

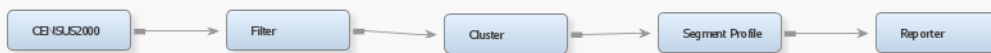
## SAS Enterprise Miner Report

User = u61965480  
Date = 17:21:51 26 March 2023  
Project = prac#3  
Diagram = myPrac3

Start Node = Report  
Node label = Reporter  
Nodes = PATH  
Showall = N

Format = PDF  
Style = LISTING

### SAS Enterprise Miner Report Process Flow Diagram



## SAS Enterprise Miner Report

### Node=CENSUS2000 Summary

Node id = Ids  
Node label = CENSUS2000  
Meta path = Ids  
Notes =

### Node=CENSUS2000 Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DataSource		DsCreatedBy	u61965480		NBytes	.	
ApplyIntervalLevelLowerLimit	Y		DsId	census		NCols	7	.
ApplyMaxClassLevels	Y		DsModifiedBy	u61965480		NObs	33178	.
ApplyMaxPercentMissing	Y		DsModifyDate	1995461312.3		NewTable		
CMeta	WORK.M1ZS1LQA		DsSampleName			NewVariableRole	REJECT	
ComputeStatistics	N		DsSampleSize			OutputType	VIEW	
DBPassThrough	Y		DsSampleSizeType			Role	RAW	TRAIN
Data	AAEM.CENSUS2000		DsScope	LOCAL		Sample	D	
DataSelection	DATASOURCE		IdentifyEmptyColumns	Y		SampleSizeObs	10000	
DataSource	census		IntervalLowerLimit	20		SampleSizePercent	20	
DataSourceRole	RAW		Library	AAEM		SampleSizeType	PERCENT	
Description			MaxClassLevels	20		Scope	LOCAL	
DropMapVariables	Y		MaxPercentMissing	50		Segment		
DsCreateDate	1995461312.3		MetaAdvisor	BASIC		Table	CENSUS2000	

### Node=CENSUS2000 Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	CENSUS2000	Date Created	02 April 2012 18:02:35	Data Size	.
Data Type	DATA	Date Modified	02 April 2012 18:02:35	Role	RAW
Data Label		Number Rows	33178	Segment	
Engine	BASE	Number Columns	7	Data Library	AAEM

### Node=CENSUS2000 Variables List

Name	Label	Role	Level	Type	Length	Format	Creator
ID	Region ID	ID	NOMINAL	C	5		
LocX	Region Longitude	INPUT	INTERVAL	N	8	BEST9.2	
LocY	Region Latitude	INPUT	INTERVAL	N	8	BEST9.2	
MeanHHSz	Average Household Size	INPUT	INTERVAL	N	8	COMMA9.2	
MedHHInc	Median Household Income	INPUT	INTERVAL	N	8	DOLLAR9.0	
RegDens	Region Density Percentile	INPUT	INTERVAL	N	8	BEST9.0	
RegPop	Region Population	INPUT	INTERVAL	N	8	COMMA9.0	

SAS Enterprise Miner Report

Node=Filter  
Summary

Node id = Filter  
Node label = Filter  
Meta path = Ids => Filter  
Notes =

Node=Filter  
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Filter		KeepMissingInterval	Y		PercentsCutoff	0.5	
ClassFilterMethod	MINPCT		MADSCutoff	9		PublishScoreCode	Y	
CreateDistributionData	Y	N	MaxValues	25		SpacingsCutoff	9	
ExportTable	FILTERED		MinFreq	1		StddevCutoff	3	
IntervalFilterMethod	MANUAL	STDDEV	MinPercent	0.01		TabletoFilter	TRAIN	
KeepMissingClass	Y		NormalizeClassValue	Y		UpdateClassLevel	N	

Node=Filter  
Variable Summary

Role	Level	Frequency Count	Name
INPUT	INTERVAL	6	LocX LocY MeanHHSz MedHHInc RegDens RegPop

Node=Filter  
Limits for Interval Variables

Variable	Role	Minimum	Maximum	Filter Method	Keep Missing Values	Label
MeanHHSz	INPUT	0.1	.	MANUAL	Y	Average Household Size

