Start SAS Enterprise Miner with CLAIM_DATA_V2_TRAIN

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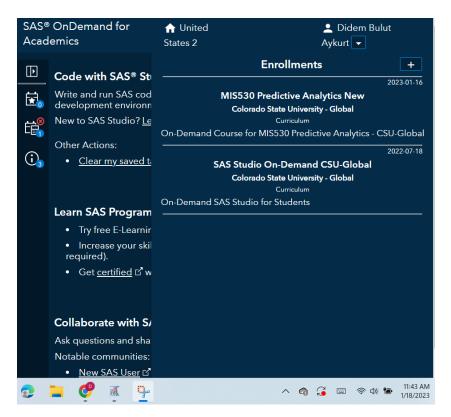
Colorado State University Global

MIS530; Predictive Analytics

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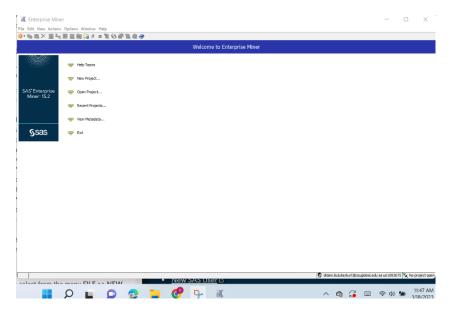
January 22, 2023

1-Course enrollment: I used the SAS OnDemand for Academic website to add a new course, left the site with the enrolment icon, and then clicked the plus icon to pop up the new tab to give system information.

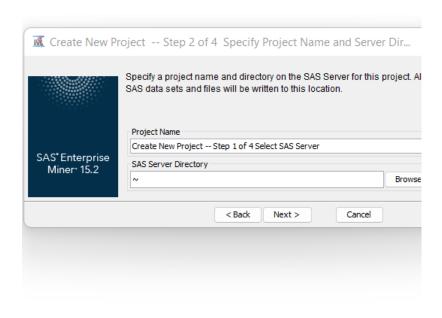


2-Running SAS Enterprise Miner: The left side of the SAS OnDemand for Academics page has a hammer icon that shows how to download and the URL to connect to SAS Enterprise Miner. This part was a little strange because when I gave an email and password to log on, it said, "Public access denied." How I solved this: I uninstalled the program, cleared data on Google's history page, and deleted all SAS links.

Then I opened the SAS OnDemand Academic page to do all the steps without any open page and web. I also didn't close the SAS Academic page; I got a URL link from that page and solved the problem.

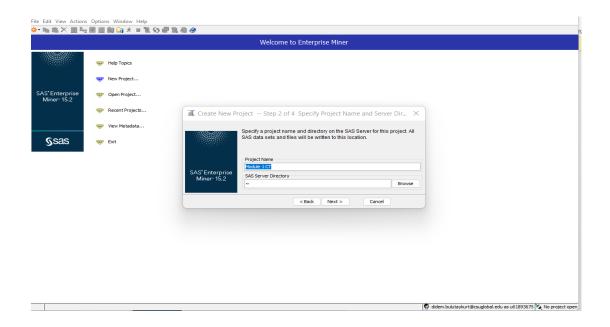


3- New project; click Create a new project on the list, named "Create New Project – Step 1 of 4 Select SAS Server".

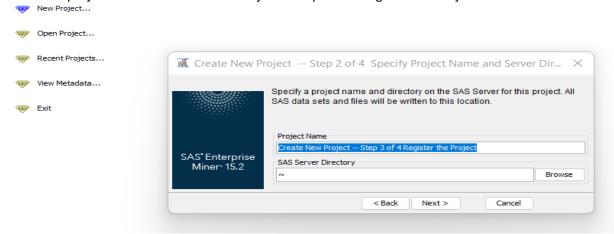




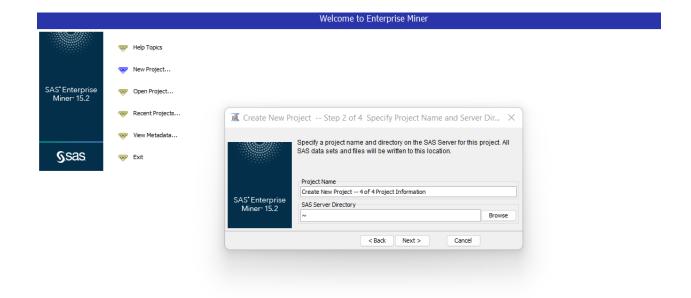
4- New project named "Module 1 CT. "



5- A new project named "Create New Project – Step 3 of 4 Register the Project."



