

Logistic Regression Results

The LOGISTIC Procedure

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

Number of Observations Read	418
Number of Observations Used	276

Response Profile		
Ordered Value	D	Total Frequency
1	0	165
2	1	111

Probability modeled is D='1'.

Note: 142 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information				
Class	Value	Design Variables		
Z1	1	1		
	2	0		
Z6	0	1		
	1	0		
Z3	0	1		
	1	0		
Z5	0	1		
	1	0		
Z7	0	1	0	
	1	0	1	
	0.5	0	0	
Z17	1	1	0	0
	2	0	1	0
	3	0	0	1
	4	0	0	0
Z4	0	1		
	1	0		

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

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Note: 142 observations were deleted due to missing values for the response or explanatory variables.

Deviance and Pearson Goodness-of-Fit Statistics				
Criterion	Value	DF	Value/DF	Pr > ChiSq
Deviance	235.1165	255	0.9220	0.8091
Pearson	390.8211	255	1.5326	<.0001

Number of unique profiles: 276

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	373.984	277.116
SC	377.604	353.145
-2 Log L	371.984	235.116

R-Square	0.3910	Max-rescaled R-Square	0.5282
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Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	136.8671	20	<.0001
Score	108.2980	20	<.0001
Wald	64.5753	20	<.0001

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
Z8	1	3.3689	0.0664
Z2	1	8.0751	0.0045
Z9	1	0.1407	0.7076
Z10	1	0.0791	0.7786
Z11	1	1.3027	0.2537
Z12	1	9.0973	0.0026
Z13	1	3.2853	0.0699
Z14	1	0.5644	0.4525
Z15	1	0.0002	0.9880
Z16	1	11.7498	0.0006
Z1	1	0.8201	0.3652
Z6	1	0.7797	0.3772
Z3	1	1.4500	0.2285
Z5	1	0.0818	0.7749
Z7	2	0.3166	0.8536
Z17	3	3.8750	0.2753
Z4	1	0.5746	0.4484

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Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-11.7684	3.5604	10.9257	0.0009
Z8	1	0.1532	0.0835	3.3689	0.0664
Z2	1	0.0519	0.0183	8.0751	0.0045
Z9	1	0.000322	0.000857	0.1407	0.7076
Z10	1	-0.1408	0.5006	0.0791	0.7786
Z11	1	0.00285	0.00250	1.3027	0.2537
Z12	1	0.000271	0.000090	9.0973	0.0026
Z13	1	0.00584	0.00322	3.2853	0.0699
Z14	1	0.00248	0.00330	0.5644	0.4525
Z15	1	-0.00003	0.00199	0.0002	0.9880
Z16	1	0.7345	0.2143	11.7498	0.0006
Z1	1	0.3091	0.3413	0.8201	0.3652
Z6	1	-0.3533	0.4001	0.7797	0.3772
Z3	1	0.6448	0.5355	1.4500	0.2285
Z5	1	-0.1144	0.4000	0.0818	0.7749
Z7	1	0.0705	0.6022	0.0137	0.9068
Z7	1	0.8463	1.5059	0.3158	0.5741
Z17	1	-2.8148	1.4855	3.5905	0.0581
Z17	1	-0.2192	0.5444	0.1621	0.6872
Z17	1	0.0260	0.4429	0.0034	0.9532
Z4	1	-1.0535	1.3898	0.5746	0.4484

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	88.8	Somers' D	0.775
Percent Discordant	11.2	Gamma	0.775
Percent Tied	0.0	Tau-a	0.374
Pairs	18315	c	0.888

Parameter Estimates and Wald Confidence Intervals			
Parameter	Estimate	95% Confidence Limits	
Intercept	-11.7684	-18.7466	-4.7902
Z8	0.1532	-0.0104	0.3168
Z2	0.0519	0.0161	0.0876
Z9	0.000322	-0.00136	0.00200
Z10	-0.1408	-1.1218	0.8403
Z11	0.00285	-0.00205	0.00775
Z12	0.000271	0.000095	0.000447
Z13	0.00584	-0.00047	0.0121

Logistic Regression Results**The LOGISTIC Procedure****Number of unique profiles: 276**

