$Assessment\ 2B-Week\ 3\ Workbook\ Exercise \\ General\ Linear\ Modelling$

Question		Answer	SAS VA visualisation reference
1.	What is the AIC value for the model?	408,433.77	GLM-Poisson Summary Statistics – Fit Statistics
2.	How many parameters ended up in the model?	30 [incl the intercept]	GLM-Poisson Summary Statistics – Parameter Estimates or Summary Statistics - Dimensions
3.	What is the AIC value for the GLM-Gamma model?	332,364.36	GLM-Gamma
4.	Which model is selected as the best model?	Linear model [with ASE or SSE as Fit Statistic] GLM-Gamma model [with Observed Average as Fit Statistic]	Model Comparison 1 Summary Statistics – Statistics
5.	What is the most important variable for the Linear 1 model?	Gift Amount Average 36 Months	Model Comparison 1 Summary Statistics – Variable Importance
6.	What is the AIC value for the GLM-Poisson Log model?	154,389.71	GLM-Poisson Log Summary Statistics – Fit Statistics
7.	What is the MSE value for the Linear 1 Log model?	0.197224	Linear 1 Log Summary Statistics – Overall ANOVA
8.	Did the most important variables for any model type change?	[Nb, the wording of this question was somewhat ambiguous and open to interpretation.] No; although the order of significance of the predictor variables for the new models was slightly different. For example, <i>Gift Amount Last</i> was the 4 th most important predictor in the Linear 1 Log model, but the 5 th most important in the GLM-Poisson Log model. [answer should be Linear: No as stayed <i>Gift Amount</i>	Model Comparison 2 Summary Statistics – Variable Importance
		Average 36 Months GLM-Poisson: Yes as changed to Gift Count 36 Months from Gift Amount Average 36 Months]	

	ost important ne Linear 1 Log	Gift Amount Average 36 Months	Model Comparison 2 Summary Statistics – Variable Importance
10. What is the movariable for the Poisson Log	ne GLM-	Gift Count 36 Months	Model Comparison 2 Summary Statistics – Variable Importance



