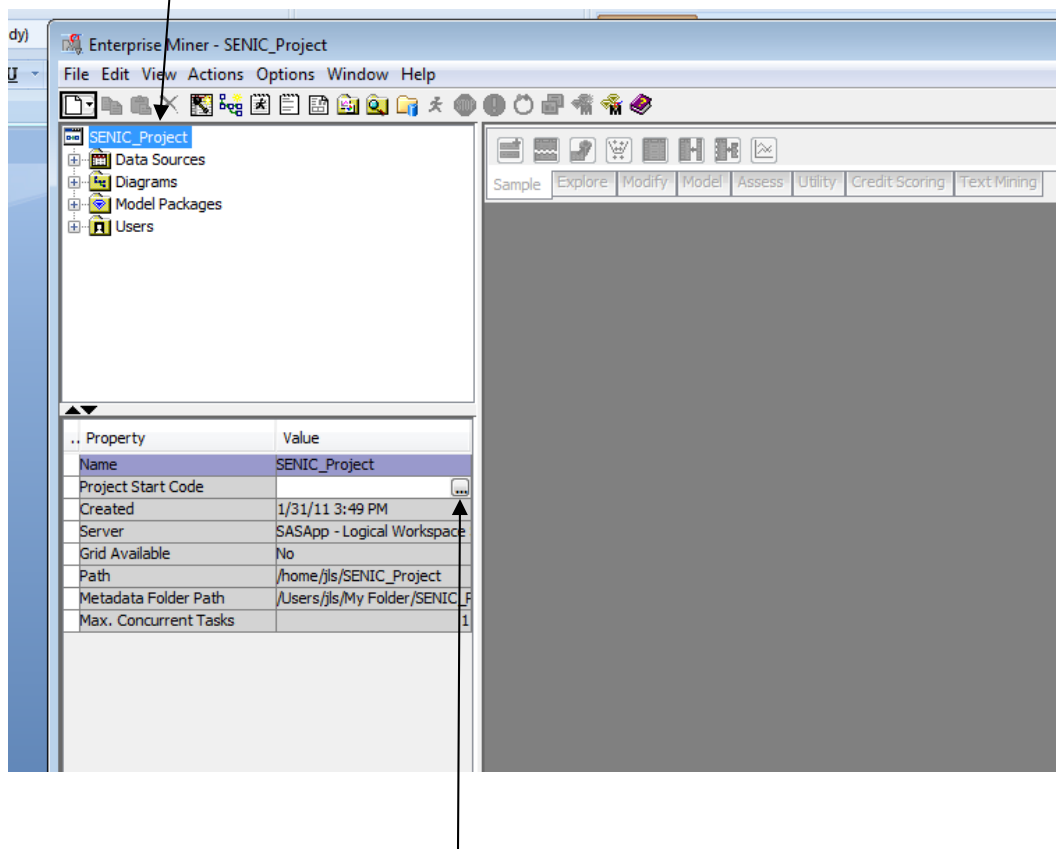


Homework 4

Using SAS Enterprise Miner, create a new project (named SENIC_Project) that will use the SENIC data set.

Click on the project name in the Project Panel.



In the Properties Panel, click on the ellipses button on the Project Start Code line.

If, in the process of registration, you registered for access to the course named:

Stat 474 – Spring 2012 – Sec. 23850: Data Mining

Then copy and paste the following LIBNAME statement into the first line:

```
libname dmdata "/courses/u_utm.edu1/i_10836/c_3302/saslib/" access=readonly;
```

NOTE: make sure you copy the entire line, including the semicolon at the end.

If, instead, in the process of registration, you registered for access to the course named:

Stat 474 – Sec. 1: Introduction to Data Mining

Then copy and paste the following LIBNAME statement into the first line:

```
libname dmdata "/courses/u_utk.edu1/i_10836/c_1726/saslib" access=readonly;
```