## SAS Enterprise Miner Report

### Node=Cluster Summary

Node id = Clus  
Node label = Cluster  
Meta path = Ids => Filter => Clus  
Notes =

### Node=Cluster Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Cluster		FinalMaxNum	20		MissingNominal	DEFAULT	
AutomaticMaxNum	50		HideVariable	Y		MissingOrdinal	DEFAULT	
AutomaticMethod	WARD		ImputationMethod	NONE		NominalEncoding	GLM	
AutomaticMinNum	2		Initial	DEFAULT		NumberClusterMethod	USER	AUTOMATIC
Bins	100		Learn	.		OrdinalEncoding	RANK	
CCCCutOff	3		LearnFinal	0.02		Radius	0	
ClusterGraphs	Y		LearnInitial	0.5		Stdize	STD	
Clusvar	_SEGMENT_		LearnSteps	1000		Summary	N	
ClusvarLabel	Segment Variable		MaxC	10		TrainDefaults	Y	
ClusvarRole	SEGMENT		MaxIter	10		TreeProfile	Y	
DistancePlot	Y		MaxSteps	1200		XConv	0.0001	
Drift	N		MissingInterval	DEFAULT				

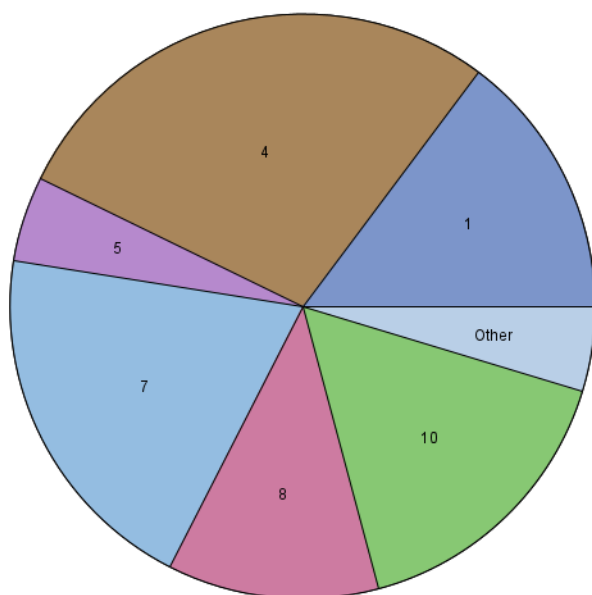
### Node=Cluster Variable Summary

Role	Level	Frequency Count	Name
INPUT	INTERVAL	3	MeanHHSz MedHHInc RegDens
ID	NOMINAL	1	ID