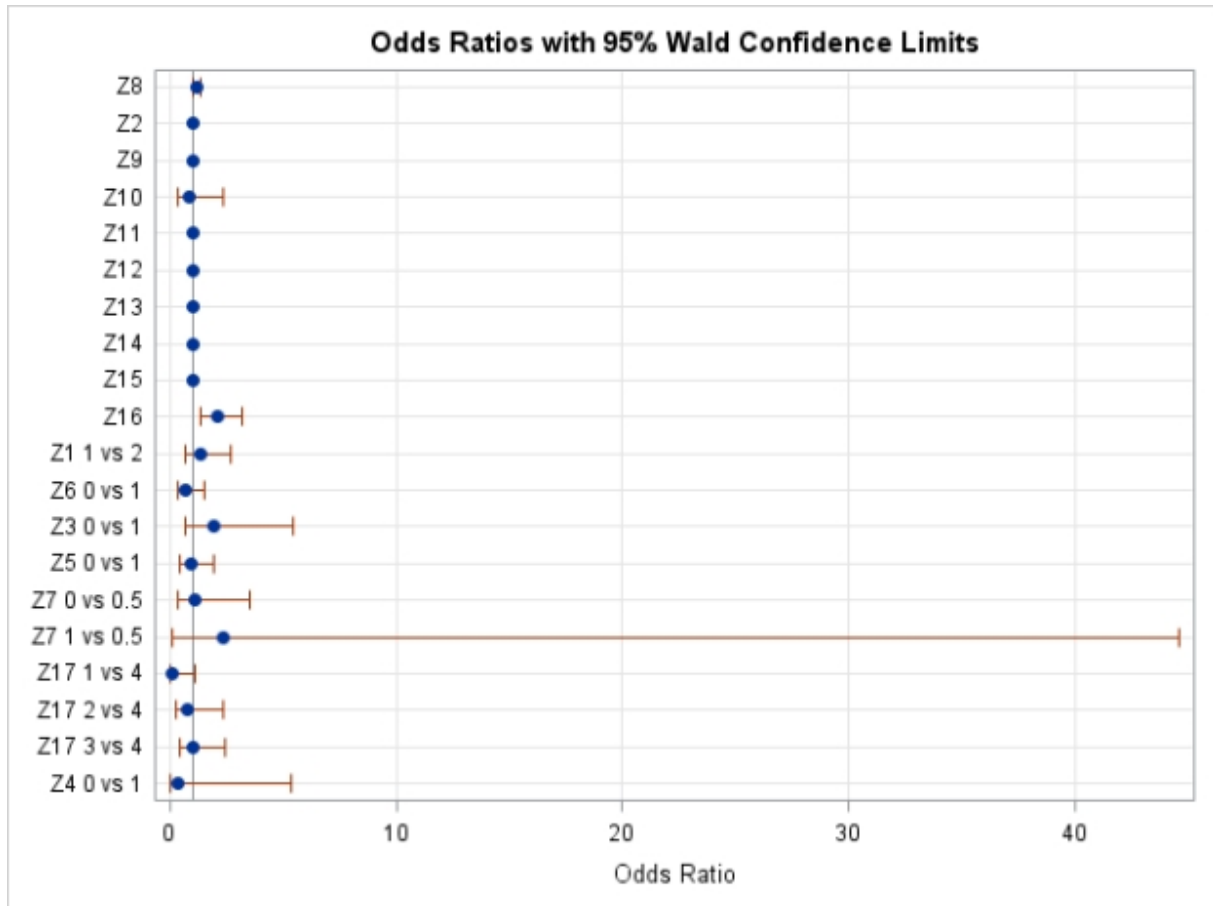
Parameter Estimates and Wald Confidence Intervals				
Parameter		Estimate	95% Confidence Limits	
Z14		0.00248	-0.00399	0.00895
Z15		-0.00003	-0.00393	0.00387
Z16		0.7345	0.3145	1.1545
Z1	1	0.3091	-0.3599	0.9781
Z6	0	-0.3533	-1.1374	0.4309
Z3	0	0.6448	-0.4047	1.6943
Z5	0	-0.1144	-0.8983	0.6695
Z7	0	0.0705	-1.1099	1.2508
Z7	1	0.8463	-2.1052	3.7978
Z17	1	-2.8148	-5.7263	0.0967
Z17	2	-0.2192	-1.2861	0.8477
Z17	3	0.0260	-0.8420	0.8941
Z4	0	-1.0535	-3.7774	1.6704

Odds Ratio Estimates and Wald Confidence Intervals				
Effect	Unit	Estimate	95% Confidence Limits	
Z8	1.0000	1.166	0.990	1.373
Z2	1.0000	1.053	1.016	1.092
Z9	1.0000	1.000	0.999	1.002
Z10	1.0000	0.869	0.326	2.317
Z11	1.0000	1.003	0.998	1.008
Z12	1.0000	1.000	1.000	1.000
Z13	1.0000	1.006	1.000	1.012
Z14	1.0000	1.002	0.996	1.009
Z15	1.0000	1.000	0.996	1.004
Z16	1.0000	2.085	1.370	3.173
Z1 1 vs 2	1.0000	1.362	0.698	2.659
Z6 0 vs 1	1.0000	0.702	0.321	1.539
Z3 0 vs 1	1.0000	1.906	0.667	5.443
Z5 0 vs 1	1.0000	0.892	0.407	1.953
Z7 0 vs 0.5	1.0000	1.073	0.330	3.493
Z7 1 vs 0.5	1.0000	2.331	0.122	44.604
Z17 1 vs 4	1.0000	0.060	0.003	1.102
Z17 2 vs 4	1.0000	0.803	0.276	2.334
Z17 3 vs 4	1.0000	1.026	0.431	2.445
Z4 0 vs 1	1.0000	0.349	0.023	5.314

