

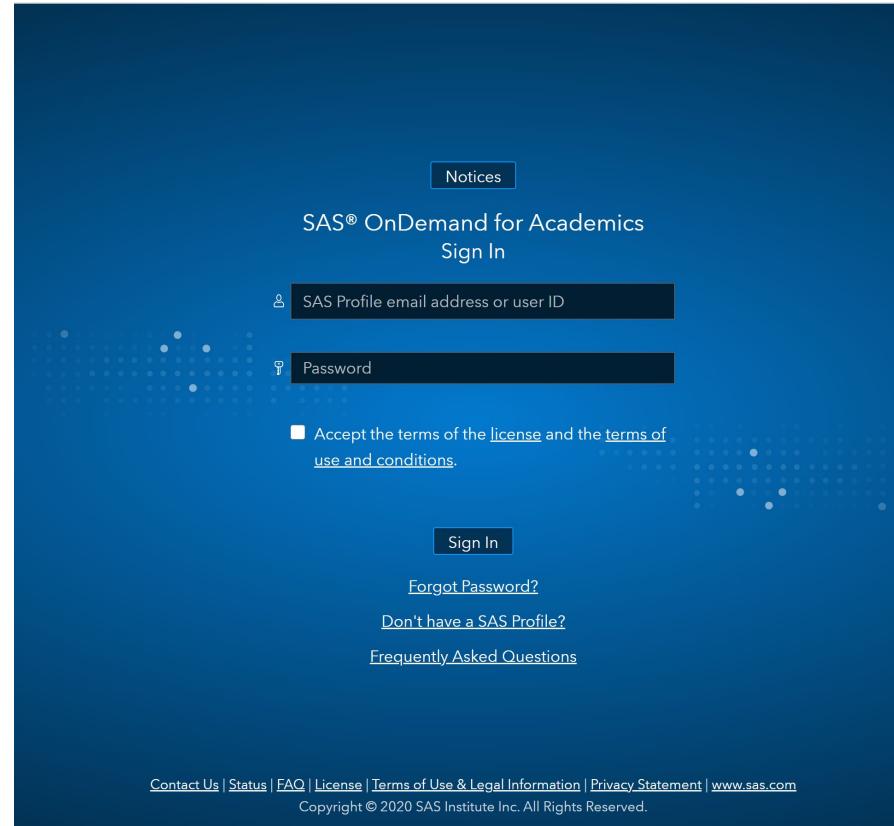
ANLT5050

Unit 1 Assignment 1 Tutorial



Access the SAS OnDemand for Academics Control Center

<https://odamid.oda.sas.com/SASODAControlCenter>



SAS OnDemand for Academics (SODA) Control Center

The screenshot shows the SAS OnDemand for Academics (SODA) Control Center dashboard. At the top, there is a navigation bar with the SAS logo, a dropdown menu for 'United States' (selected), and a user profile for 'Stefanie Reay'. Below the navigation bar, the title 'SAS® OnDemand for Academics Dashboard' is displayed, along with two buttons: 'Planned Events' and 'Notices'. A horizontal navigation bar below the title includes tabs for 'Applications' (selected), 'Enrollments', and 'Courses'. The main content area displays five application cards:

- SAS® Studio**: Write and run SAS code with a Web-based SAS development environment. Actions: [Clear my saved tabs.](#)
- SAS® Enterprise Guide®**: Deliver the power of SAS from an easy-to-use, point-and-click interface. ([Download Required](#))
- SAS® Enterprise Miner™**: Reveal valuable insights with powerful data mining software. ([Configuration Steps Required](#)) Actions: [Clear my project locks.](#)
- SAS® Forecast Studio**: Generate large numbers of high-quality forecasts automatically. ([Configuration Steps Required](#)) Actions: [Manage your personal environment.](#)
- JMP® Software access to SAS® hosted servers**: Statistical discovery software. Users must have a copy of JMP® software. ([Configuration Steps Required](#))

On the right side of the dashboard, there is a 'Reference' section with links to 'Support Site', 'Step-by-Step Reference Guides', and 'Frequently Asked Questions'. Below this, there is a 'Quotas' section showing usage statistics for 'Home Directory' (46.5MB/5120MB, 1% used) and 'Course Directory' (207.0MB/3072MB, 7% used).

At the bottom of the dashboard, there is a link to 'Other Ways to Access SAS® OnDemand for Academics Resources'.



Data in the SAS OnDemand for Academics environment

- To upload data for use in the SAS OnDemand for Academics environment, you must upload it through SAS Studio
- Once you upload the files in SAS Studio, they will be accessible through SAS Studio, SAS Enterprise Guide, and SAS Enterprise Miner



Click on “SAS Studio” to start SAS Studio

The screenshot shows the SAS OnDemand for Academics Dashboard. At the top, there is a navigation bar with the SAS logo, a dropdown for 'United States' (set to 'Stefanie Reay'), and a user profile icon. Below the navigation bar, the title 'SAS® OnDemand for Academics Dashboard' is displayed. Underneath the title, there are two buttons: 'Planned Events' and 'Notices'. A horizontal menu bar contains three items: 'Applications' (which is underlined, indicating it is selected), 'Enrollments', and 'Courses'. The main content area displays five application cards:

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- SAS® Enterprise Guide®**: Deliver the power of SAS from an easy-to-use, point-and-click interface. ([Download Required](#))
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- JMP® Software access to SAS® hosted servers**: Statistical discovery software. Users must have a copy of JMP® software. ([Configuration Steps Required](#))

On the right side of the dashboard, there is a 'Reference' section with links to 'Support Site', 'Step-by-Step Reference Guides', and 'Frequently Asked Questions'. Below the reference section, there are two quota status bars: 'Home Directory (46.5MB/5120MB)' at 1% and 'Course Directory (207.0MB/3072MB)' at 7%.

At the bottom of the dashboard, there is a link 'Other Ways to Access SAS® OnDemand for Academics Resources'.



Click on “Files (Home)” to make the upload button appear in dark blue.

The screenshot shows the SAS Studio interface. On the left, there is a sidebar titled "Server Files and Folders" which contains a list of items: "odaws02-usw2", "Folder Shortcuts", and "Files (Home)". The "Files (Home)" item is highlighted with a blue selection bar. To the right of the sidebar is a main workspace titled "Program 1". The workspace has three tabs: "CODE", "LOG", and "RESULTS". Below the tabs is a toolbar with various icons. The "CODE" tab is active. At the bottom of the workspace, there is a status bar showing "UTF-8", a green circular icon with a white letter "G", and the text "User: stefaniegreay".

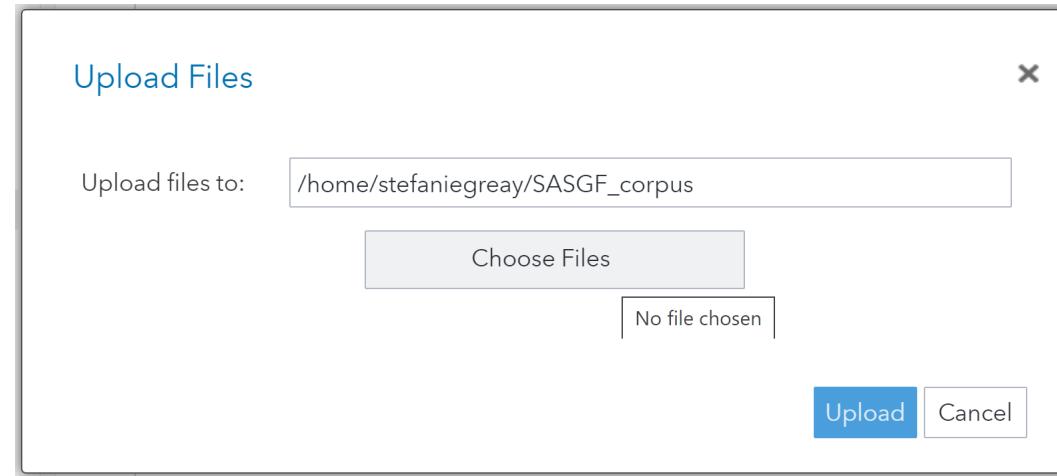


Click on “Upload”

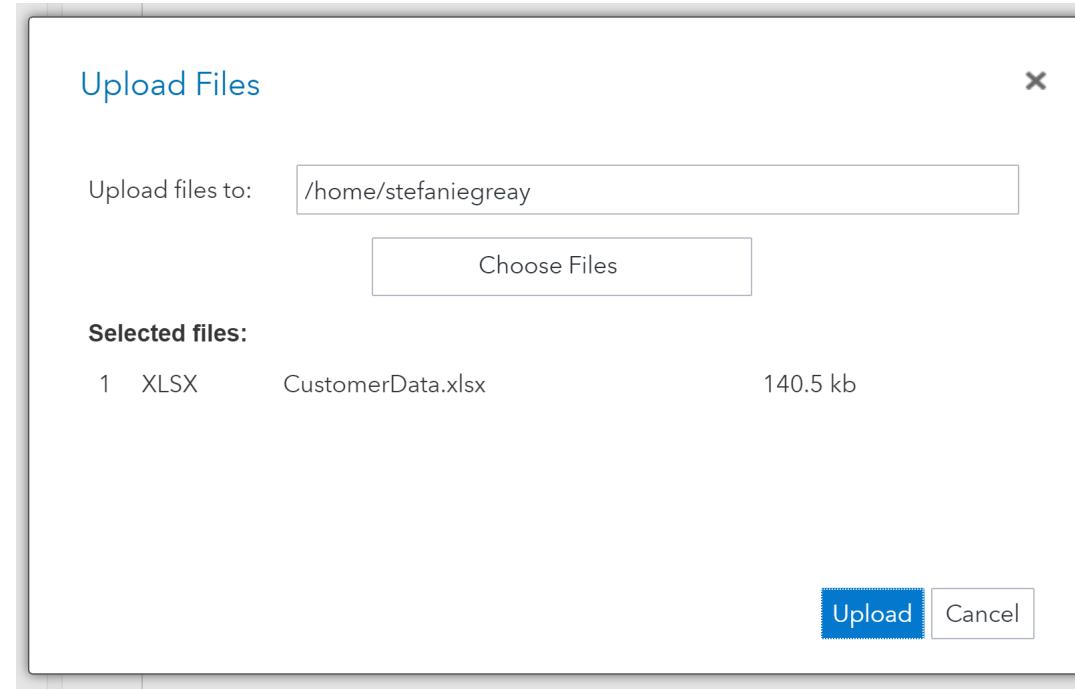
The screenshot shows the SAS Studio interface. On the left, the 'Server Files and Folders' sidebar is open, displaying a tree structure with 'odaws03-usw2' at the root, followed by 'Folder Shortcuts' and 'Files (Home)'. A tooltip 'Upload' is visible over the 'Upload' icon in the toolbar. The main workspace contains a 'Program 1' editor window with tabs for 'CODE', 'LOG', and 'RESULTS'. The 'CODE' tab is selected, showing a single line of code '1'. The 'LOG' and 'RESULTS' tabs are empty. The bottom right corner of the editor shows a green circular icon with a white letter 'G' and the text 'UTF-8'. The top navigation bar includes links for 'SAS Programmer', 'Sign Out', and other user-specific icons.



Click “Choose Files.”



Choose this week's data file and click “Upload.”



Click on SAS Enterprise Miner and then click “Keep”

The screenshot shows the SAS® OnDemand for Academics Dashboard. At the top right, there are links for "United States" and "Stefanie Reay". Below the header, there are tabs for "Planned Events" and "Notices". A navigation bar at the bottom includes "Applications", "Enrollments", and "Courses", with "Applications" being the active tab. The main content area displays several applications:

- SAS® Studio**: Write and run SAS code with a Web-based SAS development environment. Actions: [Clear my saved tabs](#).
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- SAS® Forecast Studio**: Generate large numbers of high-quality forecasts automatically. ([Configuration Steps Required](#)) Actions: [Manage your personal environment](#).
- JMP® Software access to SAS® hosted servers**: Statistical discovery software. Users must have a copy of JMP® software. ([Configuration Steps Required](#))

On the right side, there is a "Reference" section with links to "Support Site", "Step-by-Step Reference Guides", and "Frequently Asked Questions". Below that is a "Quotas" section showing usage statistics for Home Directory and Course Directory.

At the bottom left, a warning message says: "This type of file can harm your computer. Do you want to keep main (3).jnlp anyway?". It has "Keep" and "Discard" buttons. At the bottom right, there are "Show all" and "X" buttons, and a volume icon.