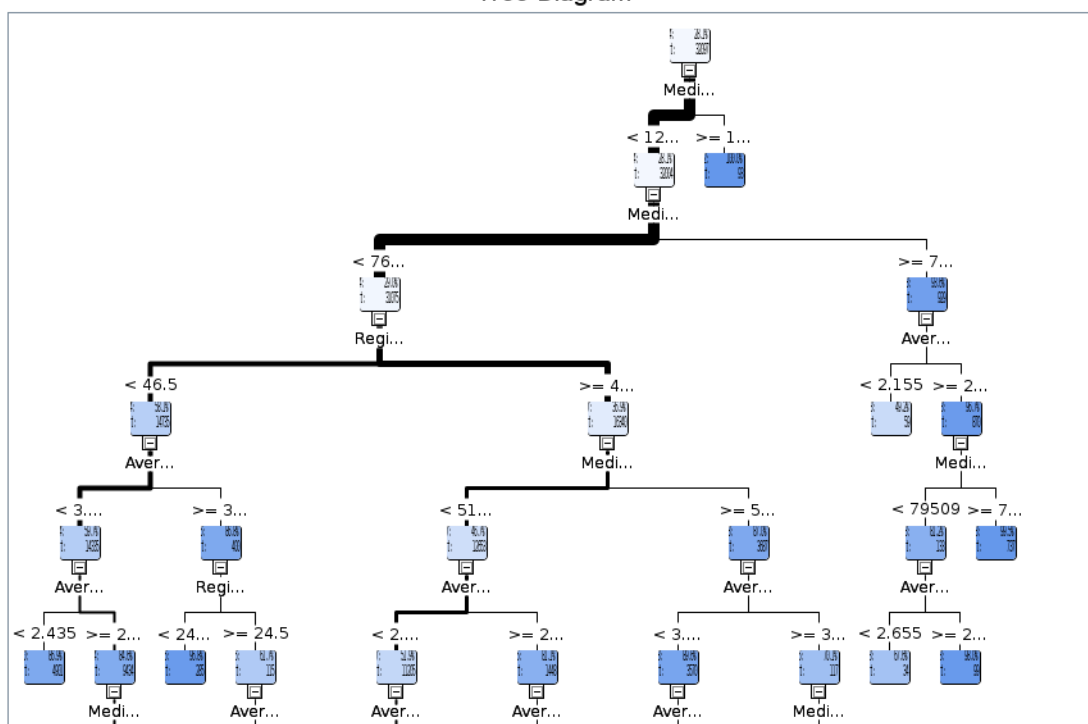
### Node=Cluster Mean Statistics

Variable	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5	Segment 6	Segment 7	Segment 8	Segment 9	Segment 10
Clustering Criterion	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Maximum Relative Change in Cluster Seeds	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Improvement in Clustering Criterion	.	.	.	.	.	.	.	.	.	.
Frequency of Cluster	4715.00	93.00	927.00	9009.00	1503.00	515.00	6443.00	3714.00	10.00	5168.00
Root-Mean-Square Standard Deviation	0.60	1.19	0.71	0.47	0.69	0.99	0.44	0.54	1.91	0.50
Maximum Distance from Cluster Seed	4.31	4.85	3.92	2.81	3.48	4.80	2.00	3.60	5.30	6.08
Nearest Cluster	7.00	3.00	8.00	10.00	7.00	5.00	4.00	7.00	6.00	4.00
Distance to Nearest Cluster	1.28	3.53	1.83	1.12	1.77	2.35	1.25	1.38	7.02	1.12
Average Household Size	2.22	2.79	2.82	2.66	3.28	3.99	2.63	2.67	6.70	2.27
Median Household Income	33761.54	147298.44	89936.93	34124.40	34447.09	30758.95	39787.00	60820.83	33793.40	30016.17
Region Density Percentile	80.66	74.76	78.03	28.19	76.30	34.48	62.90	76.82	40.80	15.90