Logistic Regression Results

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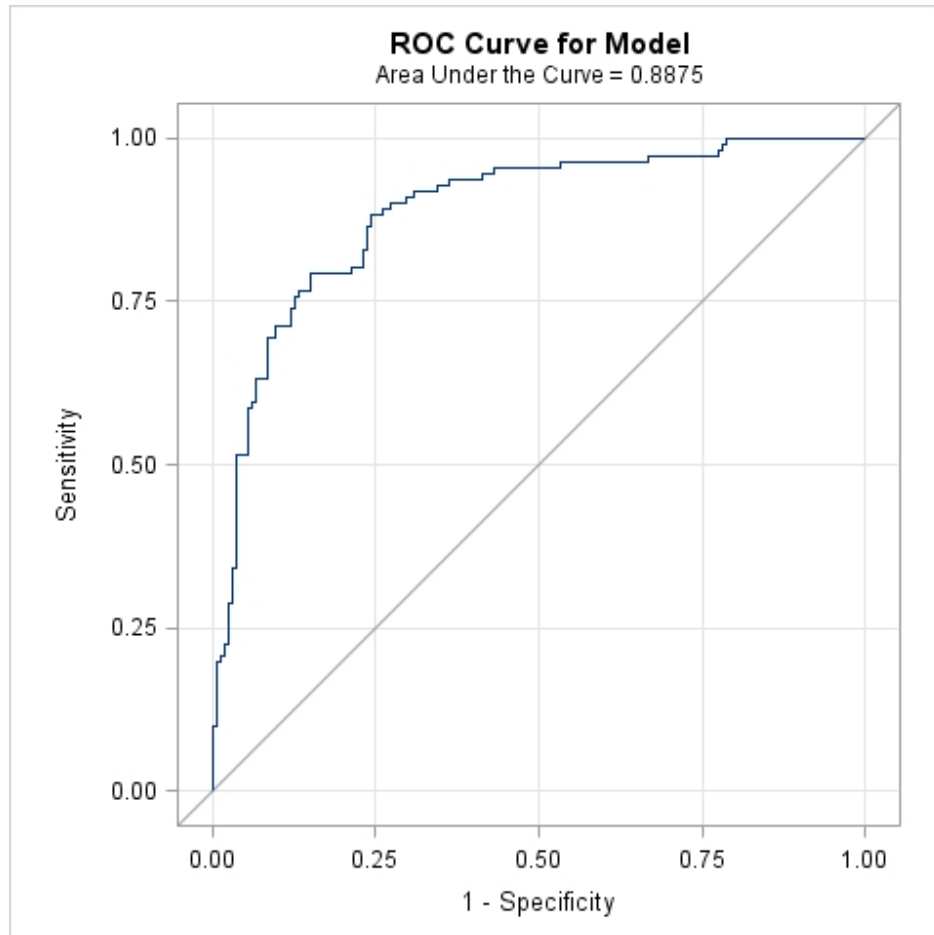
Number of unique profiles: 276