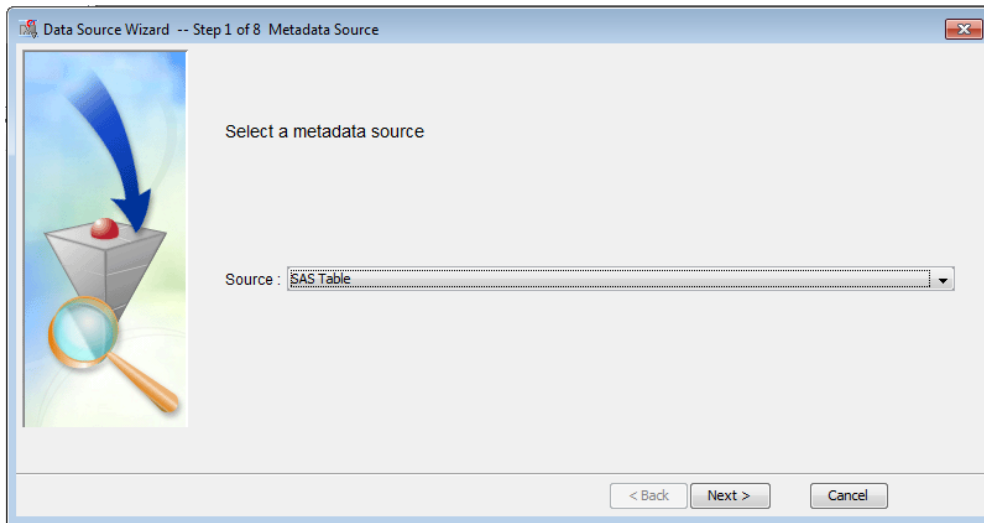
NOTE: make sure you copy the entire line, including the semicolon at the end.

After you paste this statement into line 1, hit the ENTER key on your keyboard, which takes you to line 2. Now, in the lower right hand corner, the “Run Now” button is active. Click on the “Run Now” button. Next, click “OK”.

If you get an error message when you run one of the above LIBNAME statements, try the other one. If you get an error message for both, then you will need to re-do the registration process, and sign up for:

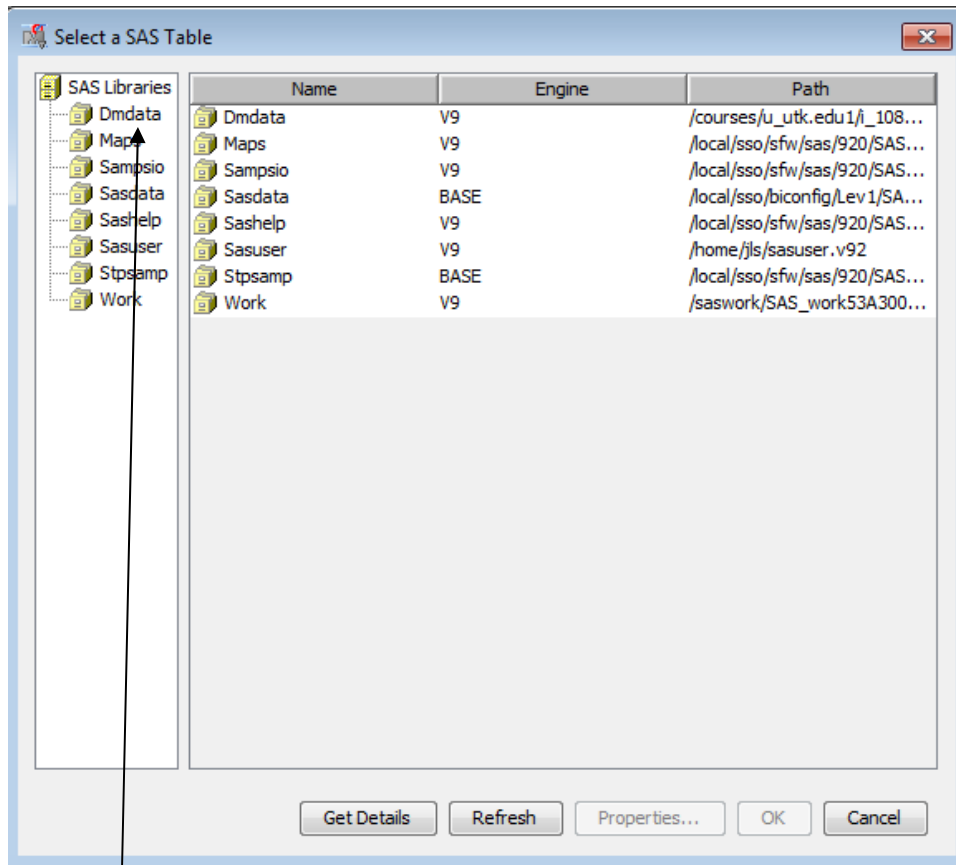
Stat 474 – Spring 2012 – Sec. 23850: Data Mining

Next, in the Project Panel, right-click on “Data Sources”, and click on “Create Data Source”. The “Data Source” wizard opens.

