

SAS Enterprise Miner

- Streamlines and supports the entire data mining process
- Easy to use GUI (Graphical User Interface)
- 92 of the top 100 companies on the 2018 Fortune 1000 use SAS
- SAS products are meant to create an enterprise analytics platform
 - Running SAS inside an open source environment
 - Running open source within SAS

Launching SAS EM on Lab Computer

- Steps: Start → All Programs → SAS → SAS Enterprise Miner Workstation
- Create a Project
- Create a Diagram
- Create a Data Source
- Create Process Flow by adding Nodes

Launching SAS EM on Your Computer

- Sign on the Control Center at <https://odamid.oda.sas.com>
- Click on SAS Enterprise Miner
- Run the downloaded file (e.g., “main.jnlp”)

- Create a Project
- Create a Diagram
- Create a Data Source
- Create Process Flow by adding Nodes

Menu Bar and Shortcut Buttons

The screenshot displays the Enterprise Miner - Demo application window. The title bar reads "Enterprise Miner - Demo". The menu bar includes "File", "Edit", "View", "Actions", "Options", "Window", and "Help". Below the menu bar is a toolbar with various icons. The left sidebar contains a tree view with "Data Sources", "Diagrams", "Readin_Data", and "Model Packages". Below this is a property table with sections for General, Train, and Report.

Property	Value
General	
Node ID	Part
Imported Data	...
Exported Data	...
Notes	...
Train	
Variables	...
Output Type	Data
Partitioning Method	Default
Random Seed	12345
Data Set Allocations	
Training	40.0
Validation	30.0
Test	30.0
Report	
Interval Targets	Yes

The main workspace shows a workflow diagram titled "Readin_Data". The workflow starts with a "File Import" node, which branches into "Graph Explore" and "StatExplore" nodes. The main path continues from "File Import" to "Data Partition", then "Transform Variables", "Drop", and finally "Regression". The bottom status bar shows "Diagram" and "Log" buttons, along with a zoom level of 100%.

Project Panel

Enterprise Miner - Demo

File Edit View Actions Options Window Help

Sample Explore Modify Model Assess Utility HPDM Applications Time Series

Readin_Data

Diagram Log

Property Value

Property	Value
General	
Node ID	Part
Imported Data	...
Exported Data	...
Notes	...
Train	
Variables	...
Output Type	Data
Partitioning Method	Default
Random Seed	12345
Data Set Allocations	
Training	40.0
Validation	30.0
Test	30.0
Report	
Interval Targets	Yes

General Properties

File Import

Graph Explore

Data Partition

Transform Variables

Drop

Regression

StatExplore

Properties Panel

Enterprise Miner - Demo

File Edit View Actions Options Window Help

Sample Explore Modify Model Assess Utility HPDM Applications Time Series

Readin_Data

Property Value

General	
Node ID	Part
Imported Data	
Exported Data	
Notes	

Train	
Variables	
Output Type	Data
Partitioning Method	Default
Random Seed	12345

Data Set Allocations	
Training	40.0
Validation	30.0
Test	30.0

Report	
Interval Targets	Yes

General

General Properties

File Import

Graph Explore

Data Partition

Transform Variables

Drop

Regression

StatExplore

Diagram Log

Property Help Panel

Enterprise Miner - Demo

File Edit View Actions Options Window Help

Sample Explore Modify Model Assess Utility HPDM Applications Time Series

Readin_Data

Property Value

Property	Value
General	
Node ID	Part
Imported Data	
Exported Data	
Notes	
Train	
Variables	
Output Type	Data
Partitioning Method	Default
Random Seed	12345
Data Set Allocations	
Training	40.0
Validation	30.0
Test	30.0
Report	
Interval Targets	Yes

General Properties

Diagram Log

```
graph LR; FI[File Import] --> GE[Graph Explore]; FI --> DP[Data Partition]; FI --> SE[StatExplore]; DP --> TV[Transform Variables]; TV --> Drop[Drop]; Drop --> Reg[Regression];
```

Diagram Workspace

Enterprise Miner - Demo

File Edit View Actions Options Window Help

Sample Explore Modify Model Assess Utility HPDM Applications Time Series

Demo

- Data Sources
- Diagrams
- Readin_Data
- Model Packages

Property	Value
General	
Node ID	Part
Imported Data	
Exported Data	
Notes	
Train	
Variables	
Output Type	Data
Partitioning Method	Default
Random Seed	12345
Data Set Allocations	
Training	40.0
Validation	30.0
Test	30.0
Report	
Interval Targets	Yes

General

General Properties

Readin_Data

```
graph LR; FI[File Import] --> GE[Graph Explore]; FI --> DP[Data Partition]; FI --> SE[StatExplore]; DP --> TV[Transform Variables]; TV --> D[Drop]; D --> R[Regression];
```