Logistic Regression Results

The LOGISTIC Procedure

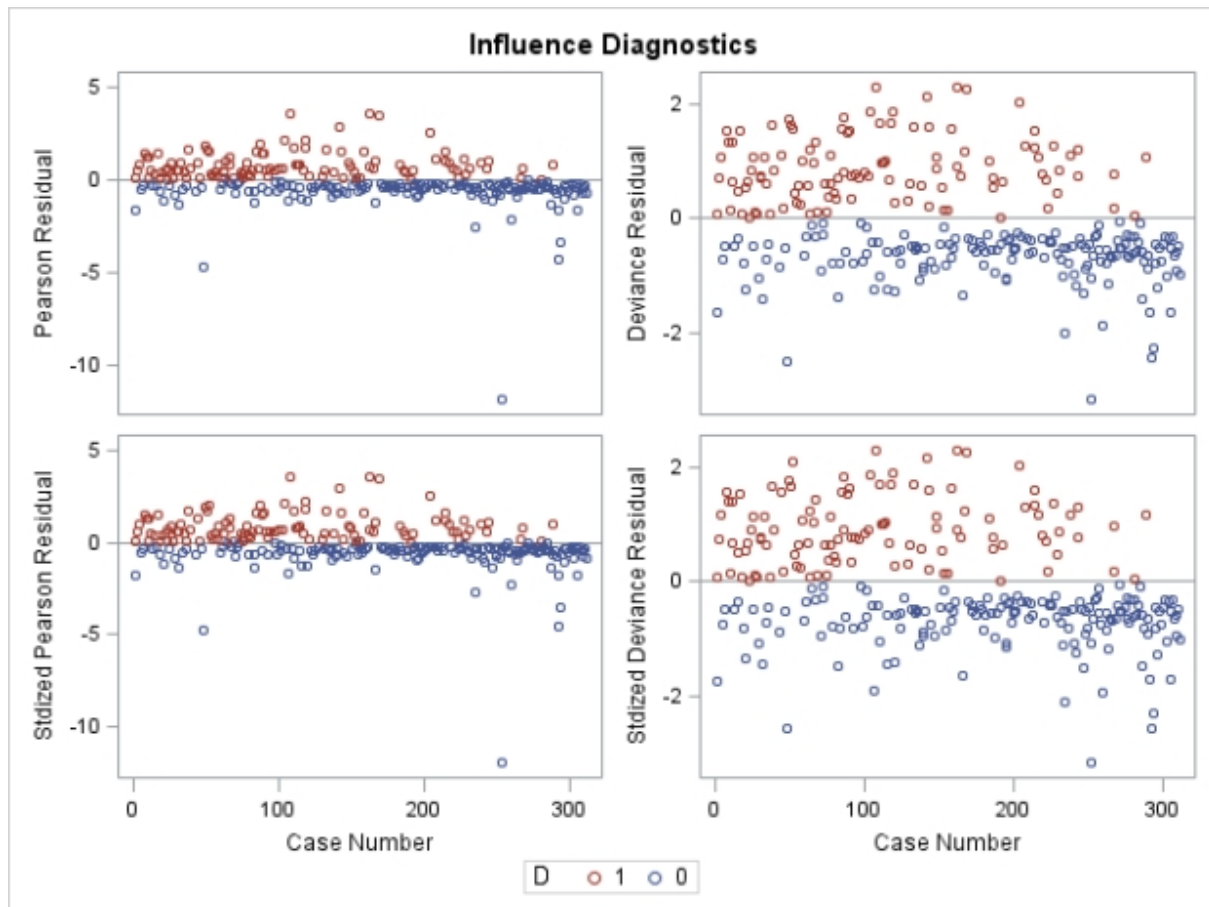
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Partition for the Hosmer and Lemeshow Test					
Group	Total	D = 1		D = 0	
		Observed	Expected	Observed	Expected
1	28	0	0.99	28	27.01
2	28	3	2.31	25	25.69
3	28	2	3.40	26	24.60
4	28	2	4.86	26	23.14