Click on “main.jnlp” to start validation and installation

The screenshot shows the SAS® OnDemand for Academics Dashboard. At the top, there are tabs for "Planned Events" and "Notices". Below that, a navigation bar has tabs for "Applications", "Enrollments", and "Courses", with "Applications" being the active tab. The main content area lists several SAS applications:

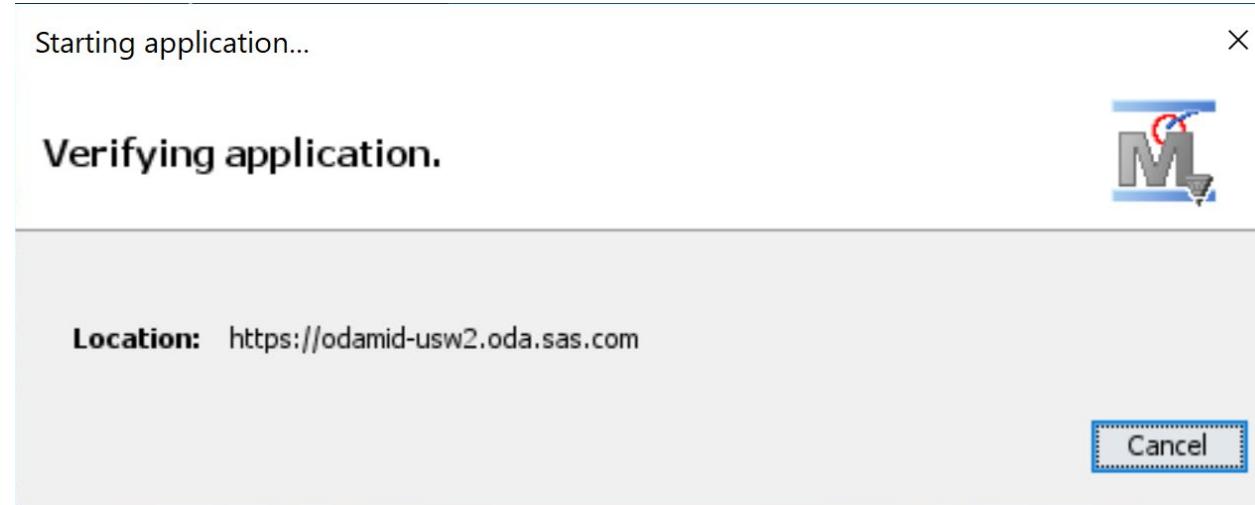
- SAS® Studio**: Write and run SAS code with a Web-based SAS development environment. Actions: [Clear my saved tabs.](#)
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- JMP® Software access to SAS® hosted servers**: Statistical discovery software. Users must have a copy of JMP® software. (Configuration Steps Required)

On the right side, there is a "Reference" section with links to the [Support Site](#), [Step-by-Step Reference Guides](#), and [Frequently Asked Questions](#). Below that, there are two quota status bars:

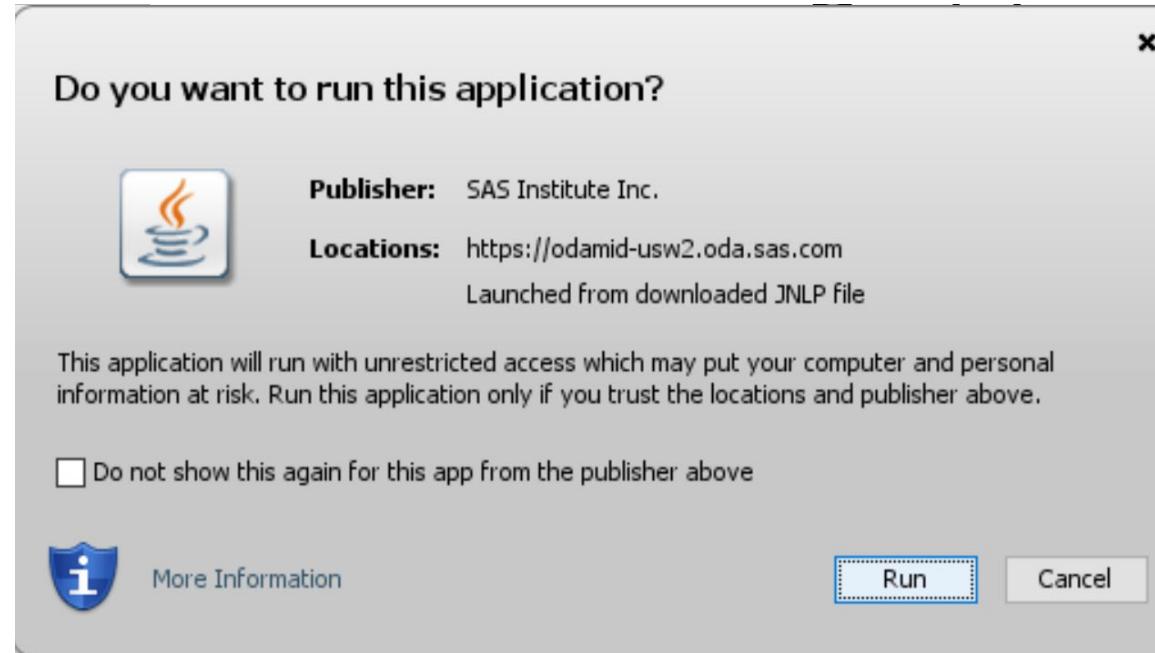
- Home Directory (46.5MB/5120MB) at 1%
- Course Directory (207.0MB/3072MB) at 7%

At the bottom, a window titled "main (3).jnlp" is shown, indicating the file being used for validation and installation.

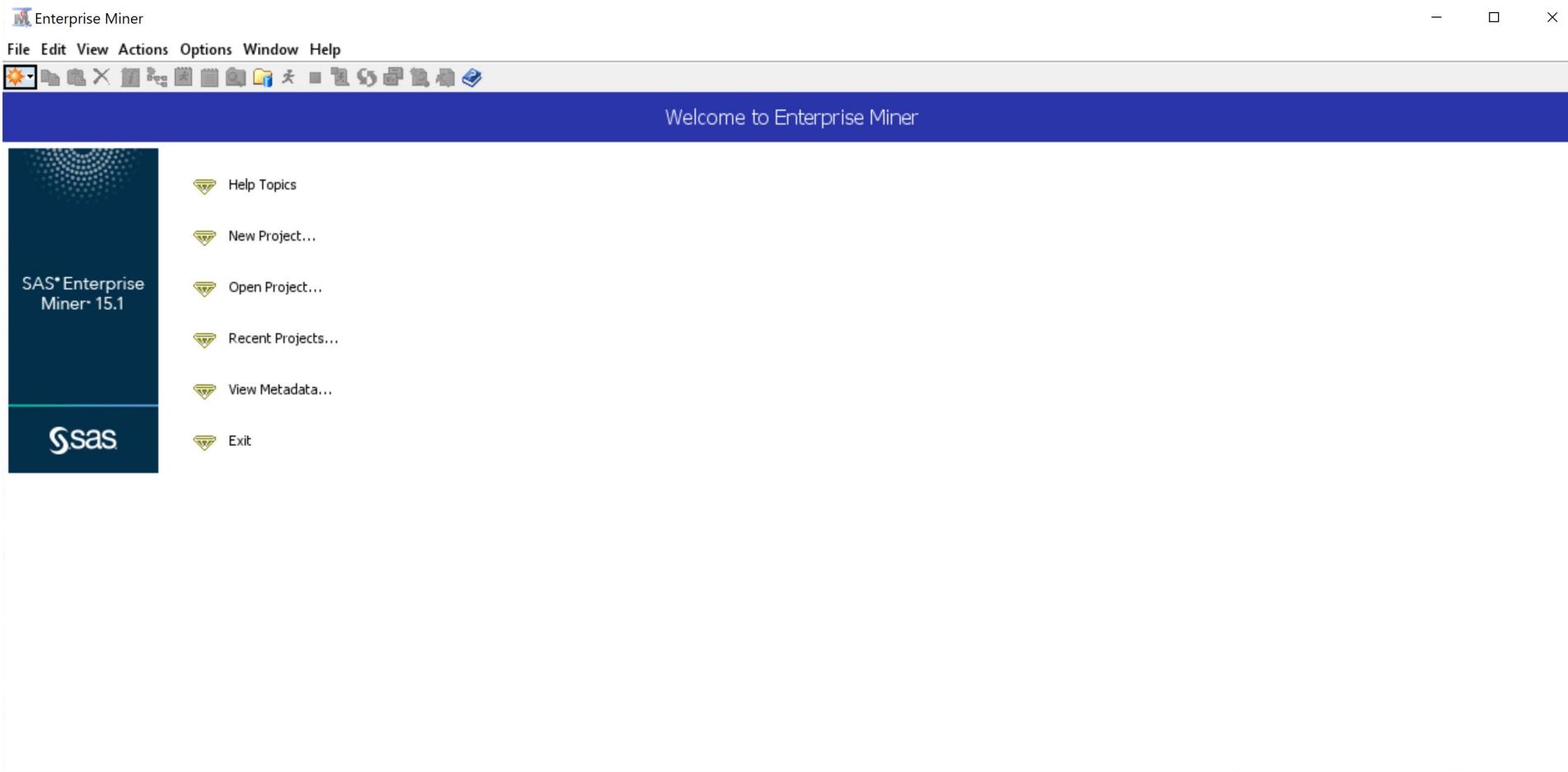
You will see a “Starting application...” window pop up.



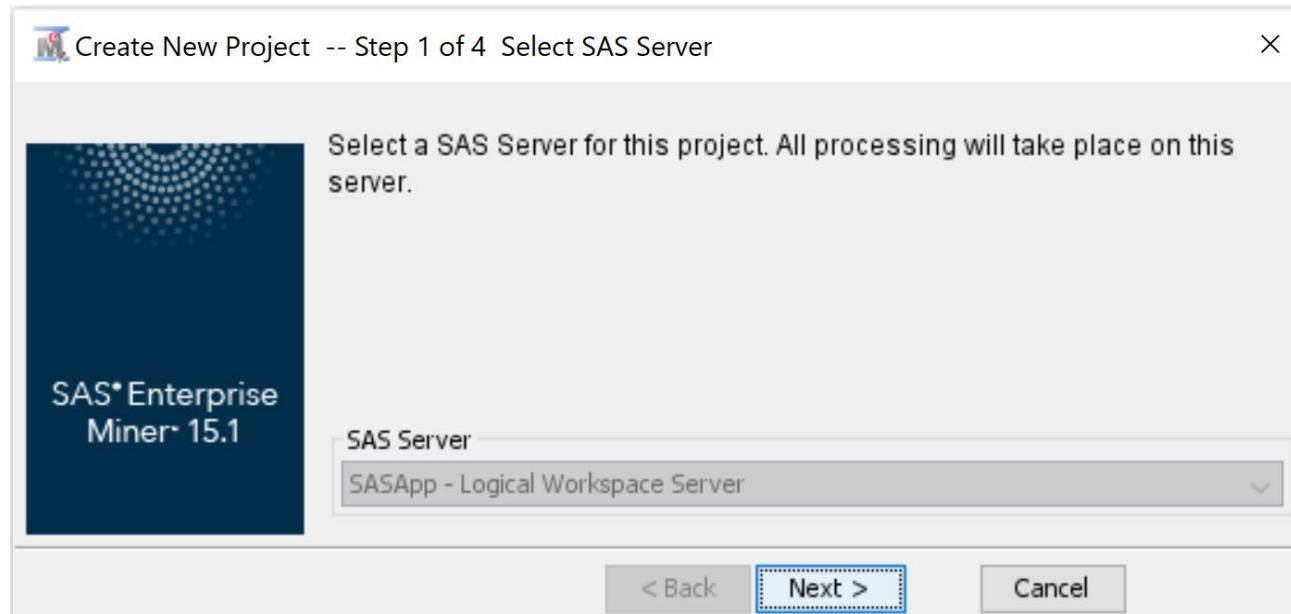
You will see a “Starting application...” window pop up. Click “Run.”