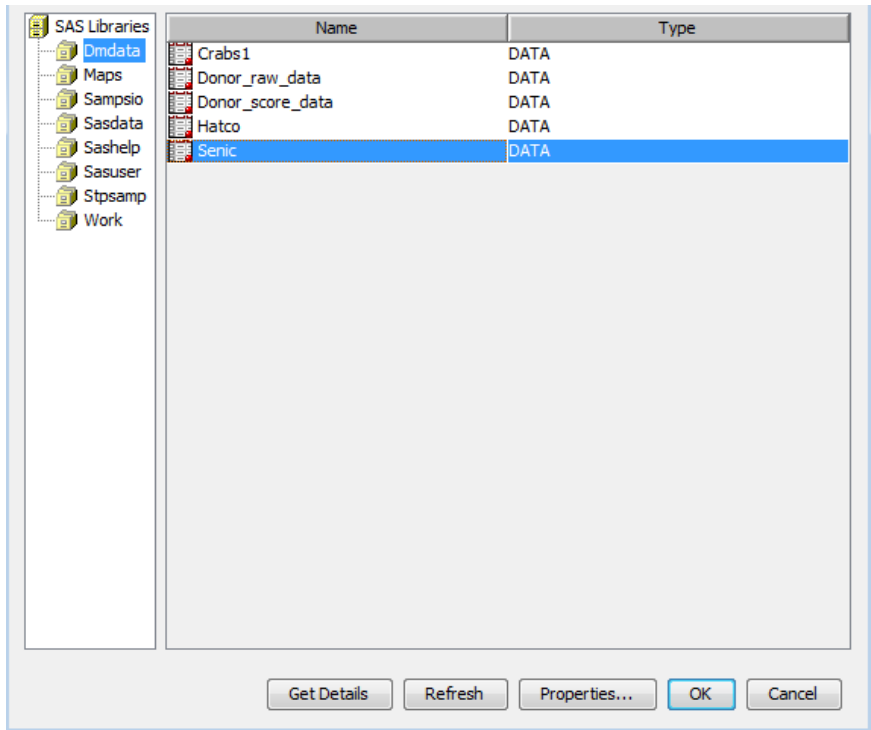


Step 1: Click Next.

Step 2: Select the "Browse" button. The "Select a SAS table" window opens.



Click on Dmdata in the upper right.



Click on OK. Click Next to go to Step 3.

Step 3: Click Next.

