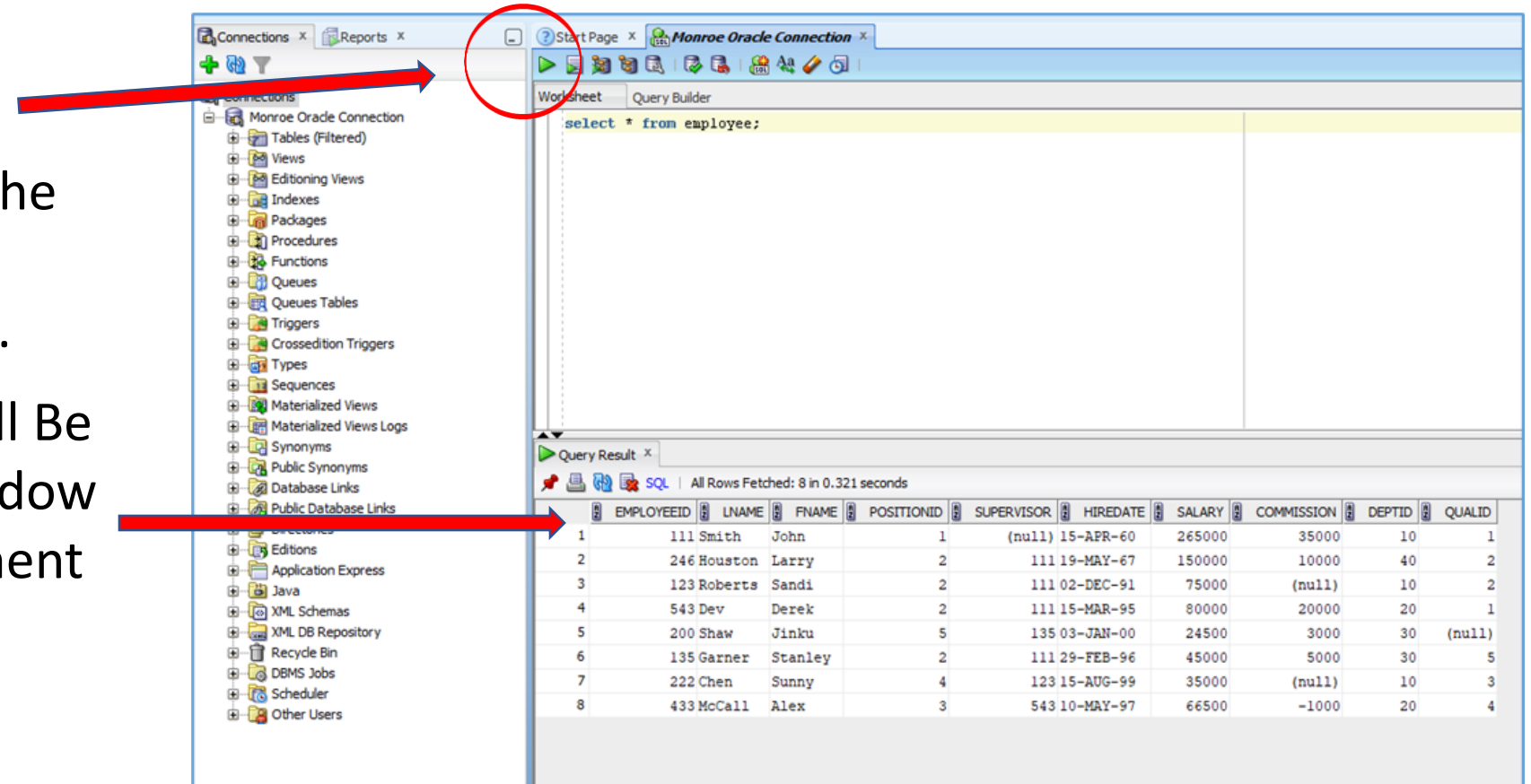
# Using SQL Developer Environment...

4. Object Explorer Will Be On the Left Side of the Screen...
5. The Right Side of the Screen Will have the Worksheet / Editor Area...This is Where You Will Write Your SQL Statements...



# Using SQL Developer Environment...

6. After Keying in Your Statement, Click on the Green Play Button to Execute Your Query...
7. The Query Result Will Be Displayed in the Window Beneath Your Statement Window...



# Questions...