

Assessment 2D – Week 5 Workbook Exercise

Decision Trees and Cluster Analysis

Question	Answer	SAS VA visualisation reference
1. On which variable is the first split in the tree?	Age	Decision Tree 1 Tree Pane
2. How many leaf nodes are in the tree?	15	Decision Tree 1 Tree Pane
3. What is the cumulative lift in the model at the 5 th percentile?	3.3519	Decision Tree 1 Assessment Pane
4. What is the K-S statistic for the model?	0.4511	Decision Tree 1 Assessment Pane
5. How many false negatives are there?	15,340	Decision Tree 1 Assessment Pane
6. Which node has the highest percent of target event 1?	9 (92.19%)	Decision Tree 1 Leaf Statistics Pane
7. Which node provides the highest gain?	21 (0.2115)	Decision Tree 1 Node Statistics
8. What splitting rules are applied to this node?	Affluence Grade \geq 15.3 Age $<$ 42.4	Decision Tree 1 Node Rules
9. Which model is selected when the fit statistic is Misclassification?	Logistic – with IM & VarSel	
10. Which model is the next best model based on Misclassification?	Decision Tree 1	

