

The FREQ Procedure

Frequency
Percent
Row Pct
Col Pct

Table of V_churn by V_CSC				
V_churn	V_CSC			
	0	1	2	Total
0	1664 49.92 58.39 88.60	1057 31.71 37.09 88.97	129 3.87 4.53 48.31	2850 85.51
1	214 6.42 44.31 11.40	131 3.93 27.12 11.03	138 4.14 28.57 51.69	483 14.49
Total	1878 56.35	1188 35.64	267 8.01	3333 100.00

The LOGISTIC Procedure

Model Information	
Data Set	WORK.CHURN_2
Response Variable	V_churn
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	3333
Number of Observations Used	3333

Response Profile		
Ordered Value	V_churn	Total Frequency
1	1	483
2	0	2850

Probability modeled is V_churn=1.

Class Level Information			
Class	Value	Design Variables	
V_CSC	0	0	0
	1	1	0
	2	0	1

Model Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	2760.293	2532.737
SC	2766.405	2551.072
-2 Log L	2758.293	2526.737

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	231.5567	2	<.0001
Score	324.1188	2	<.0001
Wald	249.0884	2	<.0001

The LOGISTIC Procedure

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
V_CSC	2	249.0884	<.0001

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-2.0510	0.0726	797.6353	<.0001
V_CSC	1	1	-0.0370	0.1177	0.0988	0.7533
V_CSC	2	1	2.1184	0.1424	221.3777	<.0001

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
V_CSC 1 vs 0	0.964	0.765	1.214
V_CSC 2 vs 0	8.318	6.293	10.996

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	43.7	Somers' D	0.246
Percent Discordant	19.1	Gamma	0.393
Percent Tied	37.2	Tau-a	0.061
Pairs	1376550	c	0.623