Quick Reference Guide

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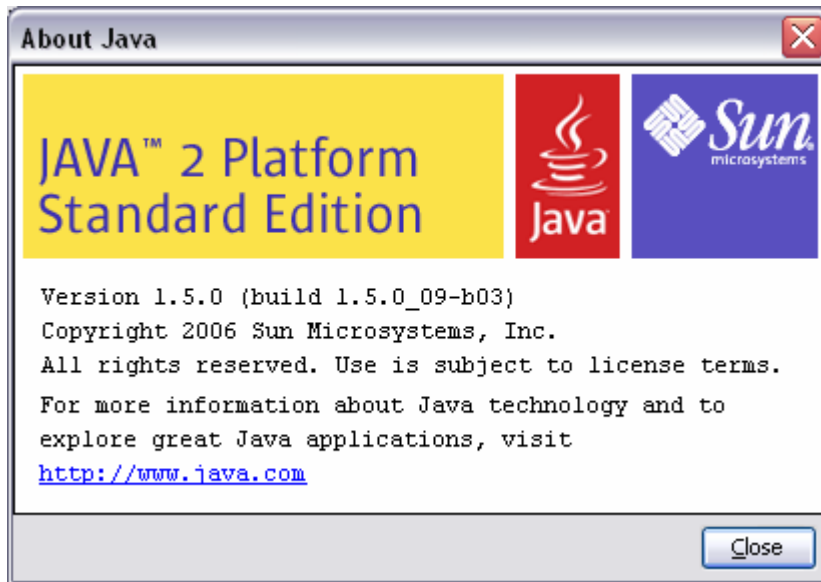
Java

Your computer must have the *Java Runtime Environment Version 1.5* or higher installed. If you do not have any version installed, one can be obtained by clicking the following link: http://www.java.com/en/download/windows_xpi.jsp. If you already have a version of the *Java Runtime Environment*, proceed with the following directions for checking the version number.

In *Microsoft Windows*

1. Navigate to the *Control Panel*.
2. Double-click on *Java*.
3. In the *Java Control Panel*:
   a. Click the *About…* button.
   b. Check to see if the version is 1.5 or higher.

c. Close the *About Java* window.

d. If the version is lower than 1.5:

   i) Select the *Update* tab.

   ii) Click the *Update Now* button.

SVN and *Tortoise Shell*

Subversion (*SVN*) is a version control system that allows you to have the most up-to-date version of the files and programs associated with *DSM2*. *Tortoise Shell* is an interface for *SVN* that is integrated into *Windows Explorer*.