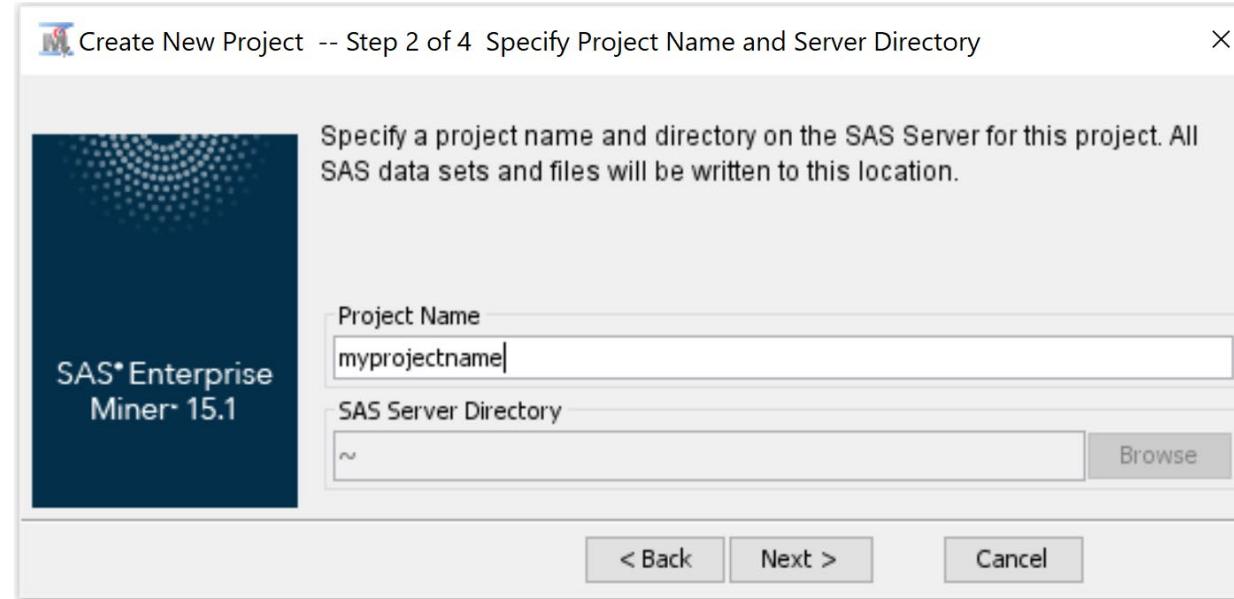
The Enterprise Miner Application will then pop up. Clicking on “New Project” will allow you to start a new project.



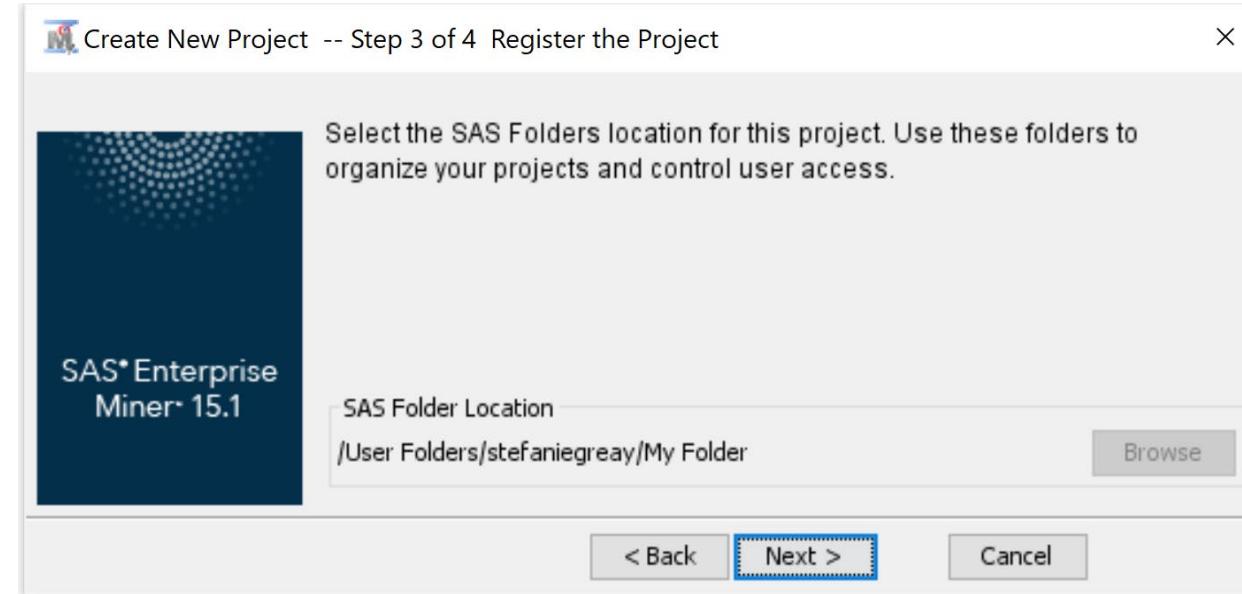
Click on “Next >” to continue setting up the project using the default SASApp server.



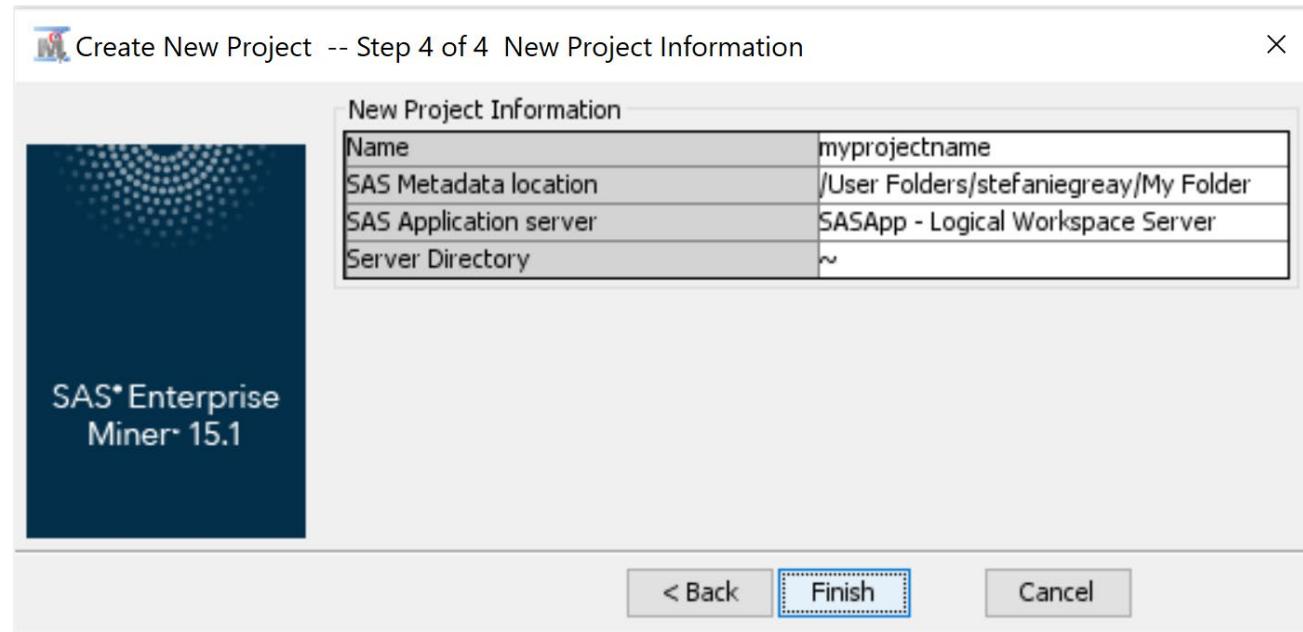
Enter a name for your project, then click “Next >.”



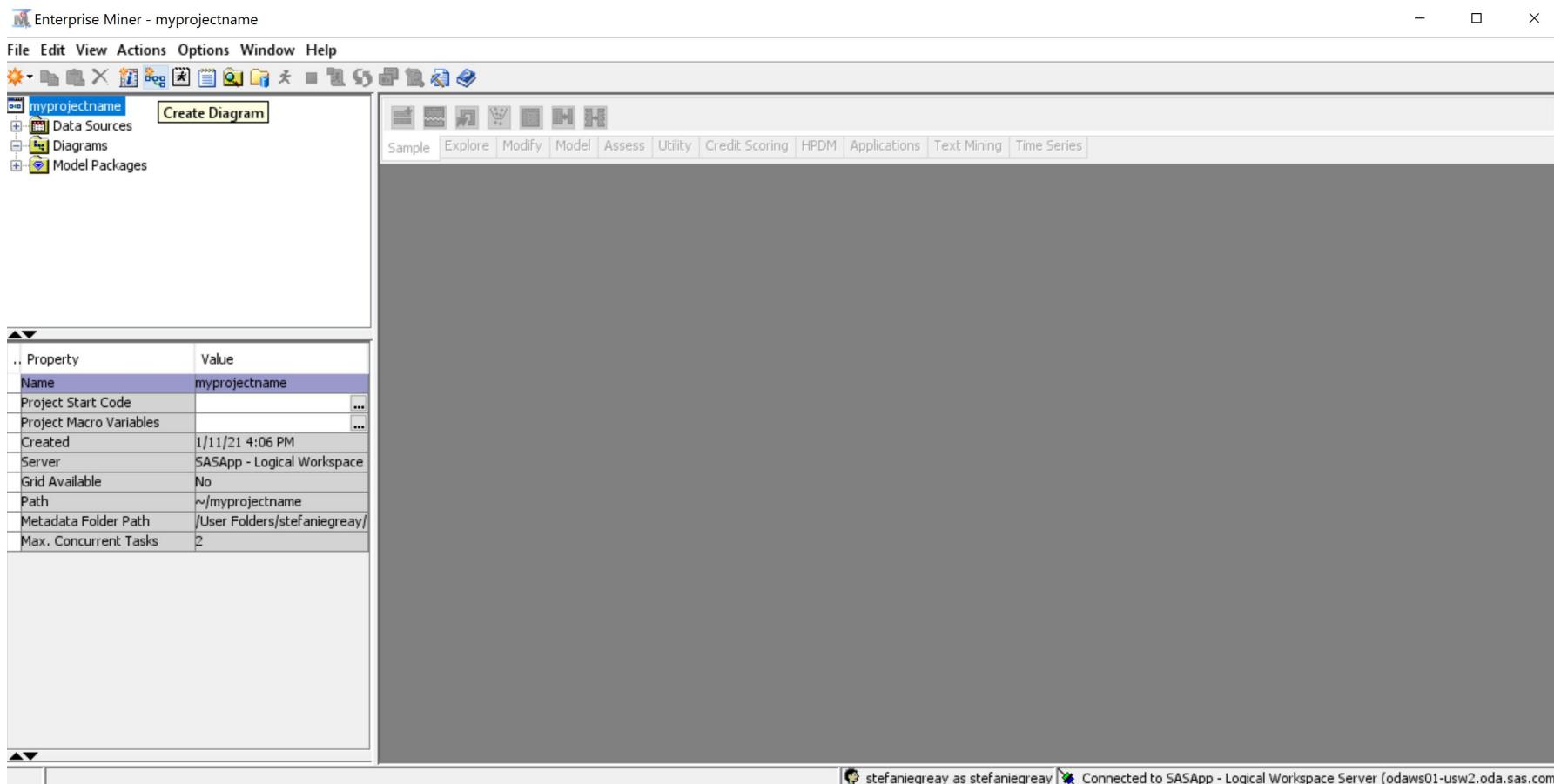
Click “Next >” to save the project in the default location.



