The FREQ Procedure

Frequency Row Pct

Table of Sex by Survived					
	Survived				
Sex	0 1 Total				
female	154 33.33	308 66.67	462		
male	709 83.31	142 16.69	851		
Total	863	450	1313		

Statistics for Table of Sex by Survived

Odds Ratio and Relative Risks						
Statistic Value 95% Confidence Limits						
Odds Ratio	0.1001	0.0769 0.1304				
Relative Risk (Column 1)	1) 0.4001 0.3505 0.456		0.4567			
Relative Risk (Column 2)	3.9953	3.3931	4.7044			

Sample Size = 1313

on
INTRO.TITANIC
Survived
2
binary logit
Fisher's scoring

Number of Observations Read	1313
Number of Observations Used	1313

Response Profile				
Ordered Total Value Survived Frequency				
1	0	863		
2	1	450		

Probability modeled is Survived='0'.

Class Level Information				
Class	Design Value Variables			
Sex	female	1		
	male	-1		

Model Convergence Status

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

Model Fit Statistics				
Criterion	Intercept and Covariates			
AIC	1690.065	1359.531		
sc	1695.245	1369.891		
-2 Log L	1688.065	1355.531		

Testing Global Null Hypothesis: BETA=0					
Test Chi-Square DF Pr > ChiSquare					
Likelihood Ratio	332.5344	1	<.0001		
Score	332.0570	1	<.0001		
Wald	291.0644	1	<.0001		

Type 3 Analysis of Effects				
Effect	DF	Wald Chi-Square	Pr > ChiSq	
Sex	1	291.0644	<.0001	

Analysis of Maximum Likelihood Estimates						
Parameter DF Estimate Standard Wald Chi-Square Pr > ChiSq						Pr > ChiSq
Intercept		1	0.4574	0.0674	46.0047	<.0001
Sex	female	1	-1.1506	0.0674	291.0644	<.0001

Odds Ratio Estimates					
Effect	Point 95% Wald Estimate Confidence Limits				
Sex female vs male	0.100	0.077	0.130		

Association of Predicted Probabilities and Observed Responses						
Percent Concordant 56.2 Somers' D 0.506						
Percent Discordant	5.6	Gamma	0.818			
Percent Tied	38.1	Tau-a	0.228			
Pairs	388350	С	0.753			

The FREQ Procedure

Frequency Row Pct

Table of PClass by Survived					
		Survived			
PClass	0	1	Total		
1st	129 40.06	193 59.94	322		
2nd	161 57.50	119 42.50	280		
3rd	573 80.59	138 19.41	711		
Total	863	450	1313		

Model Information				
Data Set	INTRO.TITANIC			
Response Variable	Survived			
Number of Response Levels	2			
Model	binary logit			
Optimization Technique	Fisher's scoring			

Number of Observations Read	1313
Number of Observations Used	1313

Response Profile				
Ordered Tota Value Survived Frequency				
1	0	863		
2	1	450		

Probability modeled is Survived='0'.

Class Level Information					
Class	Design Value Variables				
PClass	1st	1	1 0		
	2nd	0	1		
	3rd	-1	-1		

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

Model Fit Statistics				
Criterion	Intercept and Covariates			
AIC	1690.065	1521.191		
sc	1695.245	1536.731		
-2 Log L	1688.065	1515.191		

Testing Global Null Hypothesis: BETA=0						
Test Chi-Square DF Pr > ChiSq						
Likelihood Ratio	172.8740	2	<.0001			
Score	172.2991	2	<.0001			
Wald	159.1198	2	<.0001			

Type 3 Analysis of Effects				
Effect DF Chi-Square Pr > ChiSq				
PClass	2	159.1198	<.0001	

Analysis of Maximum Likelihood Estimates						
Parameter DF Estimate Standard Chi-Square Pr > ChiSquare Pr > ChiS						Pr > ChiSq
Intercept		1	0.4410	0.0637	47.9048	<.0001
PClass	1st	1	-0.8439	0.0915	85.0729	<.0001
PClass	2nd	1	-0.1387	0.0945	2.1548	0.1421

Odds Ratio Estimates				
Point 95% Wald Effect Estimate Confidence Limits				
PClass 1st vs 3rd	0.161	0.120 0.21		
PClass 2nd vs 3rd	0.326	0.241	0.440	

Association of Predicted Probabilities and Observed Responses						
Percent Concordant 54.0 Somers' D 0.398						
Percent Discordant	14.3	Gamma	0.582			
Percent Tied	31.7	Tau-a	0.179			
Pairs	388350	С	0.699			

The FREQ Procedure

Frequency
Row Pct

Table of child by Survived						
	Survived					
child	0 1 Total					
0	358 61.30	226 38.70	584			
1	505 69.27	224 30.73	729			
Total	863	450	1313			

Statistics for Table of child by Survived

Odds Ratio and Relative Risks						
Statistic Value 95% Confidence Limit						
Odds Ratio	odds Ratio 0.7026 0.5588 0.					
Relative Risk (Column 1)	0.8849	0.8164	0.9592			
Relative Risk (Column 2)	1.2594	1.0847	1.4623			

Sample Size = 1313

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

Number of Observations Read	1313
Number of Observations Used	1313

Response Profile				
Ordered Total Value Survived Frequency				
1	0	863		
2	1	450		

Probability modeled is Survived='0'.

Class Level Information				
Class	Design Value Variables			
child	0	1		
	1	-1		

Model Convergence Status

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

Model Fit Statistics					
Intercept and Criterion Only Covariates					
AIC	1690.065	1682.940			
sc	1695.245	1693.300			
-2 Log L	1688.065	1678.940			

Testing Global Null Hypothesis: BETA=0					
Test Chi-Square DF Pr > Chi					
Likelihood Ratio	9.1251	1	0.0025		
Score	9.1469	1	0.0025		
Wald	9.1160	1	0.0025		

-	Type 3 Analysis of Effects				
Effect	DF	Wald Chi-Square Pr > ChiSq			
child	1	9.1160	0.0025		

Analysis of Maximum Likelihood Estimates						
Parameter DF Estimate Standard Wald Chi-Square Pr > ChiS					Pr > ChiSq	
Intercept		1	0.6365	0.0584	118.5931	<.0001
child	0	1	-0.1765	0.0584	9.1160	0.0025

Odds Ratio Estimates					
Effect	Point 95% Wald Estimate Confidence Limits				
child 0 vs 1	0.703	0.559	0.884		

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	29.4	Somers' D	0.087
Percent Discordant	20.6	Gamma	0.175
Percent Tied	50.0	Tau-a	0.039
Pairs	388350	С	0.544