The latest files and programs for *DSM2* will now be in a repository at *\\delta-mod\Share\Studies\DSM2*. After installing *DSM2*, *SVN*, and *Tortoise Shell*, special icons will show up in *Windows Explorer* telling you whether you have the latest version. A small green check mark indicates that your file is up-to-date. A small red exclamation point indicates that your file is out-of-date. If your version is outdated, simply right-click a file or directory, and select *SVN Update.*
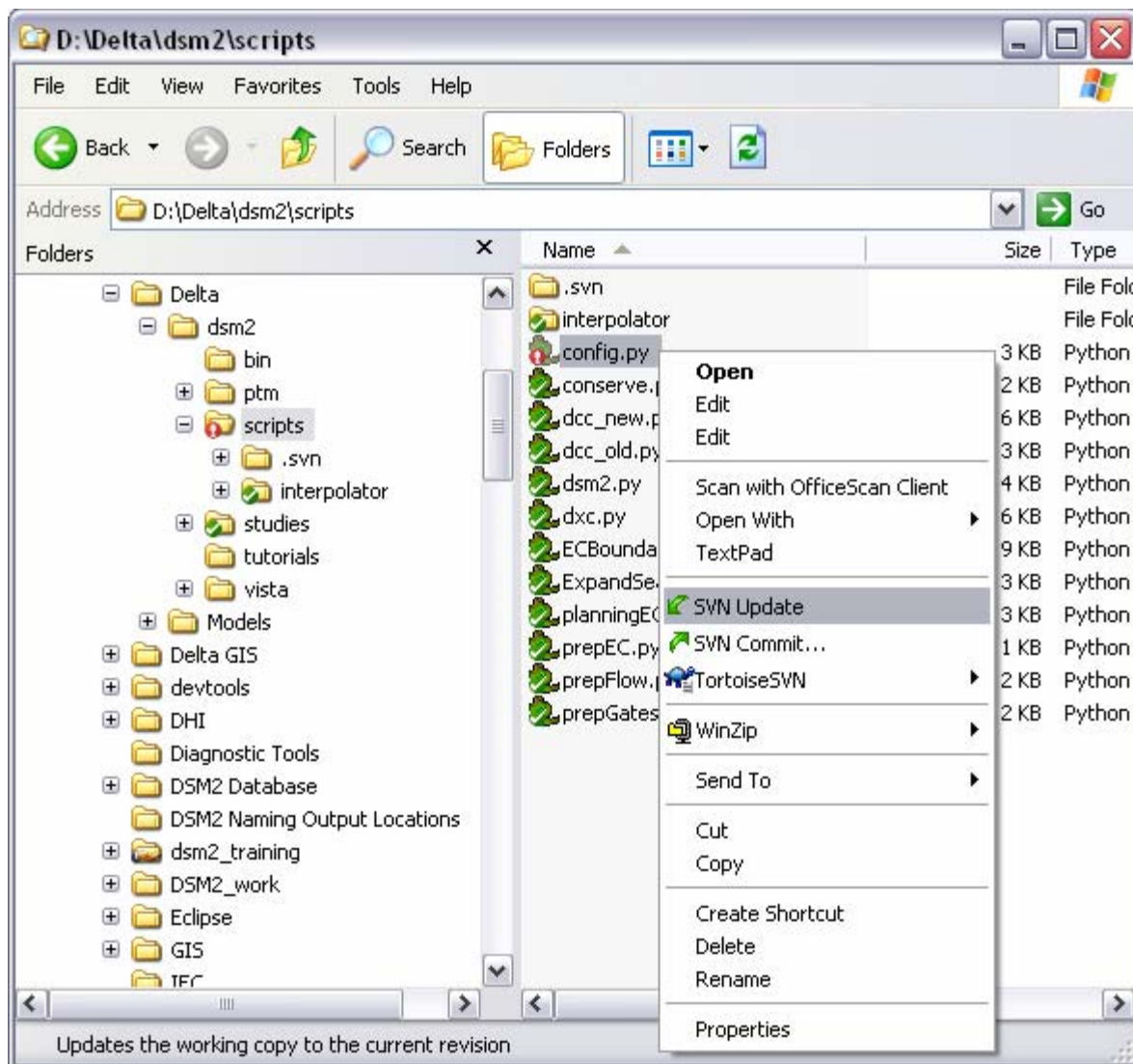
The following directions are for installation:

1. Click on the following link: *\\delta-mod\YDrive\SoftwareUpdates\SVN*.

    a. To install *SVN*, double-click:

       svn-1.4.0-setup.exe.

    b. To install *Tortoise Shell*, double-click:

       TortoiseSVN-1.4.0.7501-win32-svn-1.4.0.msi.

Database Configuration

DSM2 Version 7 stores simulation data in a database. You can choose between using *Informix*, a network database; and *Microsoft Access*, a personal database. Preferably, DWR employees would use the *Informix* database, with all layer information being shared. The *Microsoft Access* database would be used for non-DWR employees, and for DWR employees who wish to preserve the database as it was at the time of their model run.

Scripts are provided that allow the DWR user to make a *Microsoft Access* copy of the *Informix* database. The users can then archive their personal database file in a folder of their choosing. At any time, the GUI can be configured to utilize this preserved database.

You must have an *Informix* account to gain access to the *Informix* database. If you do not have an *Informix* account, you can email Mike Mullen of Computer Assistance at mmullen@water.ca.gov, and he will send you a password.

