

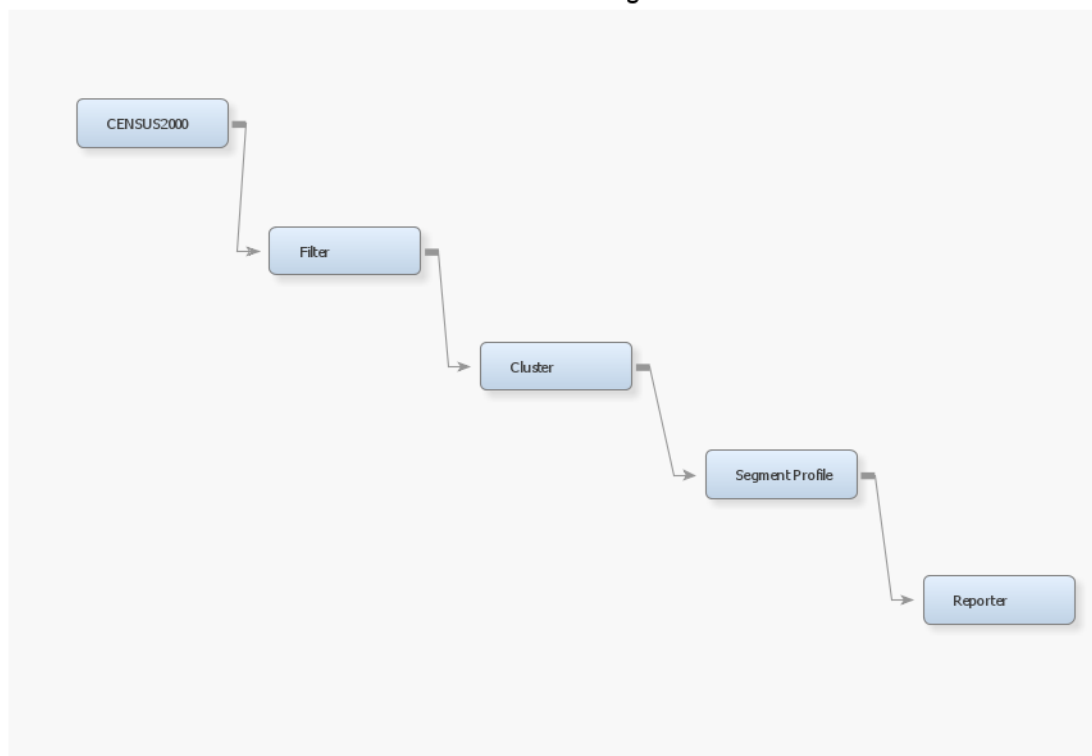
SAS Enterprise Miner Report

User = u63340697
Date = 16:20:15 August 19
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 = lds
Node label = CENSUS2000
Meta path = lds
Notes =

Node=CENSUS2000
Properties

| Property | Value | Default | Property | Value | Default | Property | Value | Default |
|------------------------------|-----------------|---------|----------------------|--------------|---------|-------------------|------------|---------|
| Component | DataSource | | DsCreatedBy | u63340697 | | NBytes | . | |
| ApplyIntervalLevelLowerLimit | Y | | DsId | census | | NCols | 7 | . |
| ApplyMaxClassLevels | Y | | DsModifiedBy | u63340697 | | NObs | 33178 | . |
| ApplyMaxPercentMissing | Y | | DsModifyDate | 2008072869.7 | | NewTable | | |
| CMeta | WORK.M3JMO87W | | 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 | 2008072869.7 | | MetaAdvisor | BASIC | | Table | CENSUS2000 | |

Node=CENSUS2000
Data Attributes

| Attribute | Value | Attribute | Value | Attribute | Value |
|------------|------------|----------------|--------------------|--------------|-------|
| Data Name | CENSUS2000 | Date Created | 02Apr2012:18:02:35 | Data Size | . |
| Data Type | DATA | Date Modified | 02Apr2012:18:02:35 | 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 | | | | |