5	28	8	7.10	20	20.90
6	28	11	9.89	17	18.11
7	28	16	14.81	12	13.19
8	28	23	19.86	5	8.14
9	28	24	24.09	4	3.91
10	24	22	23.68	2	0.32

Logistic Regression Results**The LOGISTIC Procedure****Number of unique profiles: 276****Hosmer and Lemeshow Goodness-of-Fit Test**

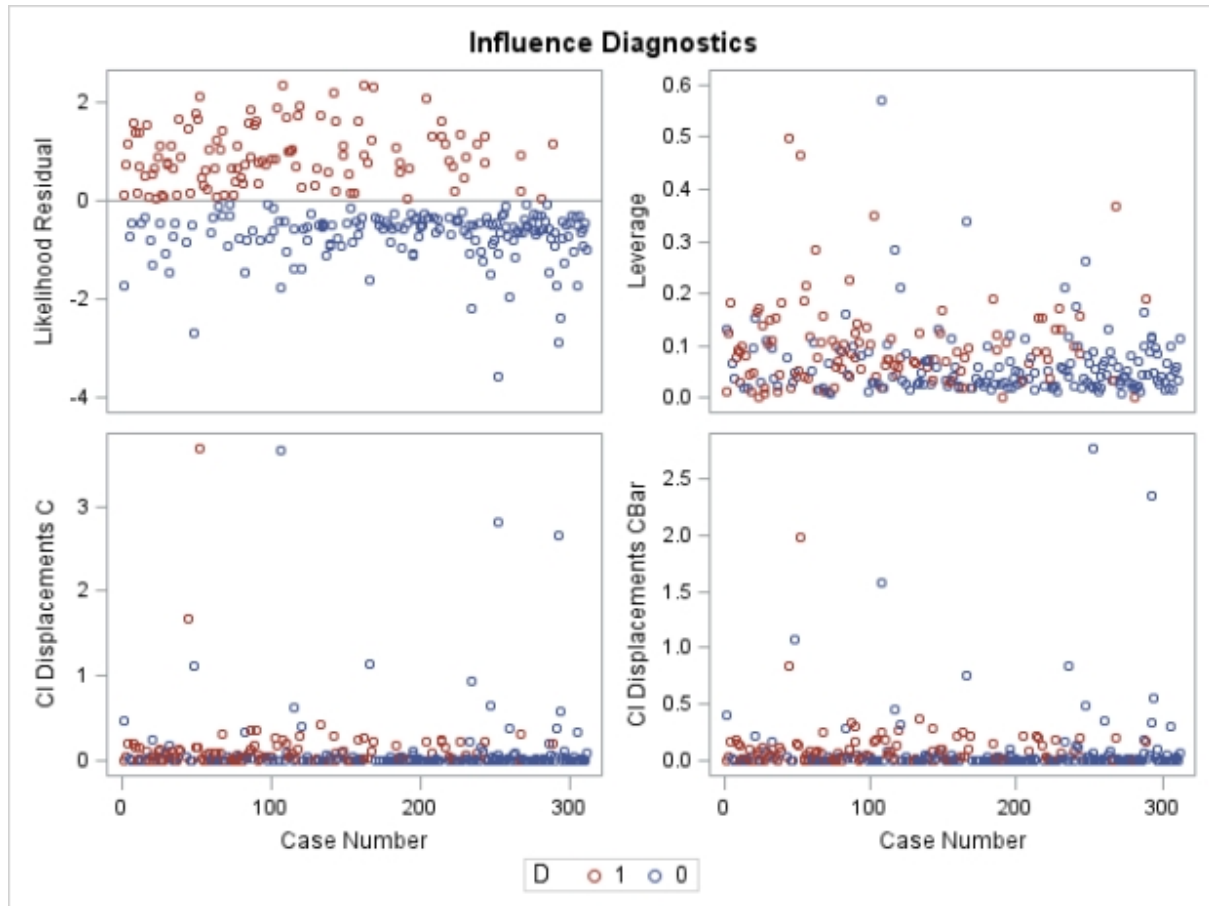
Chi-Square	DF	Pr > ChiSq
15.1985	8	0.0554