For the use of either database, drivers must be installed, and connections must be established. *Informix* makes use of both an Open Database Connectivity (ODBC) and a Java Database Connectivity (JDBC). *Microsoft Access* makes use of only an ODBC connection.
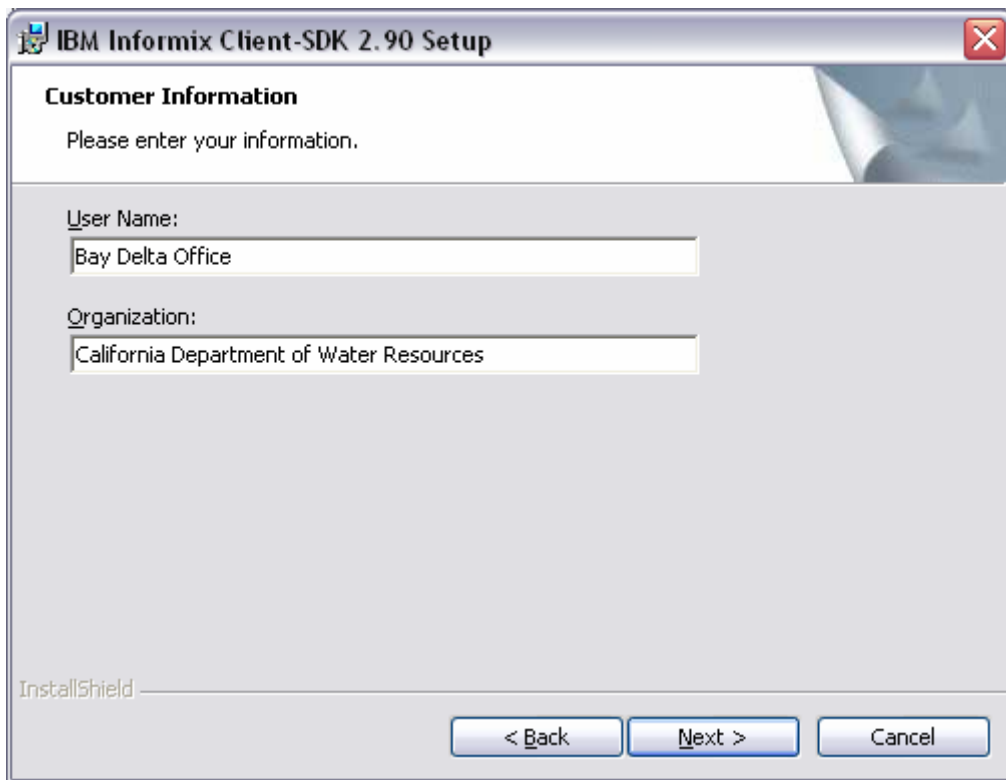
Verify the *Informix* driver is installed

In *Microsoft Windows*

1. Navigate to the *Control Panel.*
2. Double-click on *Administrative Tools.*
3. Double-click on *Data Sources (ODBC).*
4. Select the *Drivers* tab.
5. Check if the *IBM INFORMIX ODBC DRIVER* (version 2.9 or higher) is on the list.
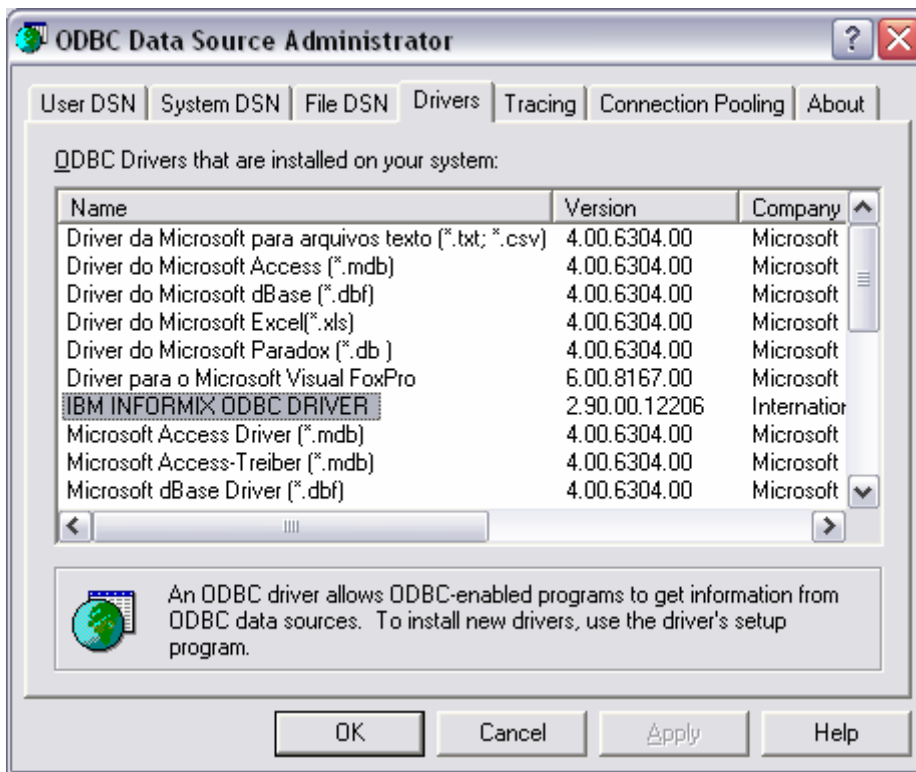
6. If the driver is installed, skip to the following section on establishing the ODBC connection. If the driver is missing, continue with the following directions:

7. Click the following link: \\delta-mod\YDrive\SoftwareUpdates\Informix.

8. Double-click the file: *clientsdk.2.90.TC1.zip*.

9. Extract the contents to a temporary folder, and navigate to that folder.

10. Double-click the file: *IBM Informix Client-SDK.msi*.

11. In the setup window:

    a. Click *Next >*.

    b. Accept the license agreement and click *Next >*.

    c. Enter any *User Name* and *Organization*, and click *Next >*.

d. Select a *Custom* setup and click *Next >*.

e. Accept the default directory and click *Next >*.

f. Deselect everything but the *IBM Informix ODBC Driver* by left-clicking the other items and selecting the red **x**. Then click *Next >*.
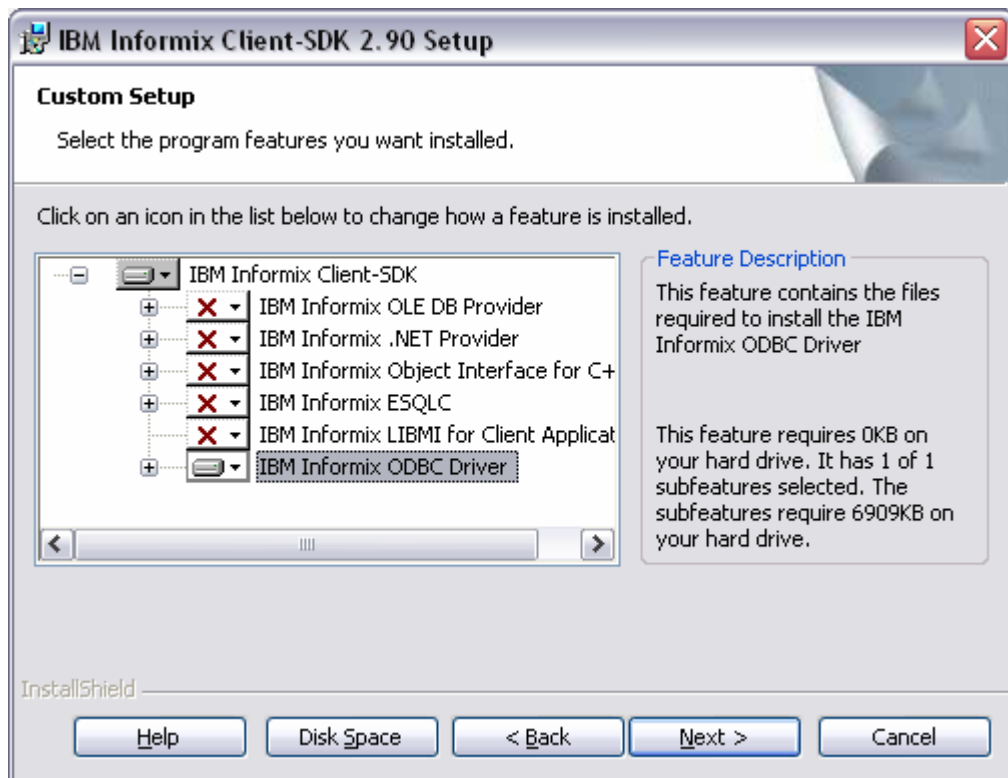
g. Click *Install*.

h. Click *Finish*.