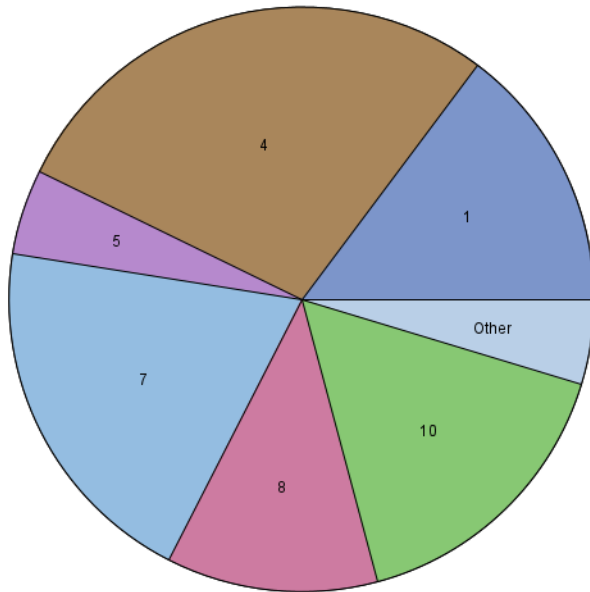
Node=Cluster
Variable Summary

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

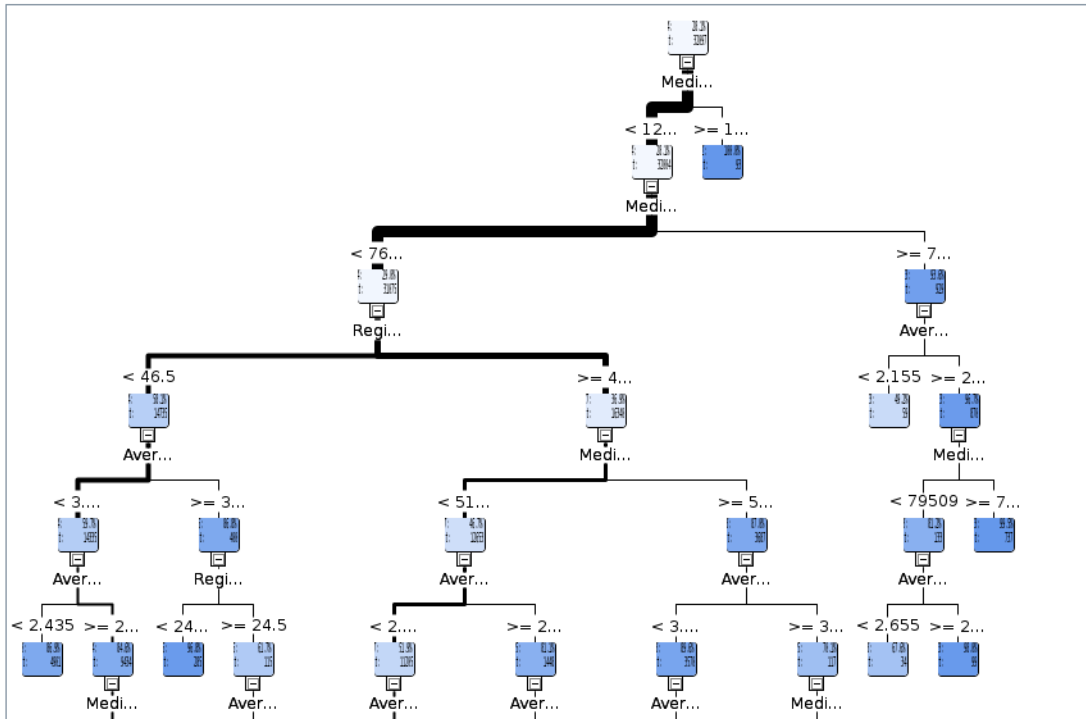
Node=Cluster