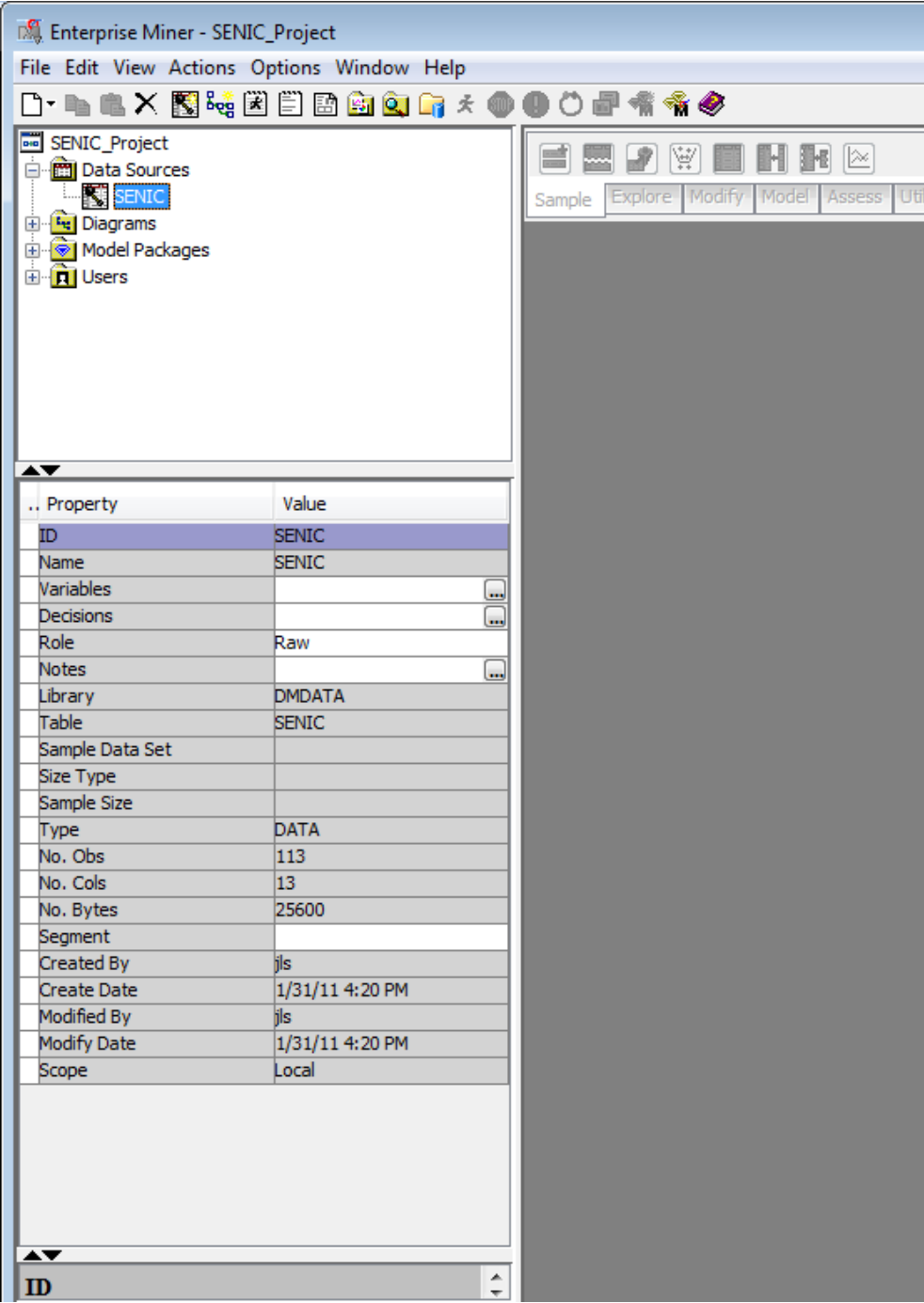
Step 4: Select Advanced. Click Next.

Step 5: Set the role of X7 to Target. Set the roles of X2, X5, X9, X10 to Input. Set the roles of all other variables to Rejected. Click Next.

Steps 6-8: Click Next.

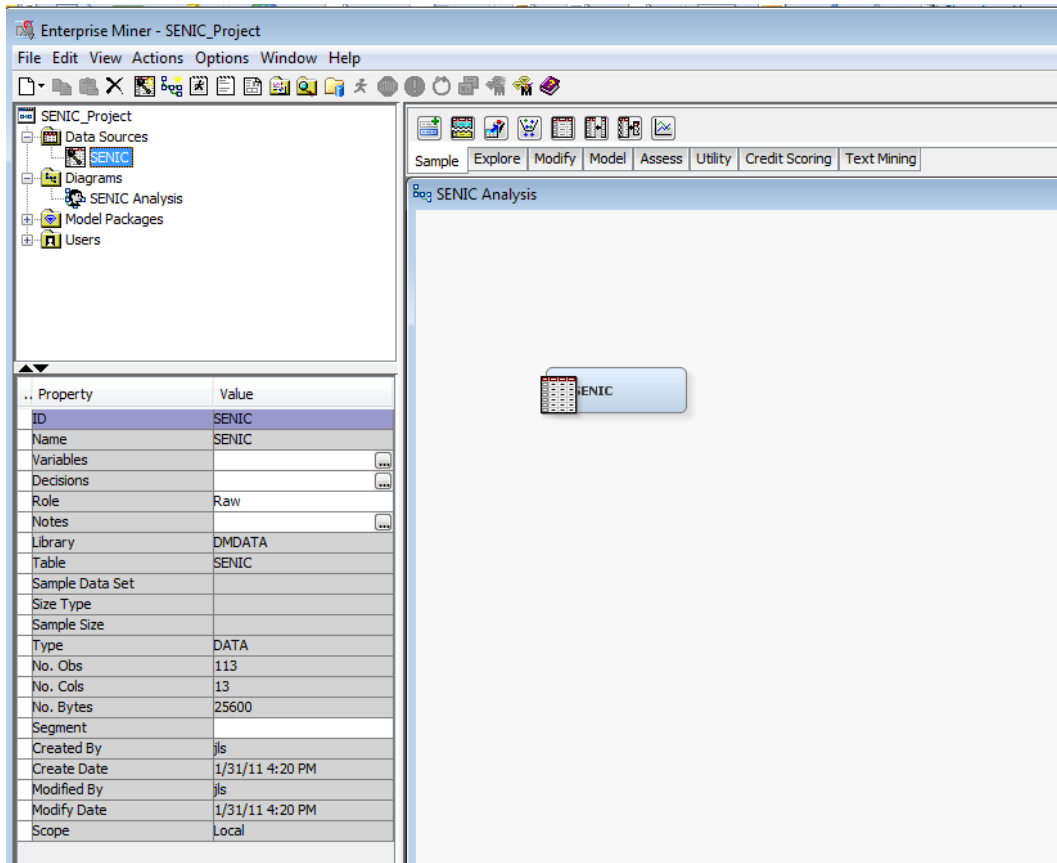
Step 9: Click Finish.