Establish an ODBC data source for the *Informix Database*

In *Microsoft Windows*

1. Navigate to the *Control Panel*.

2. Double-click on *Administrative Tools.*

3. Double-click on *Data Sources (ODBC).*

4. Select the *System DSN* tab and click *Add….*

5. Select the *IBM INFORMIX ODBC DRIVER* and click *Finish*.
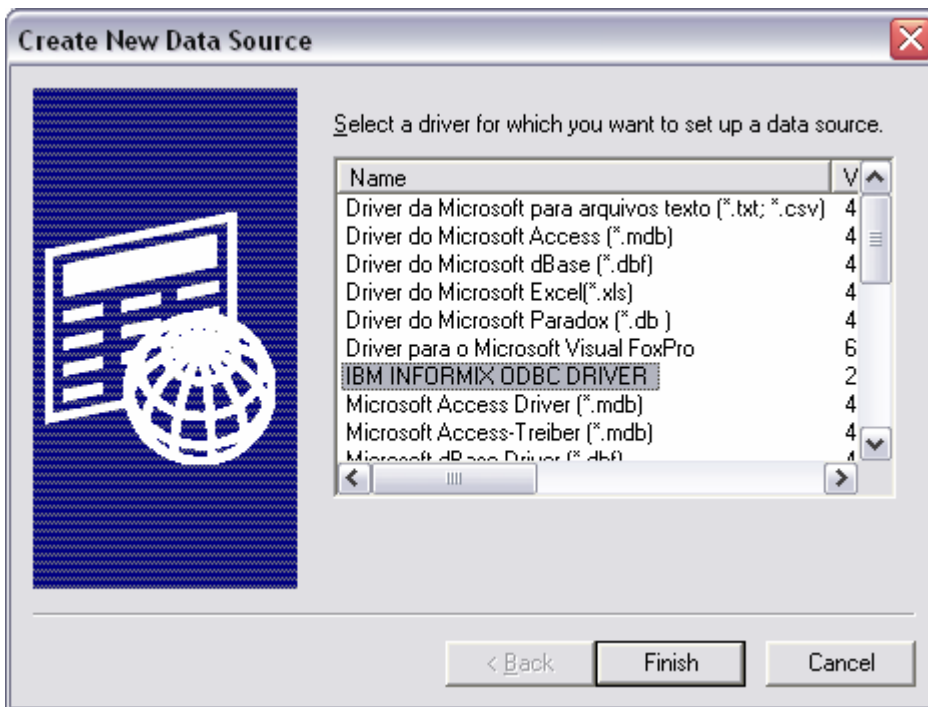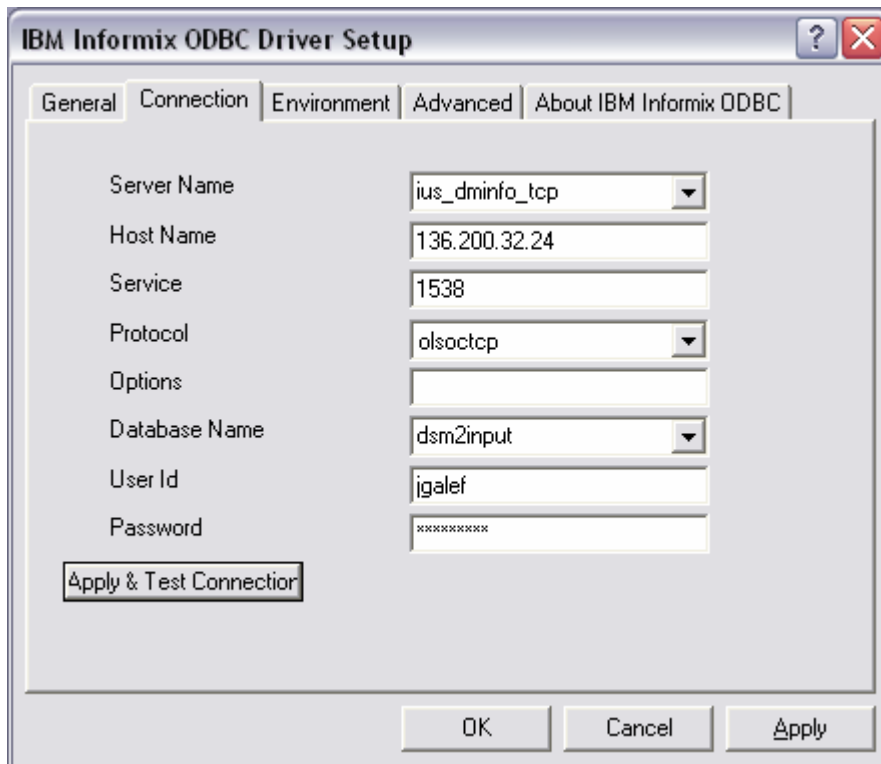
6. Under the *General* tab, enter *dsm2input* for the *Data Source Name*, and provide a description.
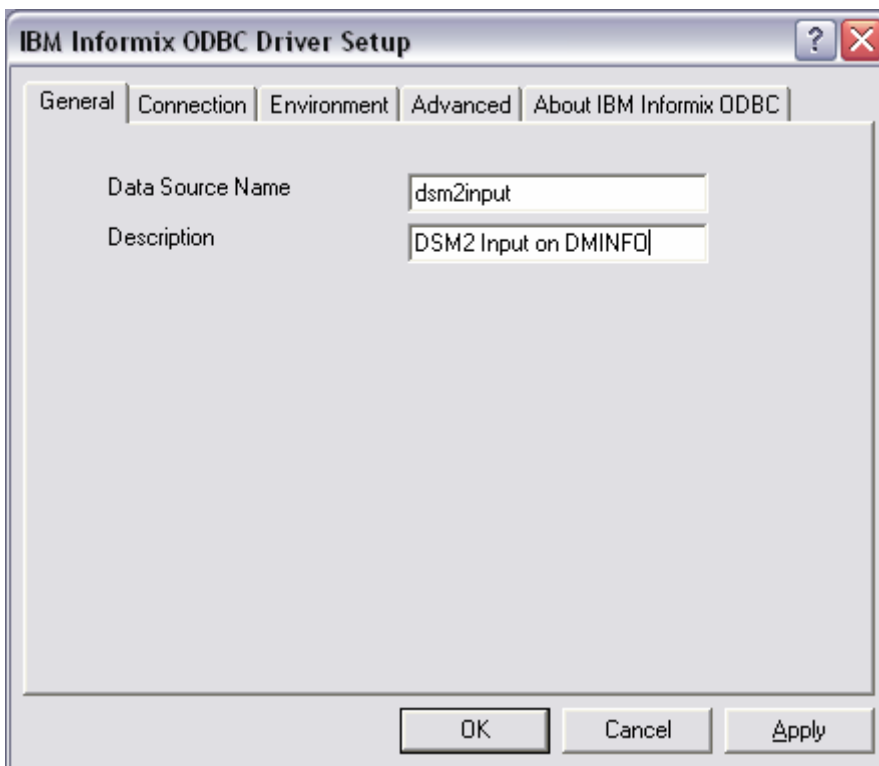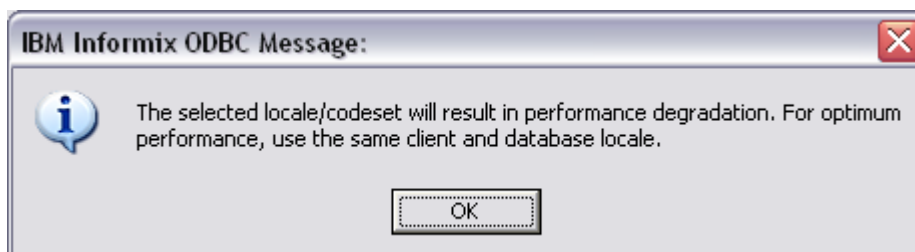
7. Under the *Connection* tab, enter the following information:
   a. Server Name: *ius_dminfo_tcp*