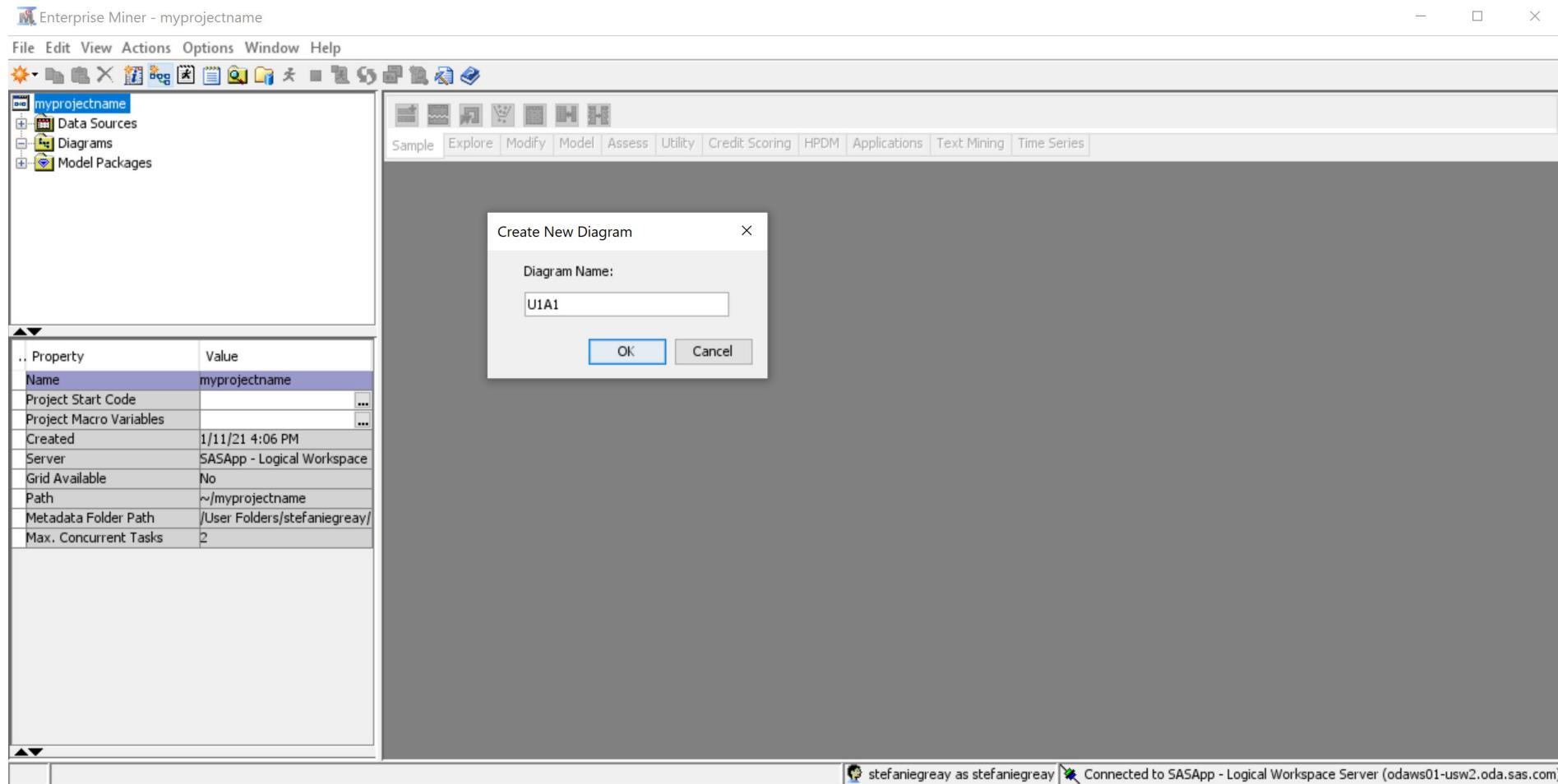
Click “Finish” to complete the SAS Enterprise Miner project setup.



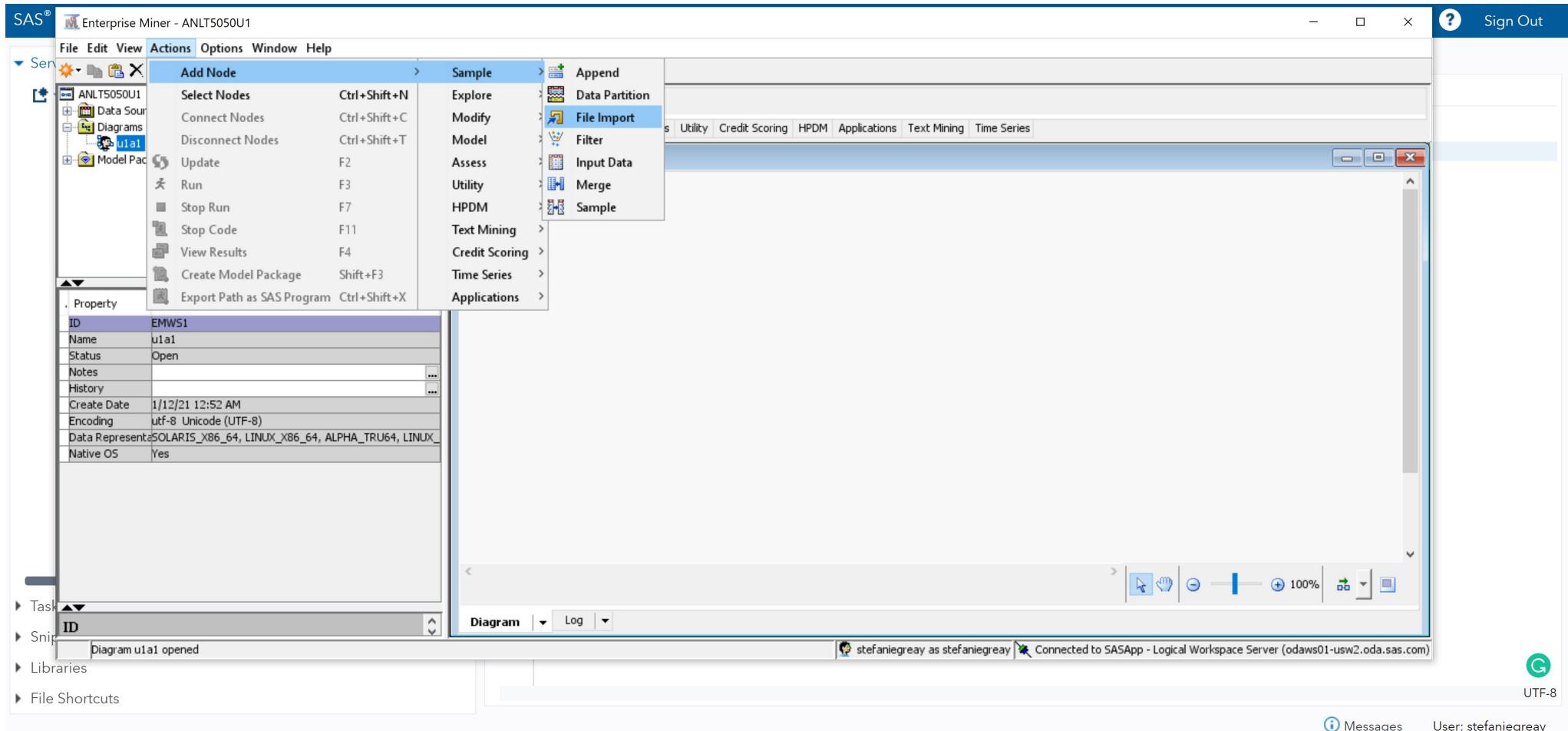
You can create a diagram using the icon directly to the left of the notebook with the running guy.



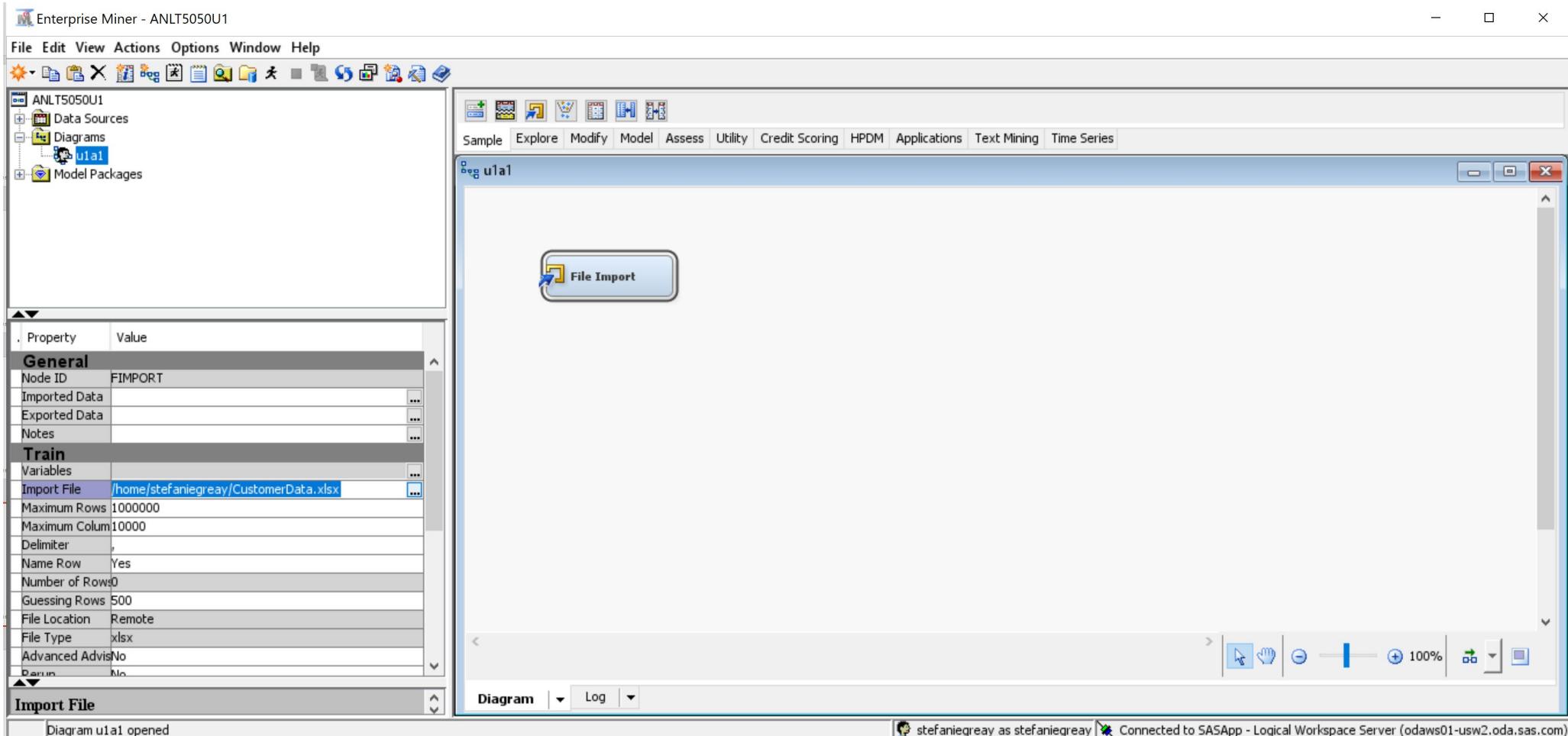
Name the diagram in the dialog box that pops up, then click “OK.”



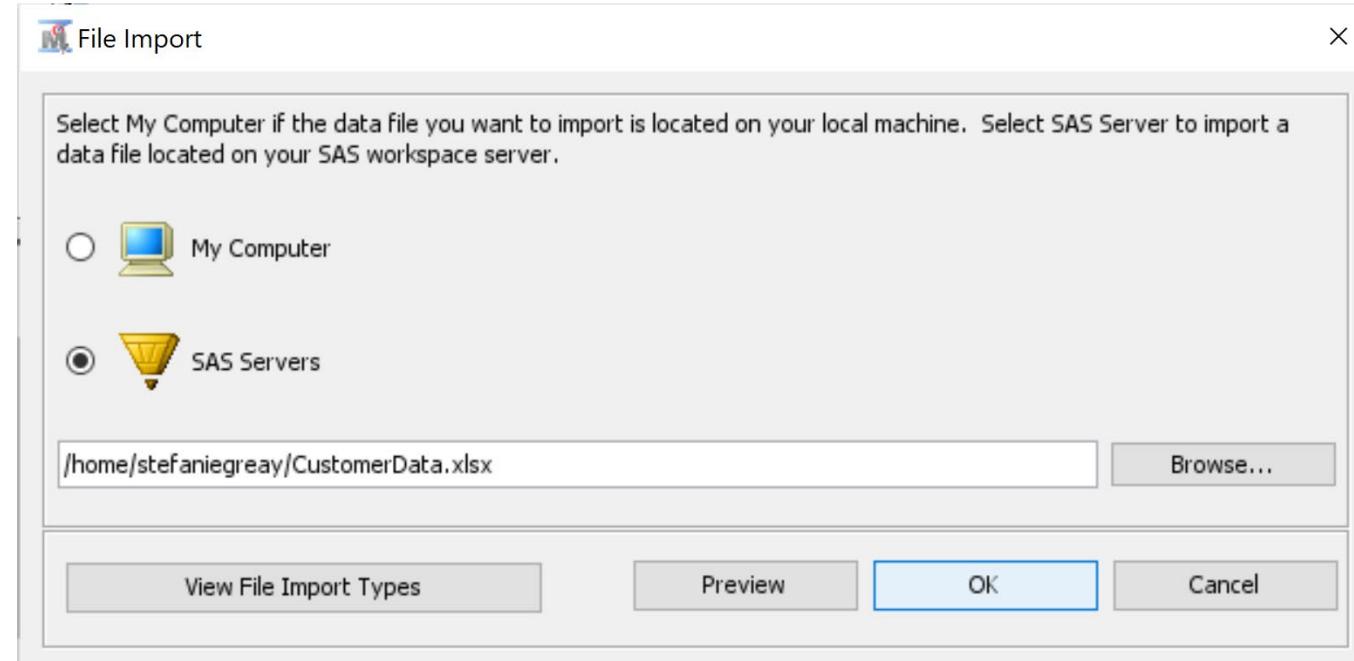
Click on “Action” > “Add Node” > “Sample” > “File Import”