Logistic Regression Results

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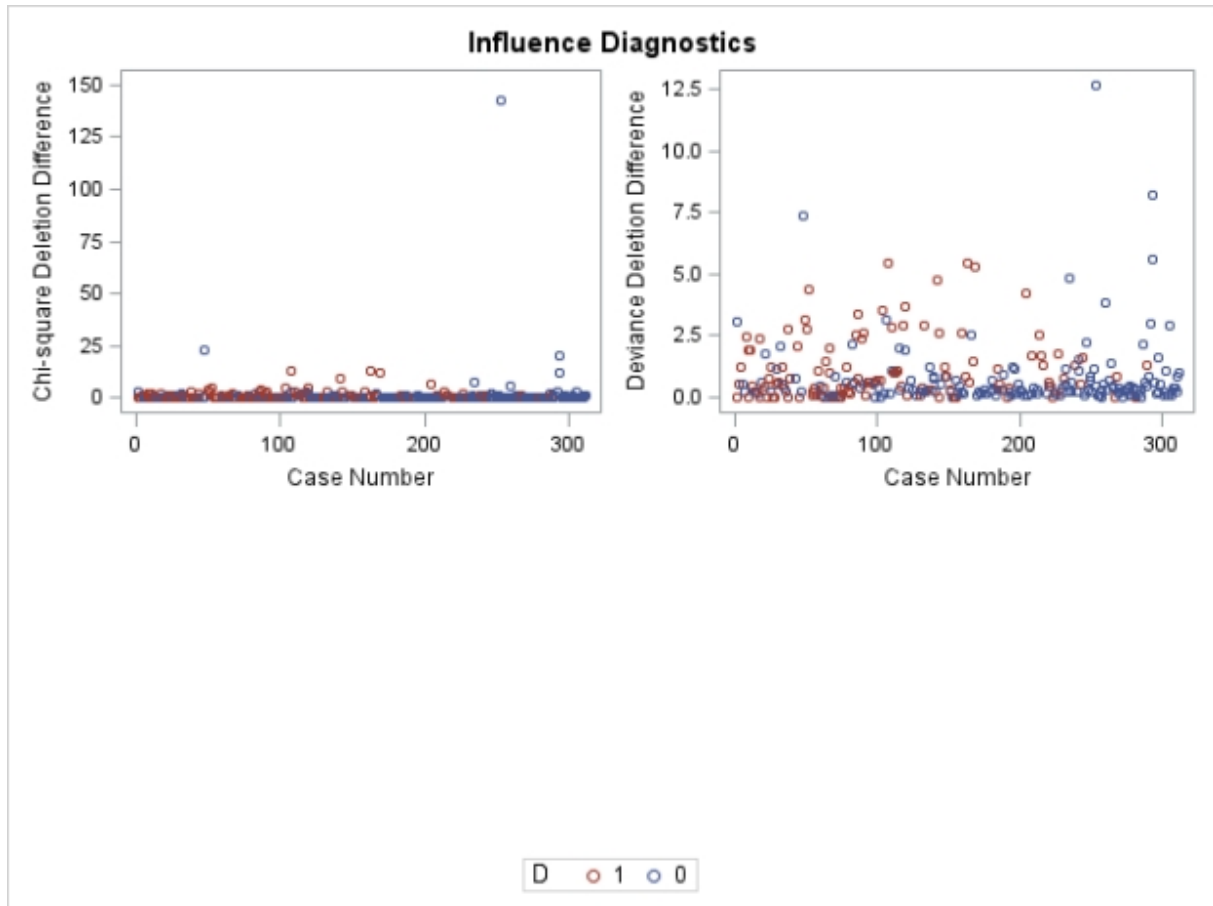
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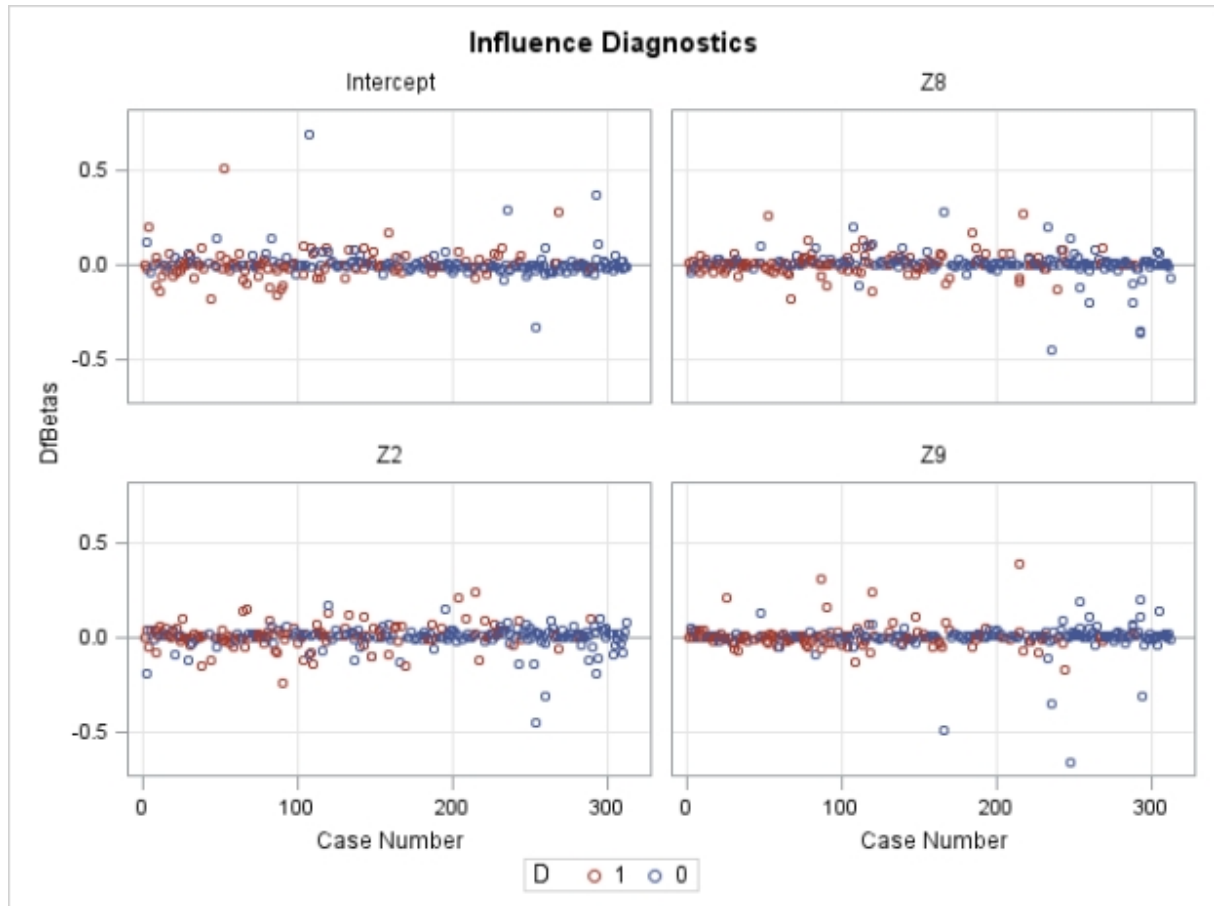
Number of unique profiles: 276