SAS Enterprise Miner Report  
Node=Cluster  
Segment Size



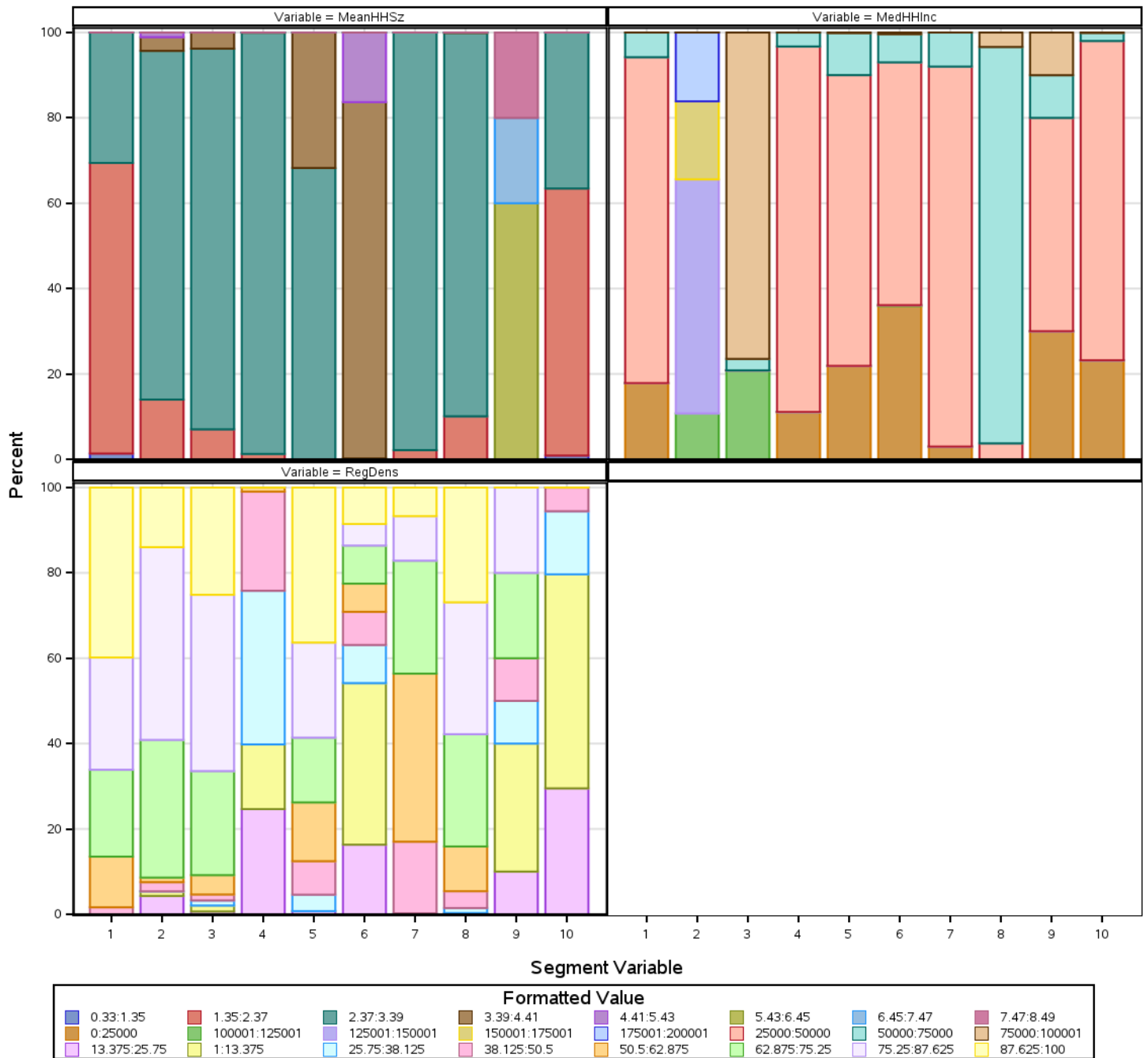
SAS Enterprise Miner Report  
Node=Cluster  
Tree Diagram



## SAS Enterprise Miner Report

Node=Cluster

Segment Plot



## SAS Enterprise Miner Report

### Node=Segment Profile Summary

Node id = Prof  
Node label = Segment Profile  
Meta path = Ids => Filter => Clus => Prof  
Notes =