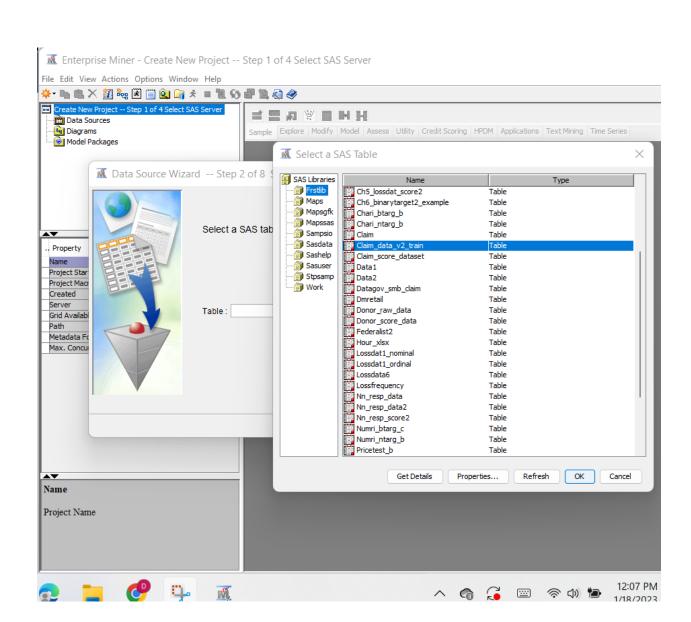
6- A new project named "Create New Project – Step 4 of 4 Project Information."

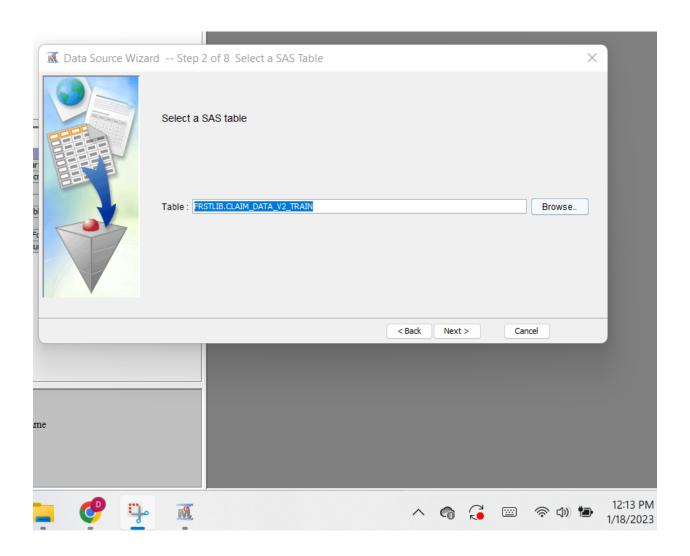


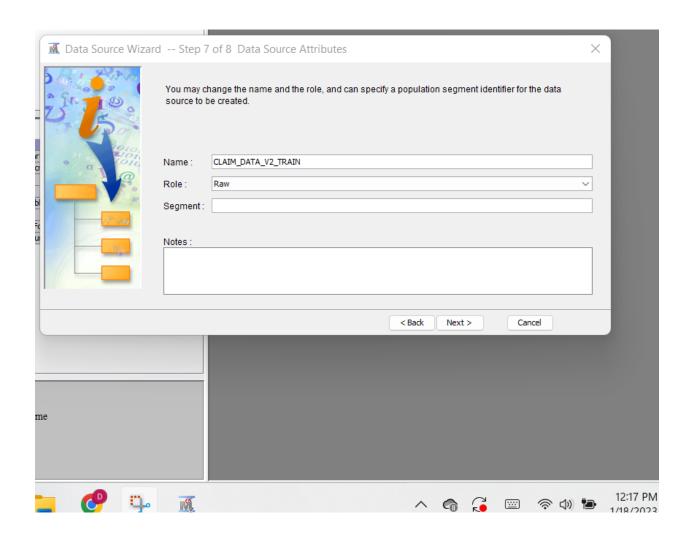
7- Created Diagram; right-click on Diagrams and name "MODULE 1". That opens a page to work on it with the dataset. Then, I created a Library named "FRSTLIB" and chose the table CLAIM_DATA_V2_TRAIN. Drag the data source from the project panel to the Diagram located in the workspace. Right-click on the data and run. Click the Sample tab, drag the Data Partition node onto the process flow, and then connect the Data Partition node to the CLAIM_DATA_TRAIN node. The sample data set is divided into 60% train, and 40% will be validation.