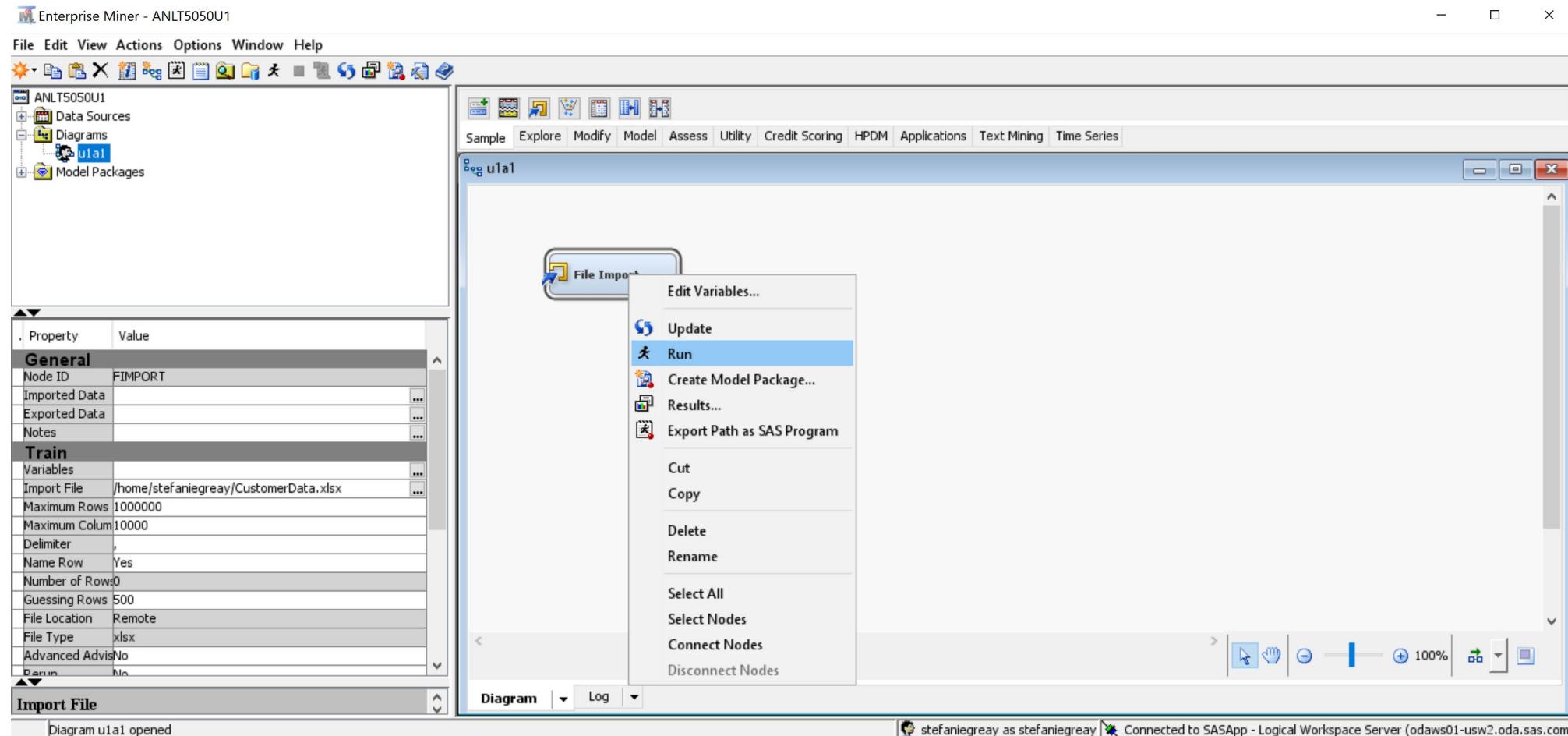
Click on the “File Import” node you just added, and click the 3 dots next to “Import File Directory.”



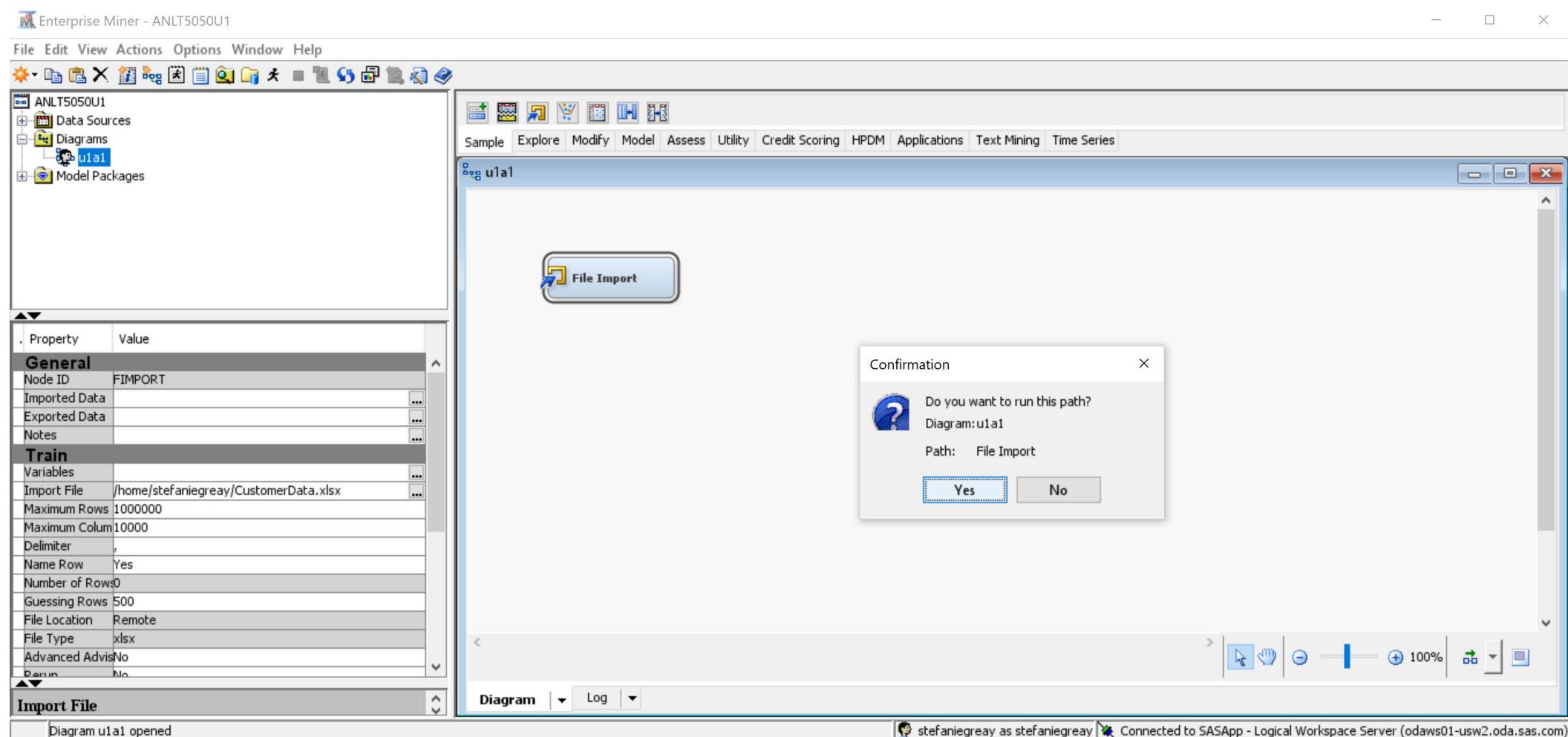
Click “Browse” to navigate to the file you just uploaded, then click “OK”



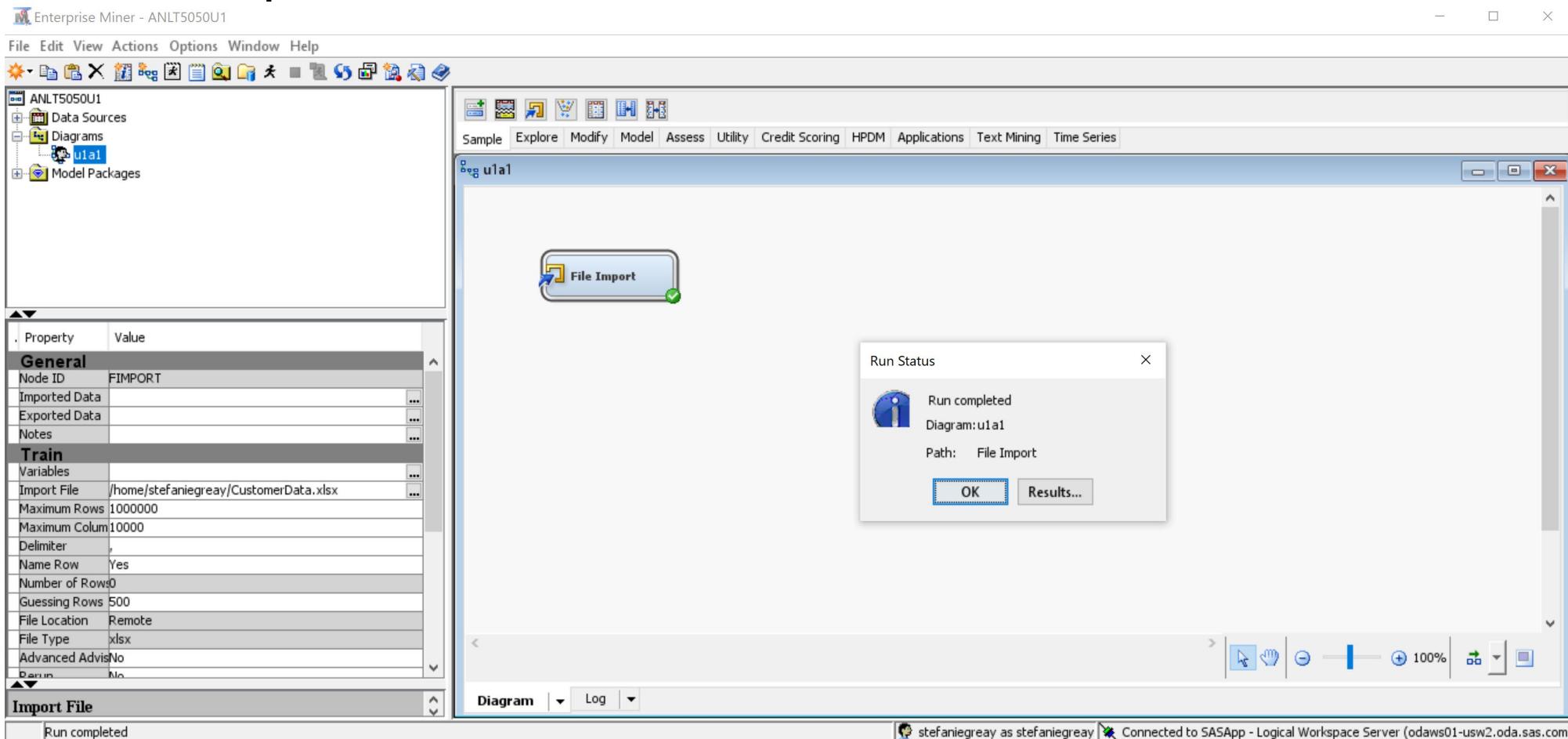
Right click the “File Import” node and click “Run”