Mean Statistics

| 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 |

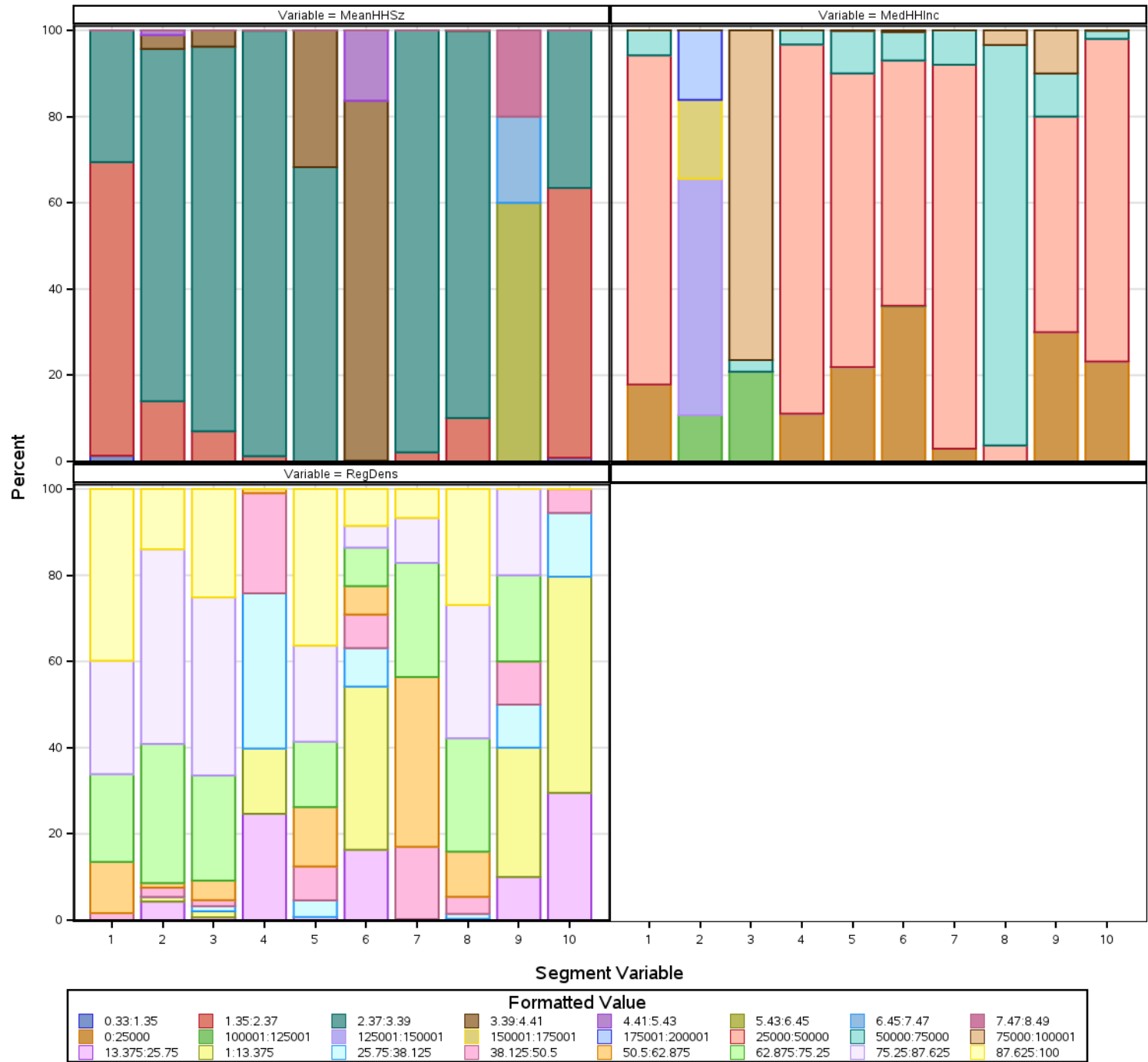
SAS Enterprise Miner Report
Node=Cluster
Segment Size