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Data Exploration is the data preparation process. One of the tabs is the StatExplore node, which allows descriptive statistics to summarize the raw data like sums, average, and percent changes and describe the past. Also, prepare the data for future use in prescriptive analytics.

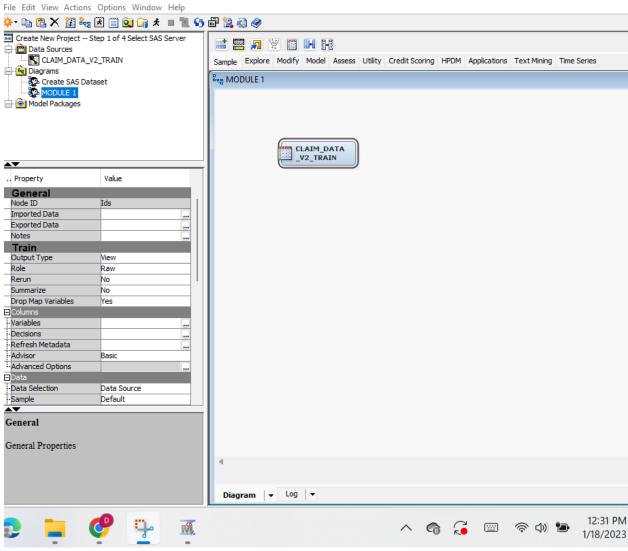






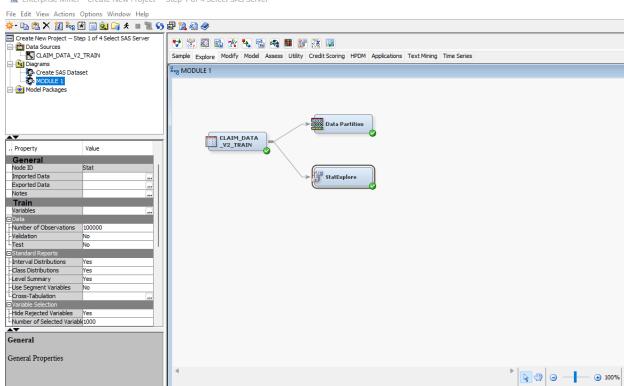
M Enterprise Miner - Create New Project -- Step 1 of 4 Select SAS Server





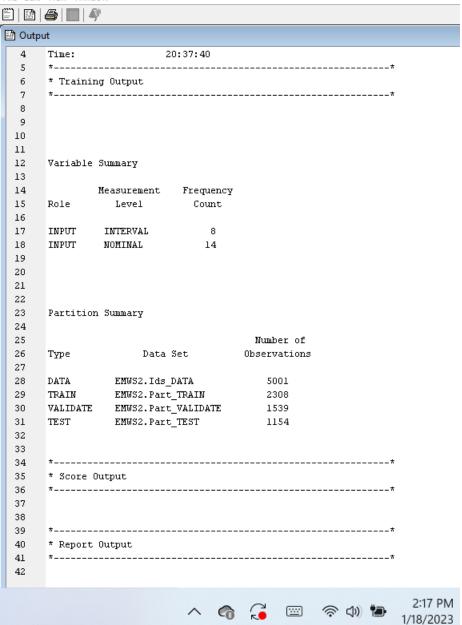
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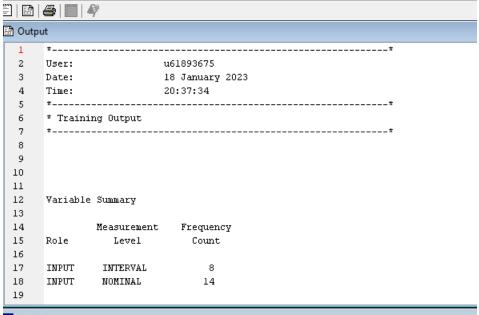
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File Edit View Window