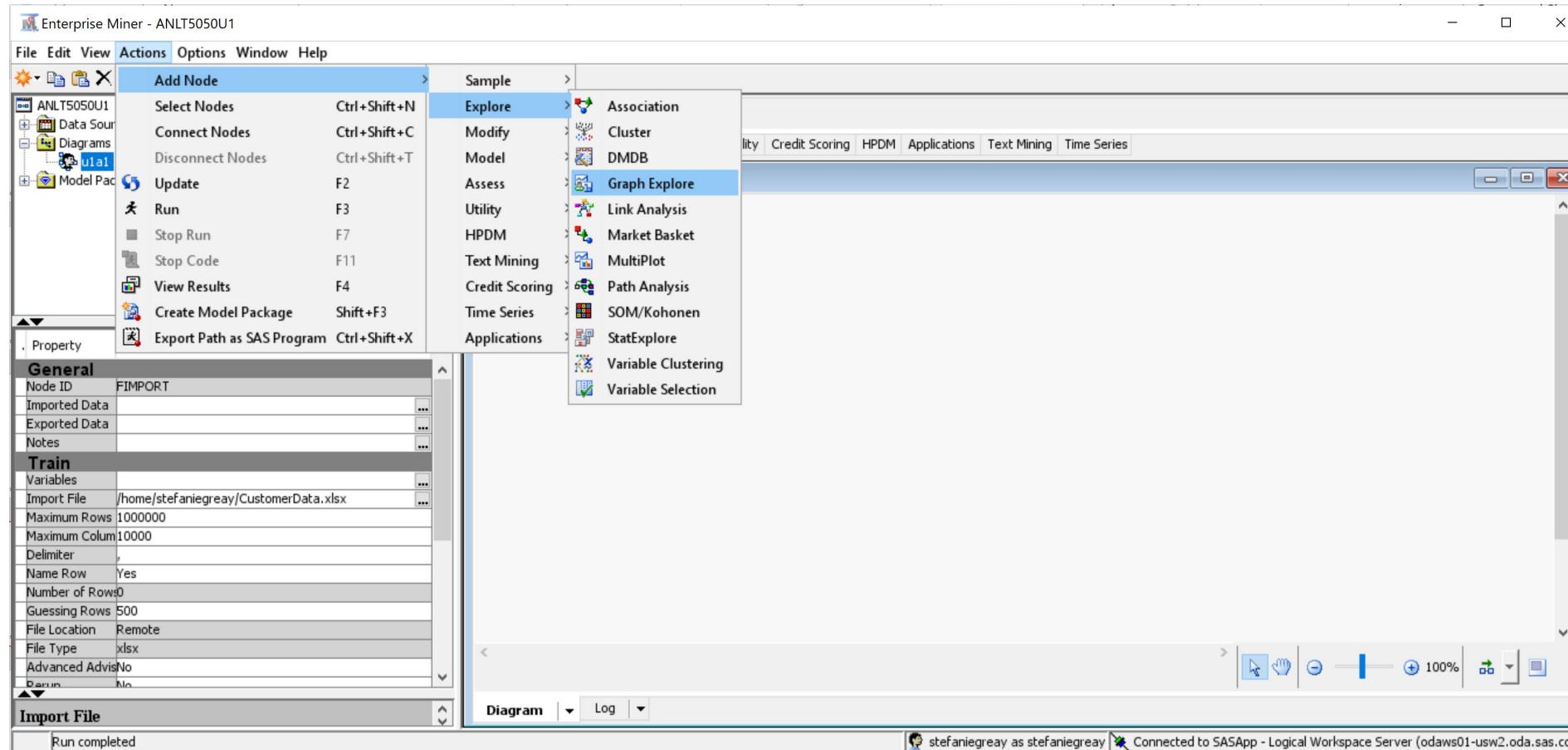
Click “Yes”



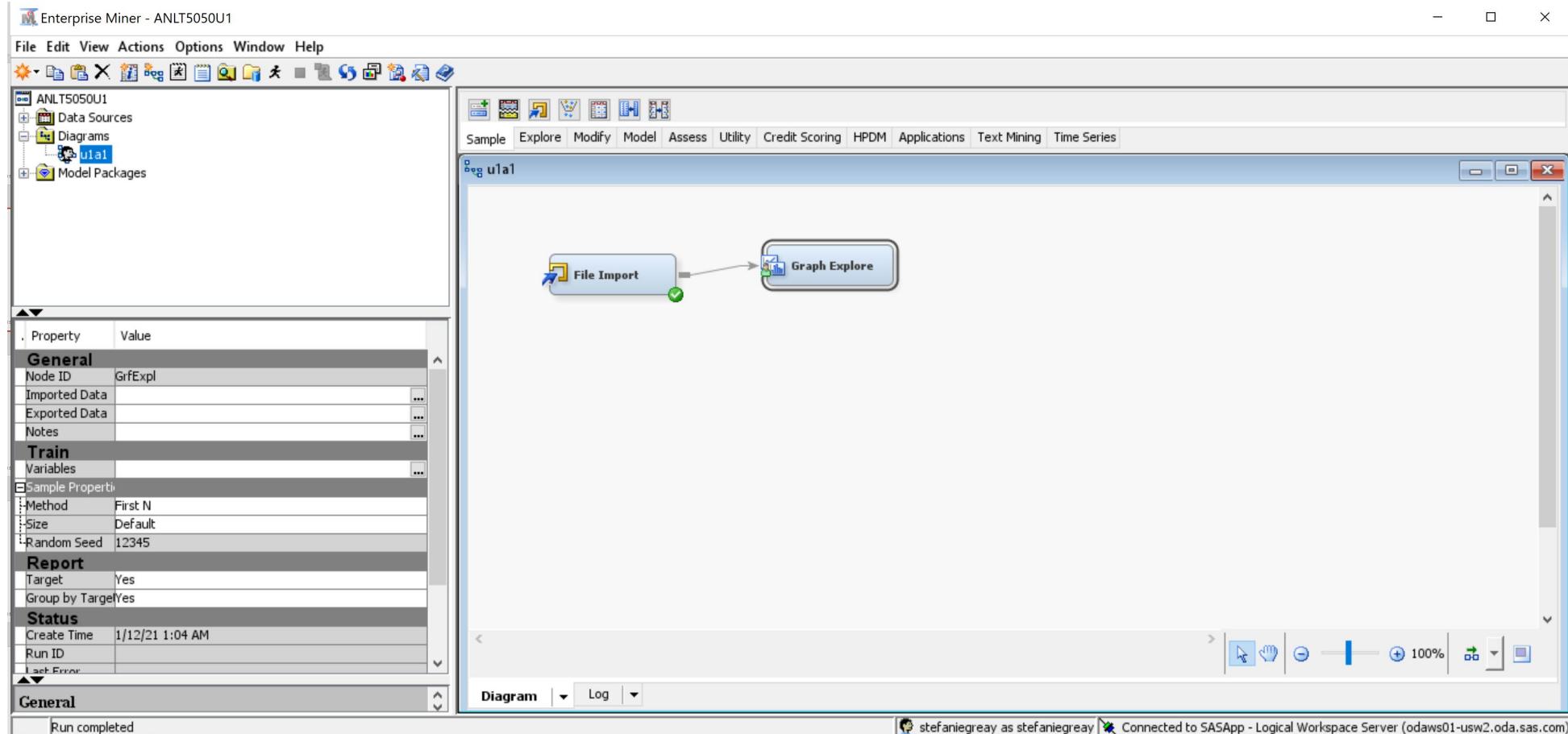
Once this is complete, a confirmation will appear and you can select “Results” to review the results of the import.



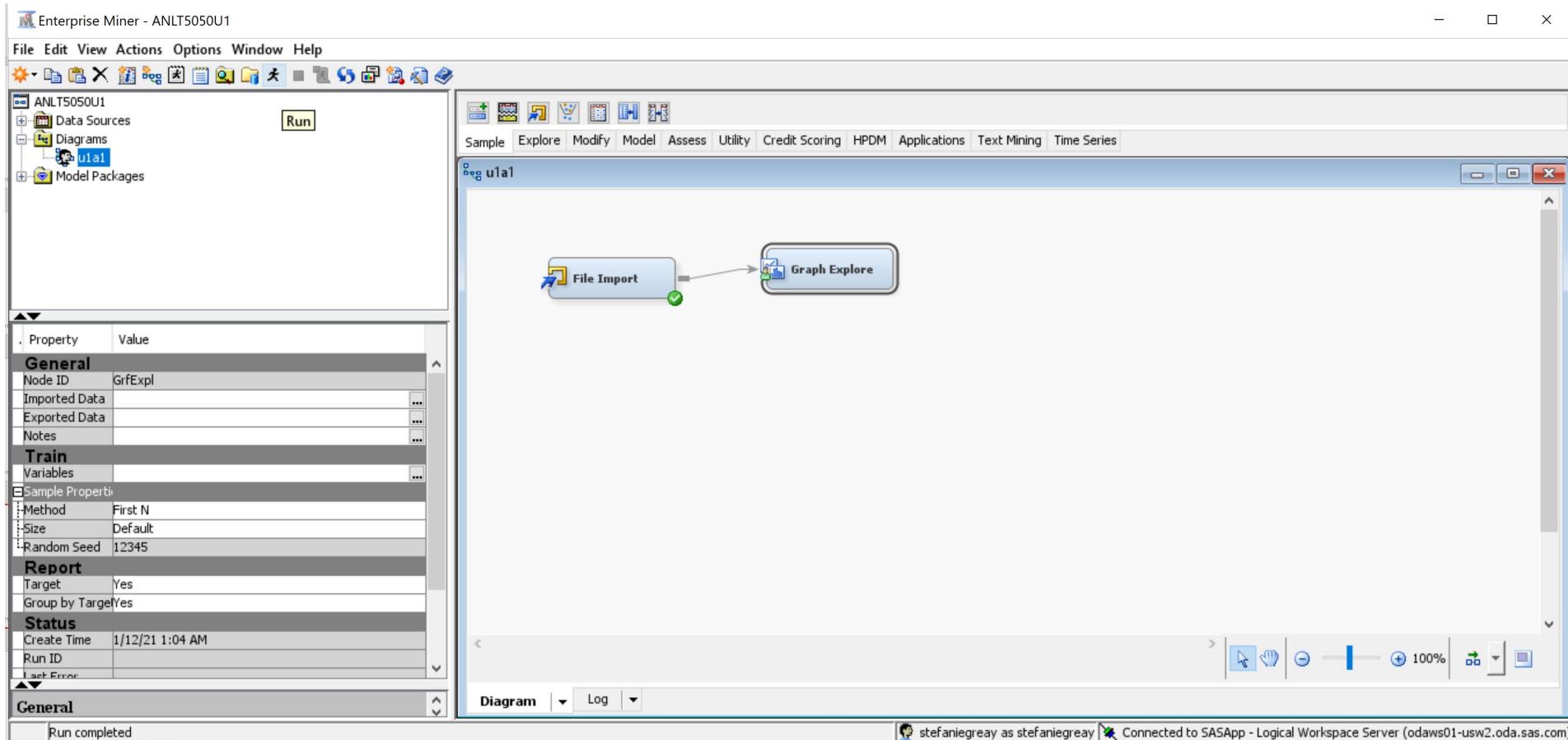
Click on “Actions” > “Add Node” > “Explore” > “Graph Explore” to run an Exploratory Data Analysis (EDA) on the data you just imported.