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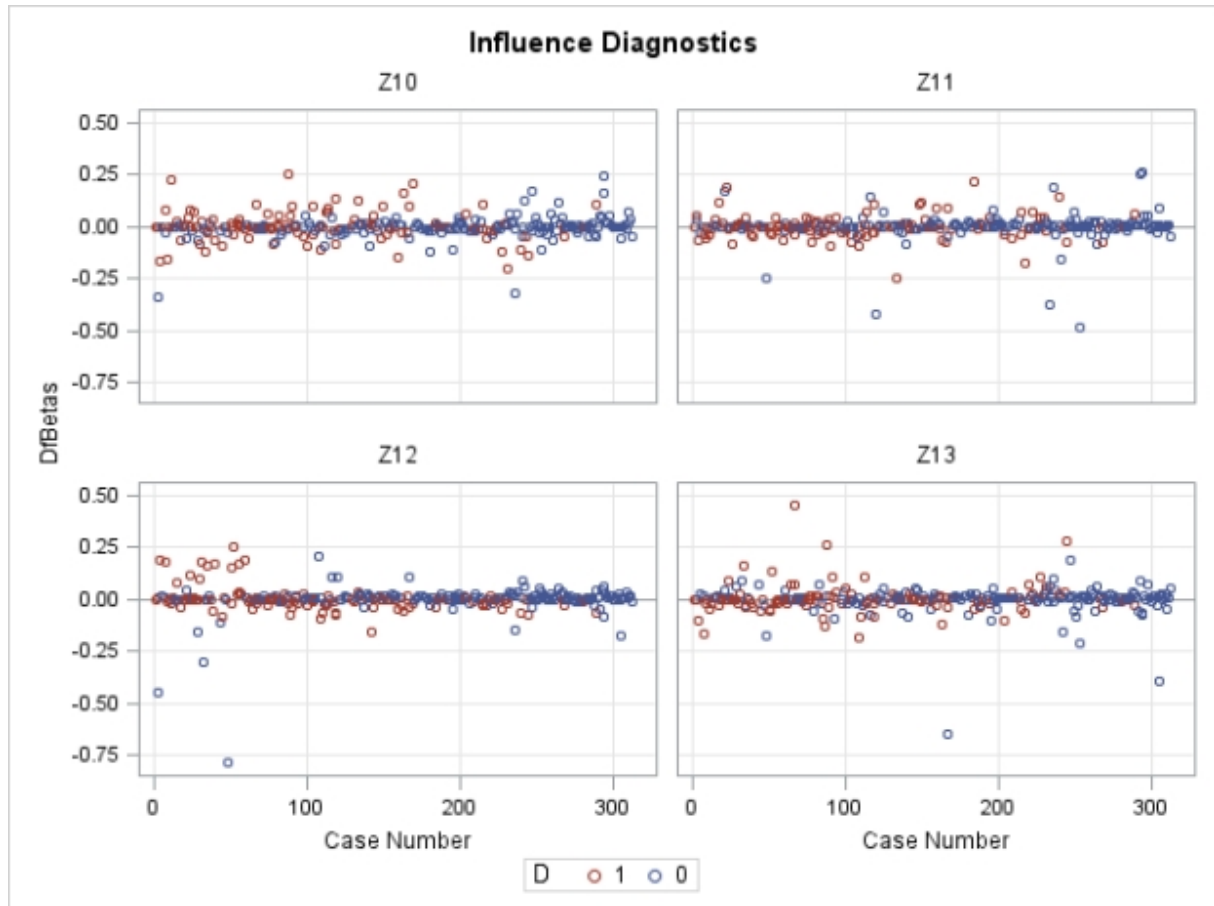
Number of unique profiles: 276