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 =

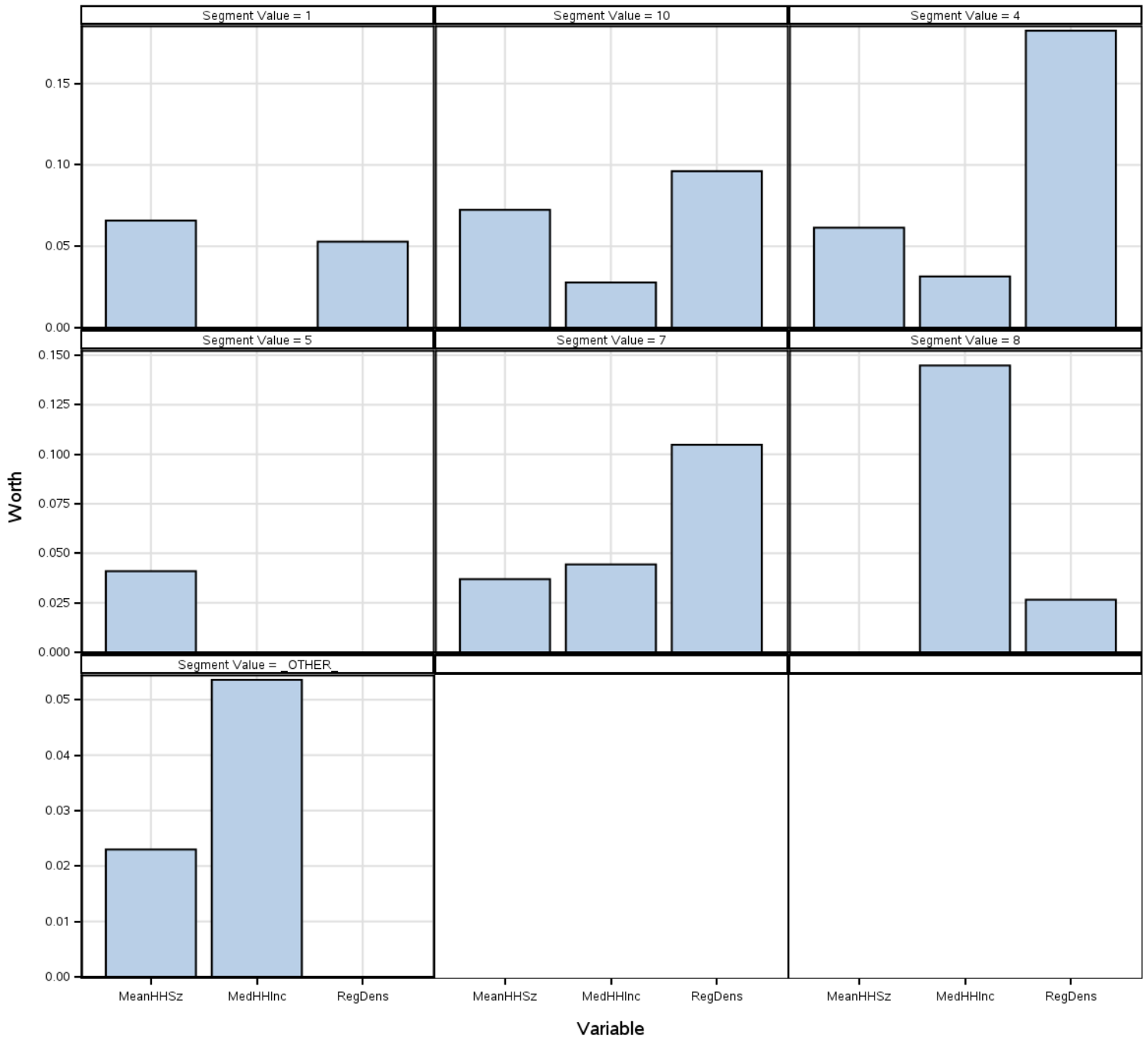
Node=Segment Profile Properties

| 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 | | | | |

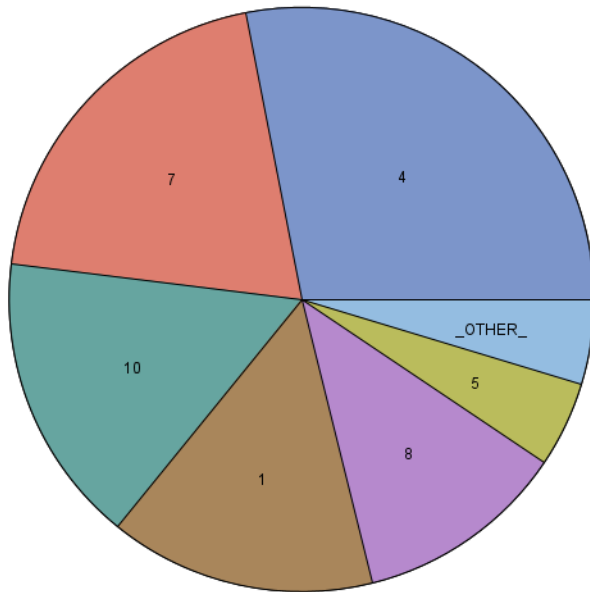
Node=Segment Profile Variable Summary

| 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