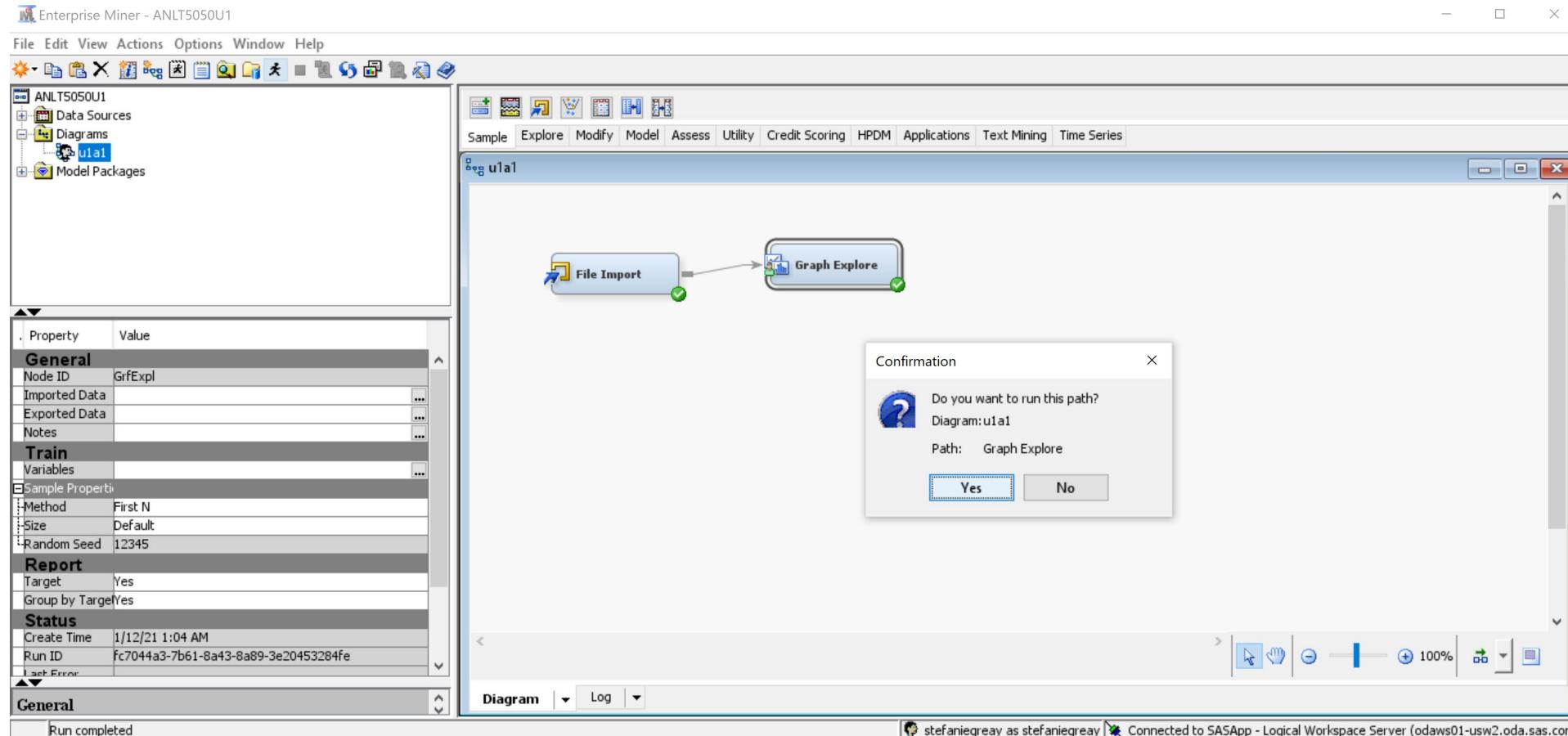
You can connect the “Graph Explore” node to the “File Import” node by hovering over the right side of the “File Import” node and dragging the arrow to the “Graph Explore” node.



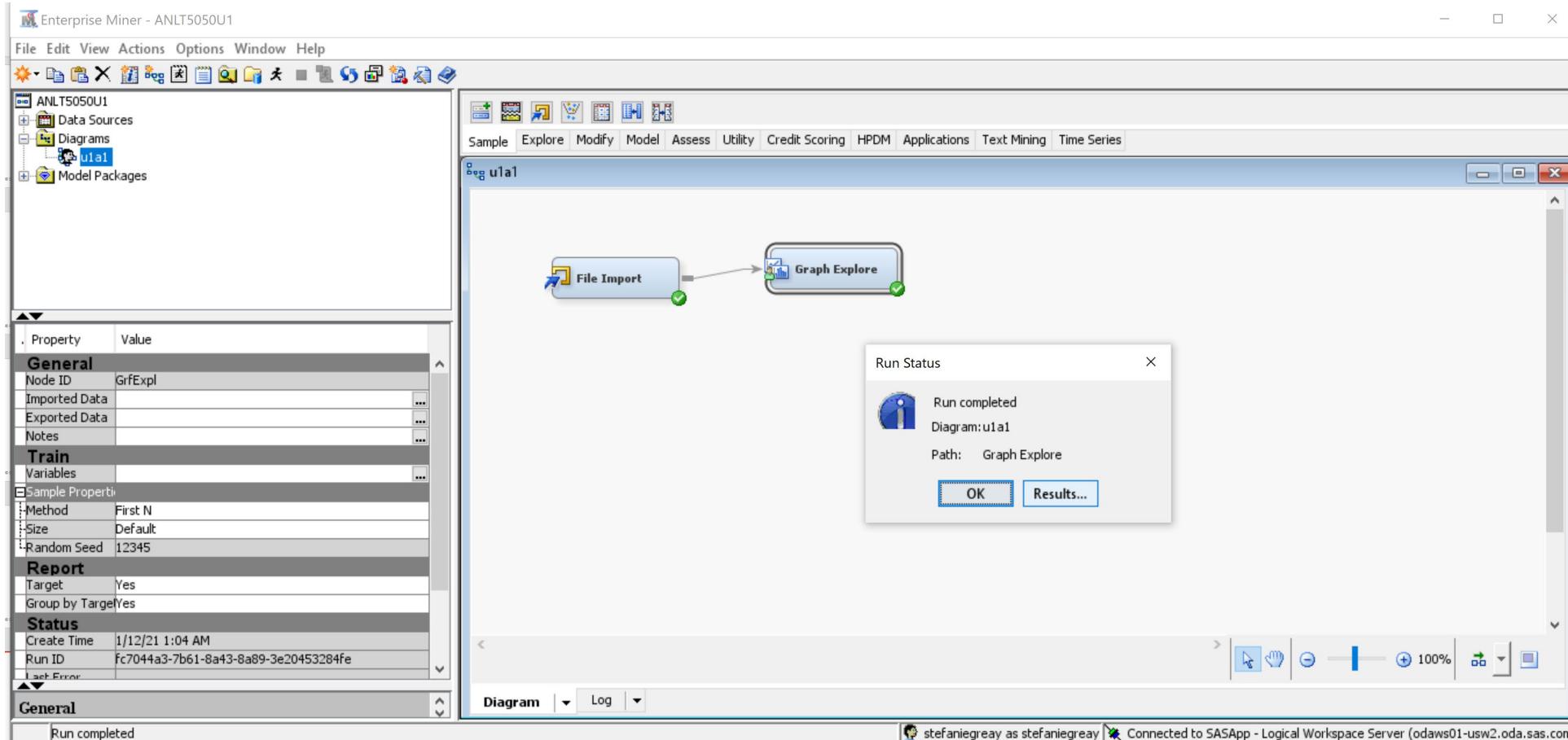
You can then run the full diagram by clicking the run guy at the top. When asked if you want to run this, click “Yes.”



When asked if you want to run this, click “Yes.”



Upon successful completion of the run, you will receive a confirmation and can view the results by clicking on “Results.”



You can create various graphs using the “Plot” option in the results window of the “Graph Explore” node.

The screenshot shows the KNIME interface with a "Results - Node: Graph Explore Diagram: u1a1" window open. The window has two main sections: "Sample Table" and "Output".

Sample Table: This section displays a data grid with 15 rows and 15 columns. The columns are labeled: customer, channel, cust_id, CITY, STATE, SEG, loc_employee, corp_rev, public_sector, us_region, rev_lastyr, rev_thisyr, tot_revenue, PURCHFST, and PURCHL. The data includes various customer details like city and state, sector information, and financial metrics over different years.

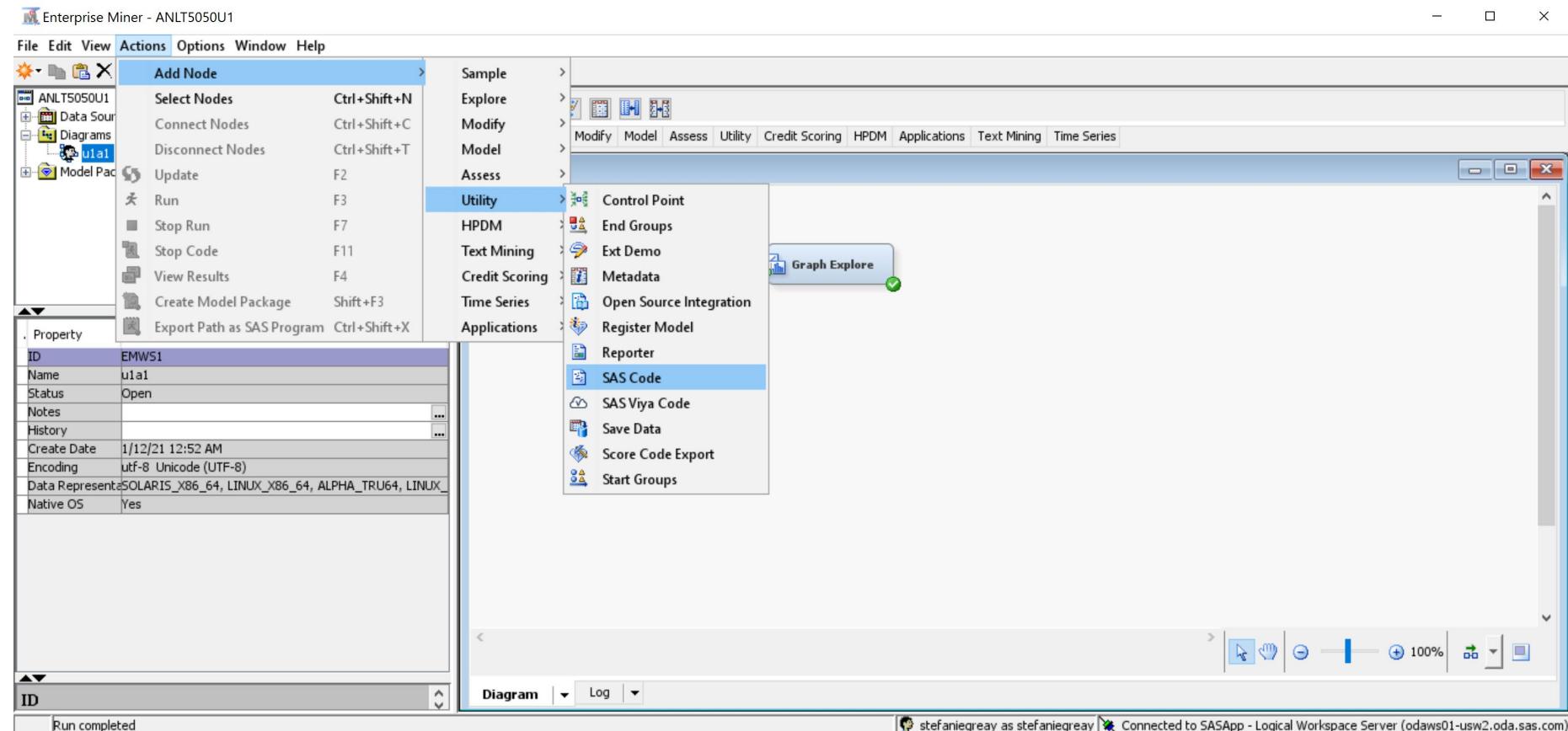
customer	channel	cust_id	CITY	STATE	SEG	loc_employee	corp_rev	public_sector	us_region	rev_lastyr	rev_thisyr	tot_revenue	PURCHFST	PURCHL
R		1000055897	SAN FRAN...	CA	BKG	65	\$63,000,0...	0Western	(\$1,892)	\$0	\$383,463	20112012		
R		3000671040	SEATTLE ...	WA	PSV	114	\$9,400,0...	0Western	\$0	\$0	\$11,954	20112012		
R		1001432830	CLAYTON ...	IN	RTL	2	\$120,000	0Great Lakes	\$0	\$0	\$2,258	20122012		
R		1002141021	CINCINNAT...	OH	PSV	50	\$23,952,2...	0Great Lakes	\$540	\$0	\$540	20132013		
R		1002714520	AUSTIN ...	TX	HCR	125	\$213,078...	0Central	\$1,750	\$0	\$1,750	20132013		
R		1003205010	JACKSONV...	FL	SLE	100	\$8,017,6...	0Southeast	\$0	\$0	\$8,101	20112011		
R		1004264859	FORT LAU ...	FL	PSV	8	\$510,000	0Southeast	\$799	\$1,074	\$4,592	20112014		
C		2005666060	ROCKY HIL...	CT	RTL	200	\$4238300...	0Northeast	\$0	\$0	\$1,477,4...	20052006		
R		2006350730	BOHEMIA ...	NY	SLE	98	\$2,300,0...	0Northeast	\$45	\$0	\$7,217	19982013		
R		1006687040	MILWAUKE...	WI	SLE	75	\$3,020,7...	1Great Lakes	\$0	\$0	\$10,640	20112011		
R		1008039570	ATLANTA ...	GA	BKG	46	\$3,100,0...	0Southeast	\$0	\$0	\$8,157	20112011		
P		1008117780	BRUNSWI ...	OH	SLE	7n	en	1Great Lakes	\$10,278	\$13,200	\$25,000	20122014		

Output: This section displays a text log of the analysis process. It includes the user (stefaniegreay), date (January 12, 2021), time (01:08:33), training output summary, and a variable summary table.