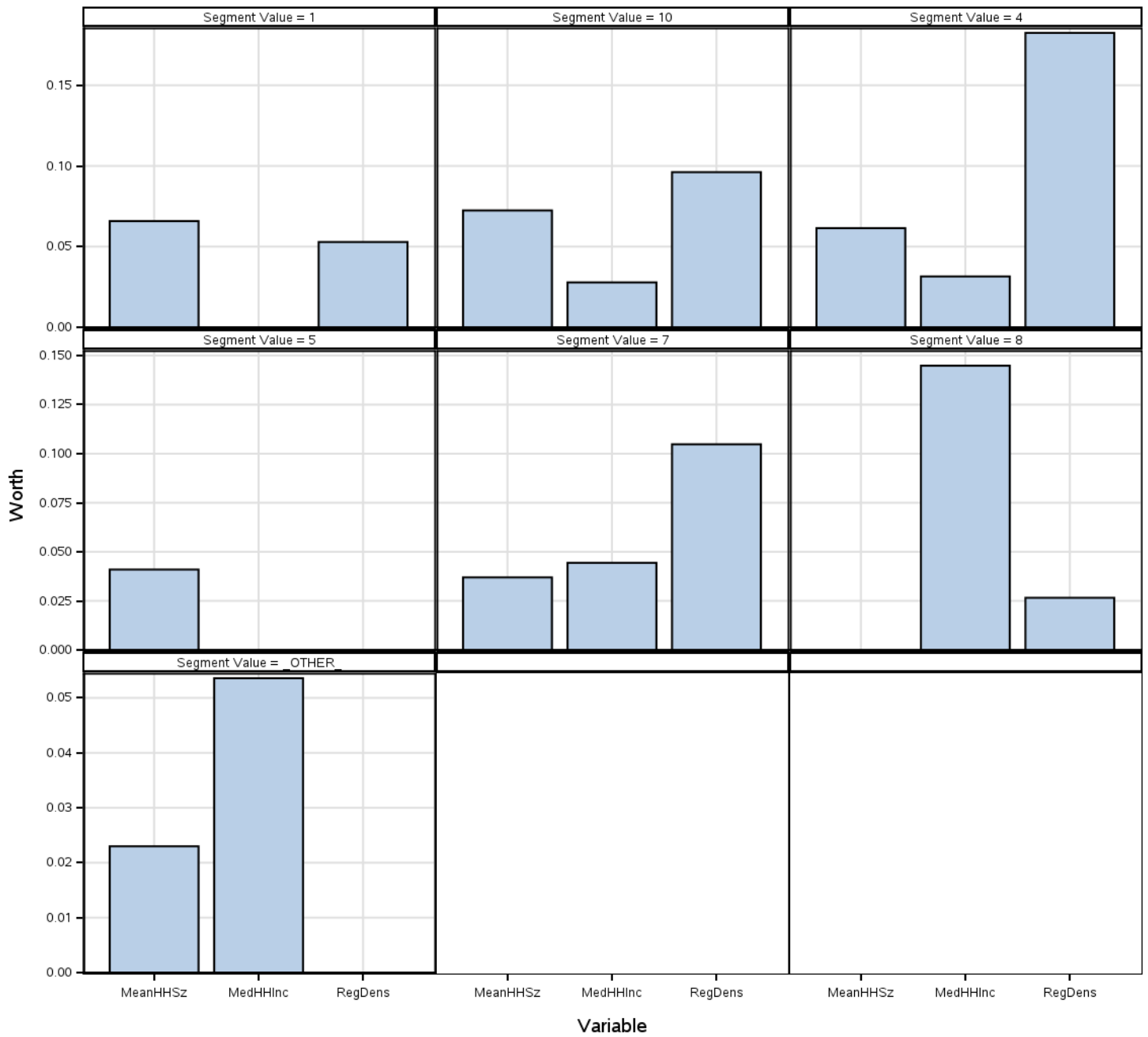
### Node=Segment Profile Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Profile		MinWorth	0.01		ProfileAll	N	
MaxDepth	1		NumHistBars	8		TargetRole	NONE	
MaxNumInput	10		OtherPercentCutOff	95		UseReportVars	Y	
MaxNumReport	10		PrintWorth	Y				

### Node=Segment Profile Variable Summary

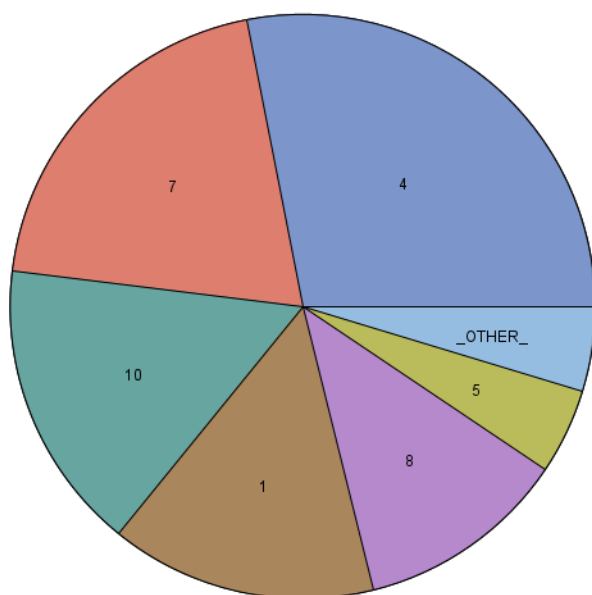
Role	Level	Frequency Count	Name
INPUT	INTERVAL	3	MeanHHSz MedHHInc RegDens

SAS Enterprise Miner Report  
Node=Segment Profile  
Variable Worth  
SEGMENTVARIABLE='\_SEGMENT\_'





SAS Enterprise Miner Report  
Node=Segment Profile  
Segment Size



End of Report