b. Host Name: *136.200.32.24*

c. Service: *1538*

d. Protocol: *olsoctcp*

e. Database Name: *dsm2input*

f. User Id: use **your** username

g. Password: enter the password provided by Computer Assistance (Mike Mullen).

h. Click the *Apply & Test Connection* button.

i. If connection was successful, click *OK*.

j. Click *OK* to accept the degradation message.

Establish a JDBC data source for the *Informix Database*

In the GUI

1. Click on the *Tools* menu.

2. Select *Configure Database*.

3. For the *JDBC URL*, copy and paste the following :

jdbc:informix-sqli://136.200.32.24:1538/dsm2input:informixserver=ius_dminfo_tcp

4. For the *JDBC driver*, copy and paste the following:

    com.informix.jdbc.IfxDriver

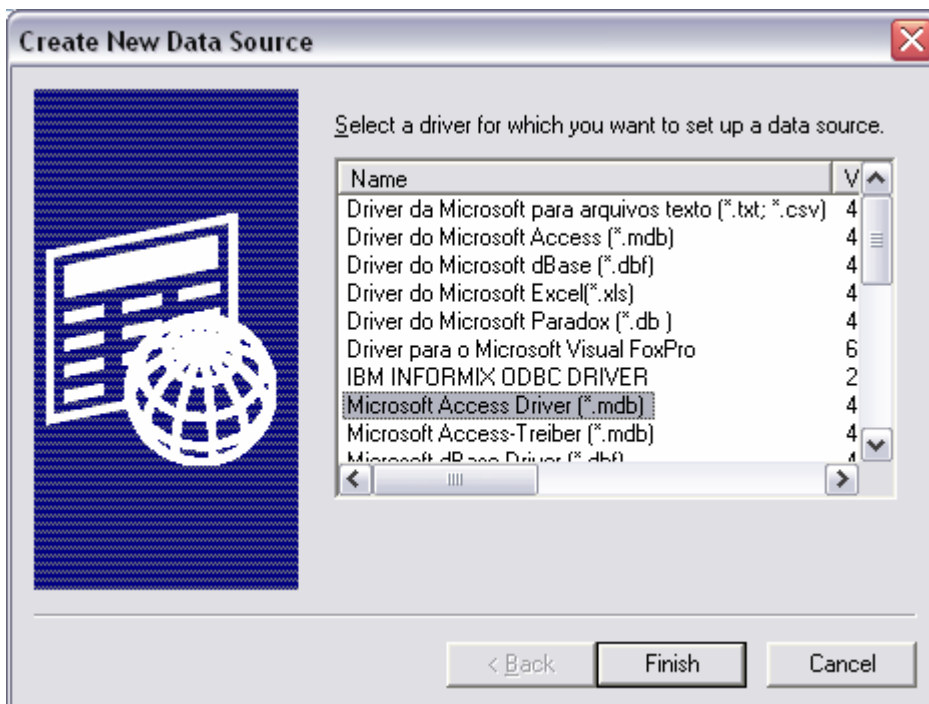5. Enter your username and *Informix* password.

Establish an ODBC data source for the *Microsoft Access* Database

In *Microsoft Windows*

1. Navigate to the *Control Panel*.

2. Double-click on *Administrative Tools.*

3. Double-click on *Data Sources (ODBC)*.
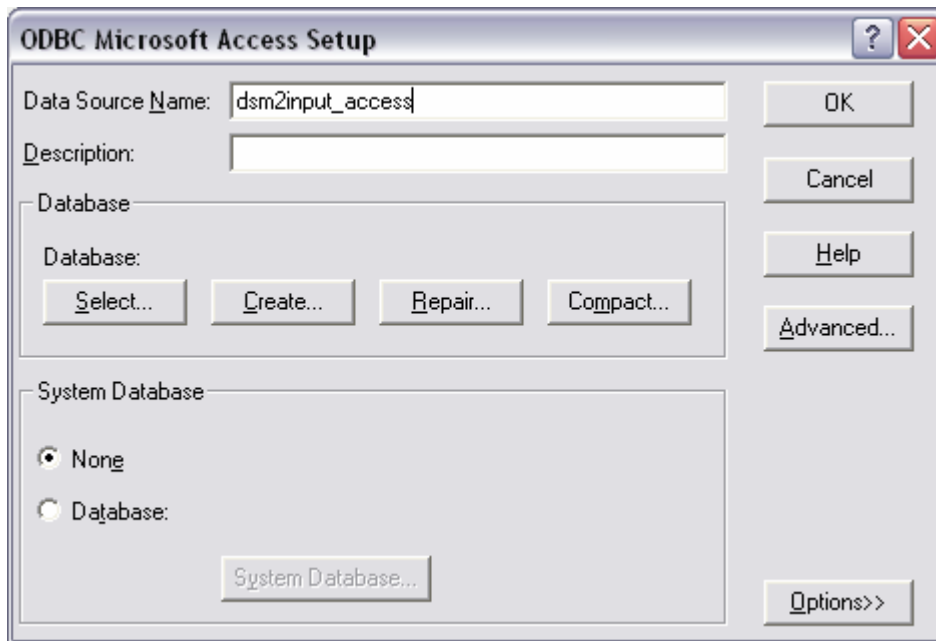
4. Select the *System DSN* tab and click *Add….*
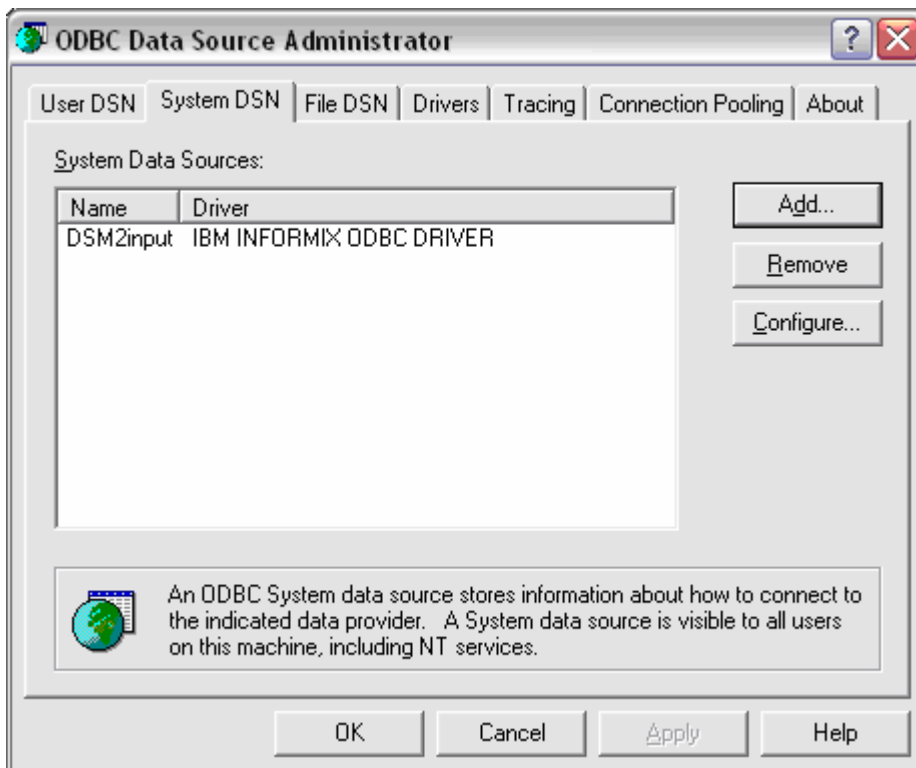
5. Select the *Microsoft Access Driver (*.mdb)* and click *Finish*.