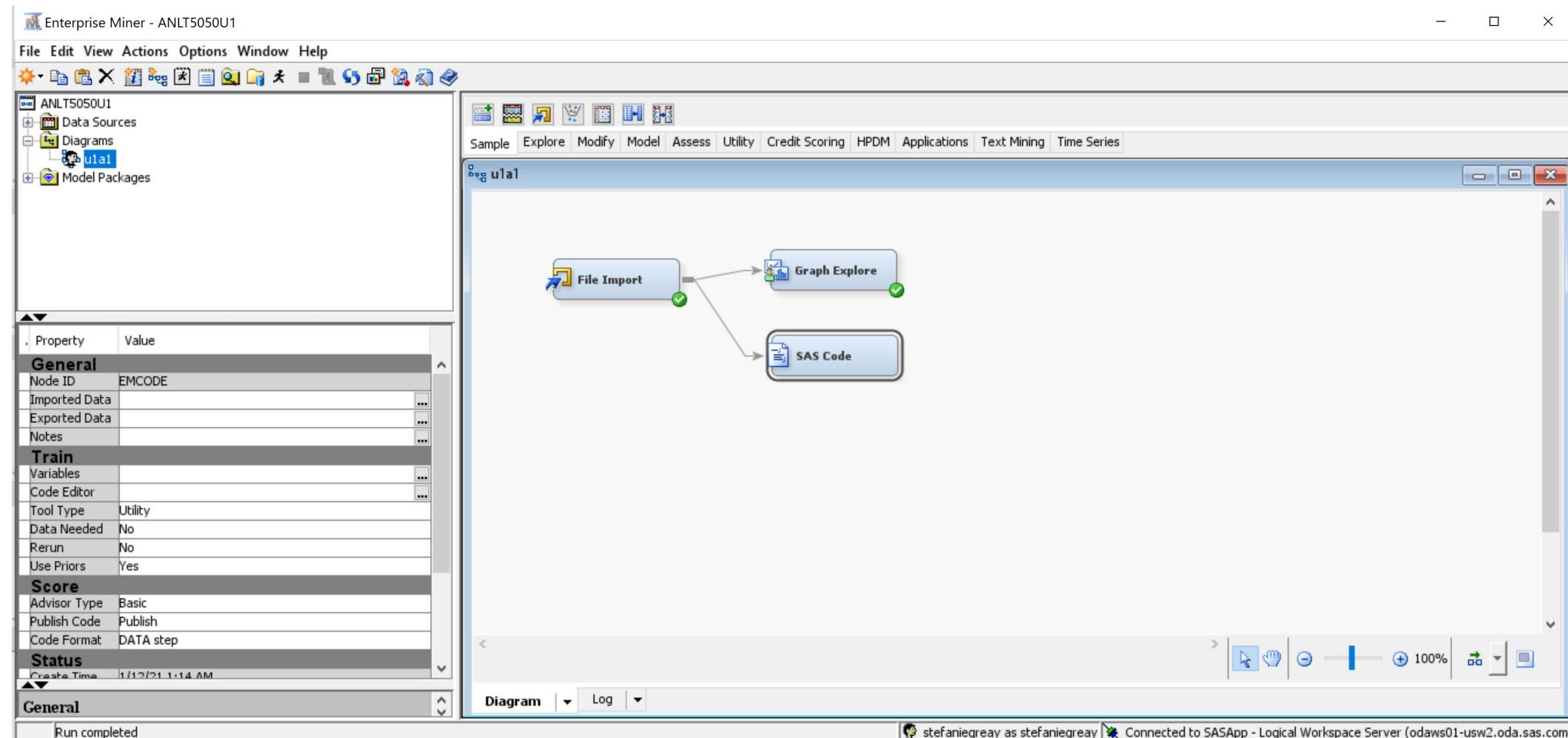
```
1 -----  
2 User: stefaniegreay  
3 Date: January 12, 2021  
4 Time: 01:08:33  
5 -----  
6 * Training Output  
7 -----  
8  
9  
10  
11  
12 Variable Summary  
13  
14 Measurement Frequency  
15 Role Level Count.
```



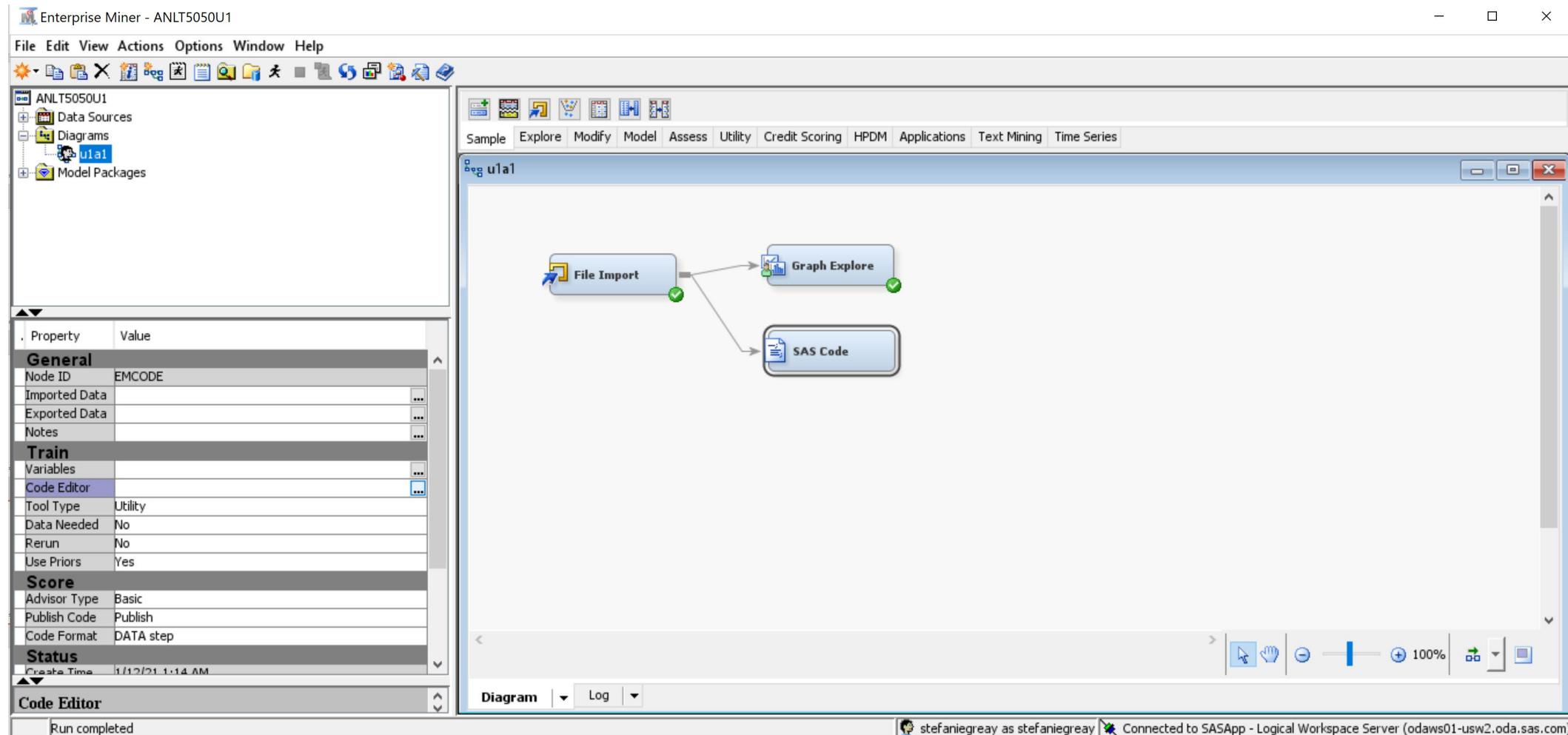
You can also run SAS code against the dataset that was just created through the import by adding a “SAS Code” node to your diagram using “Add Node” > “Utility” > “SAS Code”



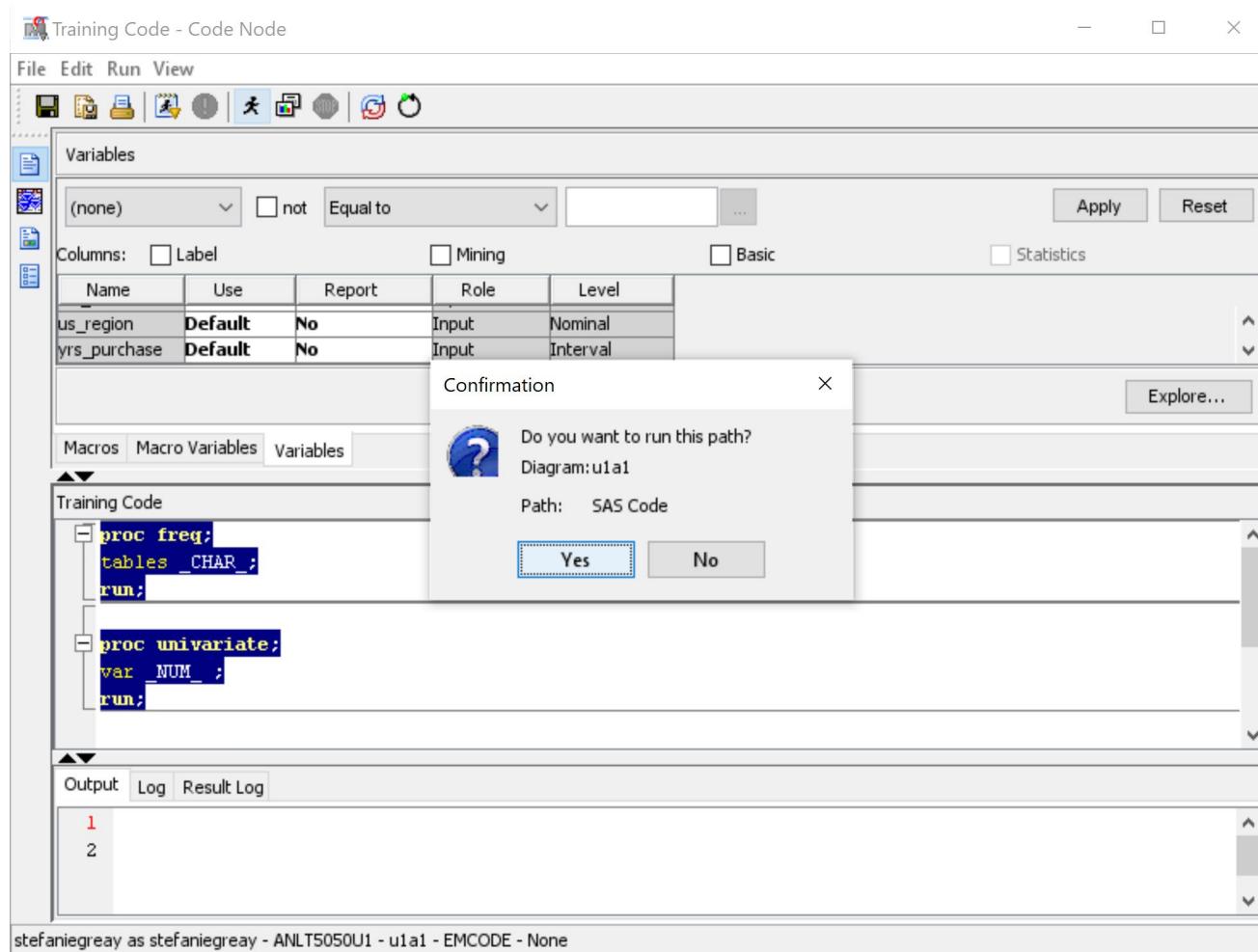
Be sure to connect that node to your “File Import” node.



Click on the 3 dots to the right of the “Code Editor” to create your SAS code that you want to run.



Click on the run guy to run the code, and click “Yes” to confirm.



Alternative for EDA

An alternative for the exploratory data analysis portion of the assignment is to run the exploratory data analysis tasks in SAS Studio or in SAS Enterprise Guide.

Since you uploaded the file in SAS Studio, any of these tools can access and import the file (using SAS code or using the graphical user interface of each tool).