Results - Node: CLAIM_DATA_V2_TRAIN Diagram: MODULE 1

File Edit View Window



Variables

Variable Name	Role	Measurement Level
Annual Premium	Input	Interval
Claim Amount	Input	Interval
Claim Cause	Input	Nominal
Claim Date	Input	Nominal
Claim Report Type	Input	Nominal
Claimant Number	Input	Interval
Education	Input	Nominal
Employment Status	Input	Nominal
Fraudulent Claim	Input	Nominal
Gender	Input	Nominal
ncome	Input	Interval
Location	Input	Nominal
Marital Status	Input	Nominal
Monthly Premium	Input	Interval
Months Since Last Claim	Input	Interval
Months Since Policy Incention	Innut	Interval



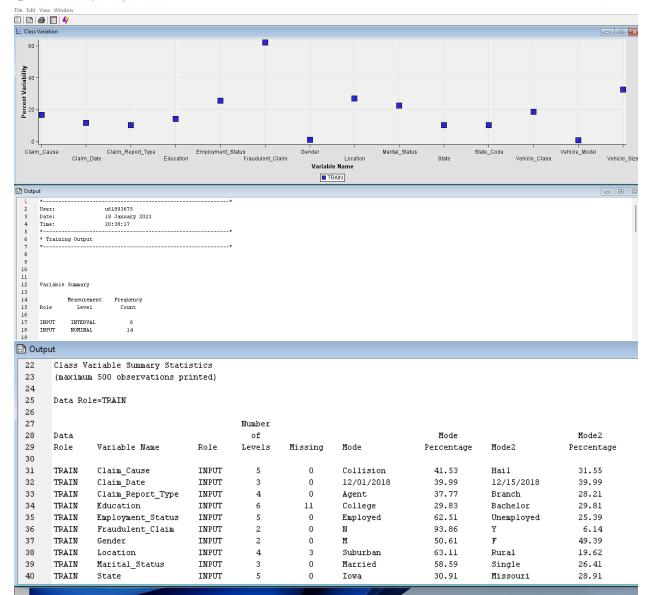








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Outp	ut										
49	(maximum 500 observations print	:ed)									
50											
51	Data Role=TRAIN										
52											
53				Standard	Non						
54	Variable	Role	Mean	Deviation	Missing	Missing	Minimum	Median	Maximum	Skewness	Kurtosis
55											
56	Annual_Premium	INPUT	1134.368	313.4503	5001	0	600	1140	1680	0.016055	-1.17369
57	Claim_Amount	INPUT	787.7633	655.9633	5001	0	189.8684	577.3521	7422.852	2.922369	12.62942
58	Claimant_Number	INPUT	3501	1443.809	5001	0	1001	3500	6001	0	-1.2
59	Income	INPUT	41310.45	227690.4	5001	0	0	34621	15967801	68.48667	4790.542
60	Monthly_Premium	INPUT	94.53069	26.12086	5001	0	50	95	140	0.016055	-1.17369
61	Months_Since_Last_Claim	INPUT	15.0042	11.13965	5001	0	0	13	60	0.666671	0.052198
62	Months_Since_Policy_Inception	INPUT	48.23495	28.09665	5001	0	0	48	99	0.051865	-1.14433
63	Outstanding_Balance	INPUT	23728.15	13827.4	4992	9	4	23988	47996	0.005256	-1.20029
64											
65											
66	*			*							
67	* Score Output										
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Reference

Richard V. McCarthy; Mary M. McCarthy; Wendy Ceccucci, 2022. *Applying Predictive Analytics Finding Value in Data*. Second edition.