Diagram Log

Toolbar Palette

Enterprise Miner - Demo

File Edit View Actions Options Window Help

Sample Explore Modify Model Assess Utility HPDM Applications Time Series

Property Value

General	
Node ID	Part
Imported Data	
Exported Data	
Notes	

Train	
Variables	
Output Type	Data
Partitioning Method	Default
Random Seed	12345

Data Set Allocations	
Training	40.0
Validation	30.0
Test	30.0

Report	
Interval Targets	Yes

General Properties

Readin_Data

File Import

Graph Explore

Data Partition

StatExplore

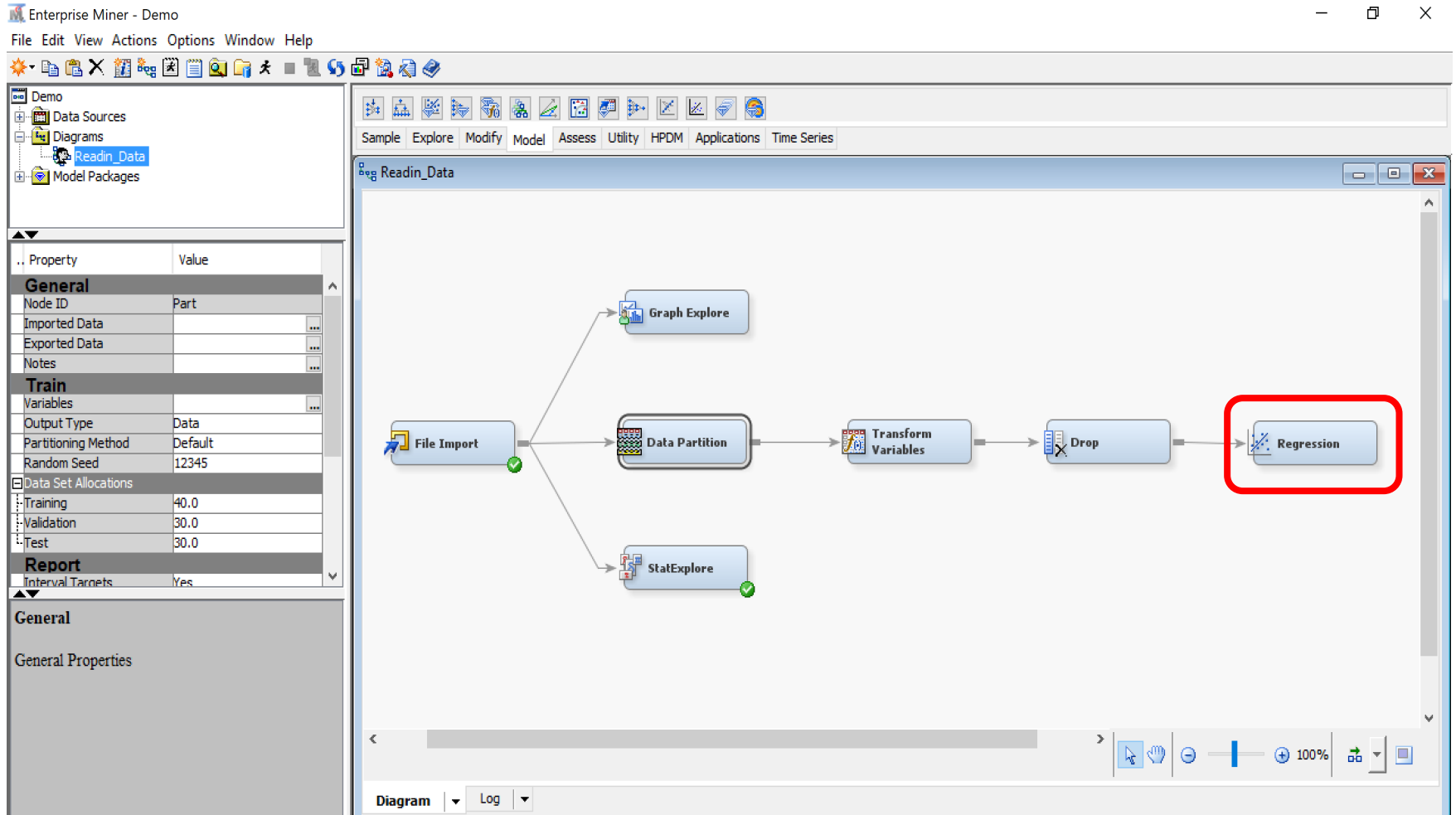
Transform Variables

Drop

Regression

Diagram Log

Node



Process Flow