Wait a small amount of time until the SENIC data set appears under “Data sources” in the Project Panel.



In the Project Panel, right-click on Diagrams, then click on "Create Diagram". In the "Create New Diagram" window, name the diagram SENIC Analysis.

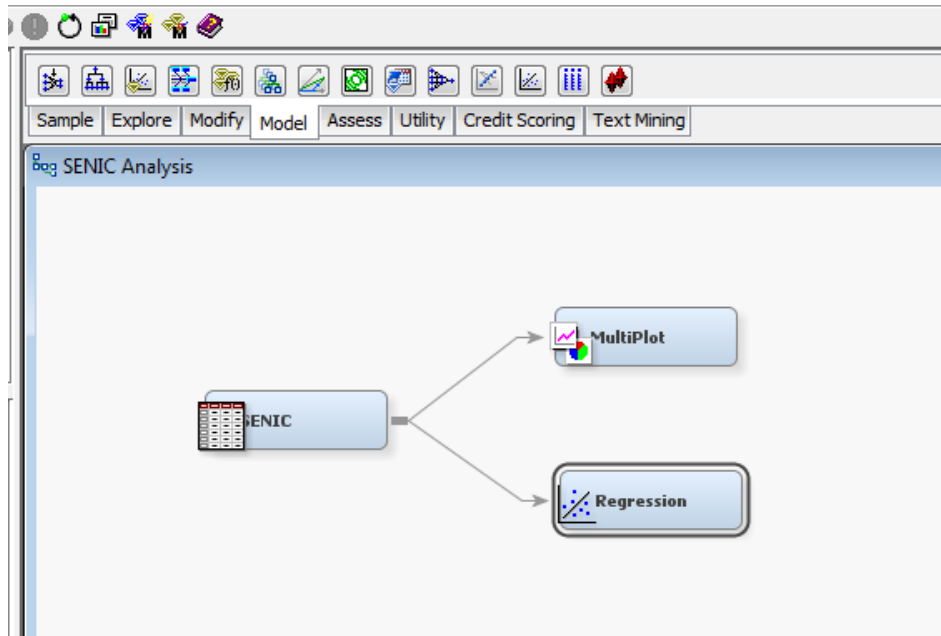
Click on the SENIC data source, and drag it into the Diagram Workspace.



From the Explore tab, drag a Multiplot node onto the Diagram Workspace.

From the Model tab, drag a Regression node onto the Diagram Workspace.

Connect the data source node to each of the other two nodes.



Right-click on the Multiplot node, and select Run. Once complete, view the Results. View the 4 graphs. Copy the graph X10 by X7, and paste it into a word document. Close the Results windows.

Click on the Regression node. In the Properties Panel, go down to Model Selection, and select Backward for Selection Model. Run the Regression node. Once complete, view the Results. Maximize the Output window. Scroll down to just beyond the end of Step 3. Copy the “Analysis of Maximum Likelihood Estimates” section, and the following “Odds Ratio Estimates” section, and paste them into a Word document.

Send the results to the grader.