6. In the *ODBC Microsoft Access Setup* Window:

a. For the *Data Source Name*, type *dsm2input_access*.

b. In the *Database* section, click on *Select…*

c. In the *Select Database* window:

   i) Under the *Drives* section, select the drive letter where the tutorial is stored.

   ii) In this document, the directory where you installed DSM2 will be referred to as *{DSM2_home}*. E.g., if you accepted the default install directory, *{DSM2_home}* would be *d:\delta\dsm2*.

   iii) Under the *Directories* section, navigate to *{DSM2_home}\dbase*.

   iv) Under the *Database Name* section, select *DSM2input.mdb*.
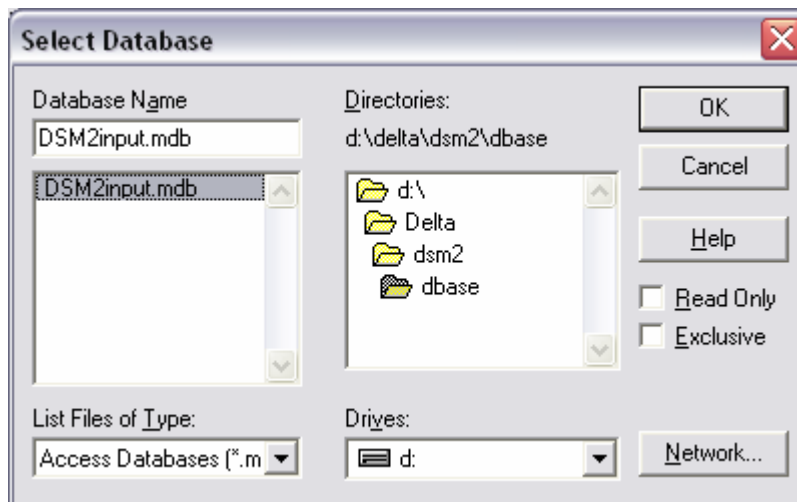
   v) Click *OK.*

d. In the *ODBC Microsoft Access Setup* Window, click *OK.*

Select either *Informix* or *Access* as your database

<u>In the GUI</u>

1. Click on the *Tools* menu.
2. Select *Configure Database*.
3. Here is where you select which database to use.
4. For *Informix*:
   a. Select *JDBC Source*.

   b. Make certain the proper information is given in the *JDBC URL* and *JDBC driver* input boxes. (See previous section if necessary)
5. For *Microsoft Access*:
   a. Select *ODBC source (named in system files)*.
   b. Fill-in the name of the personal database file in the *ODBC DSN* box.

This must match the name given in the *Data Sources (ODBC)* window of the *Administrative Tools* of the *Control Panel*.