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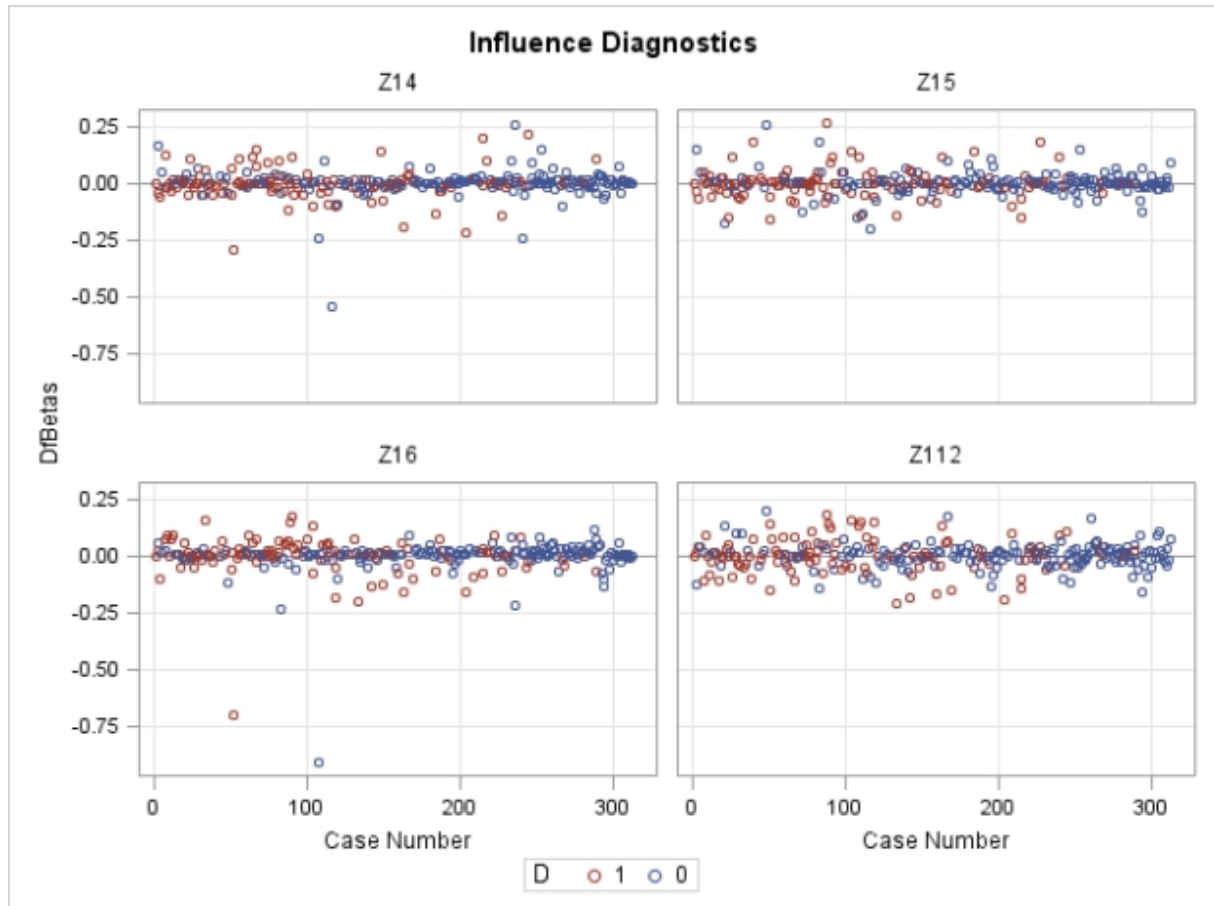
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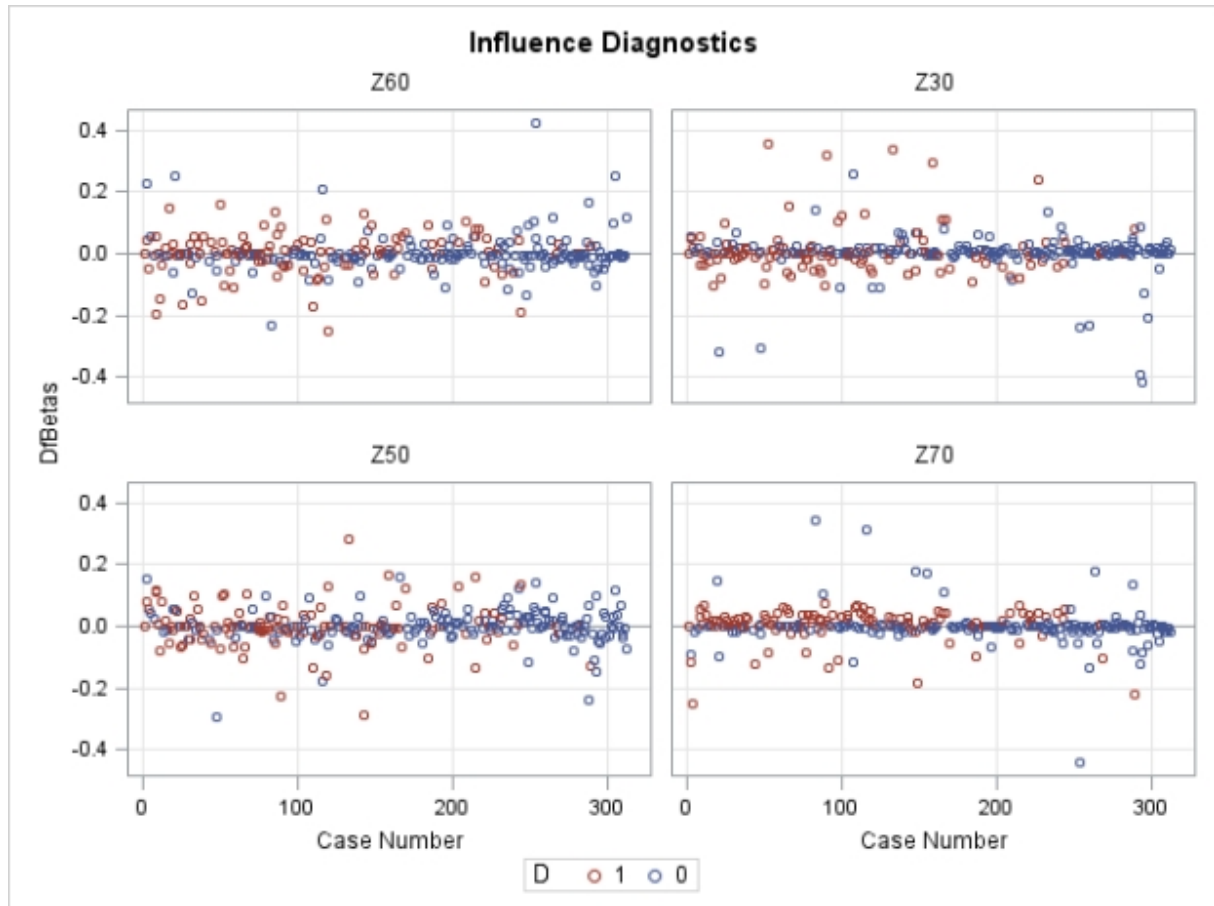
Number of unique profiles: 276



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The LOGISTIC Procedure

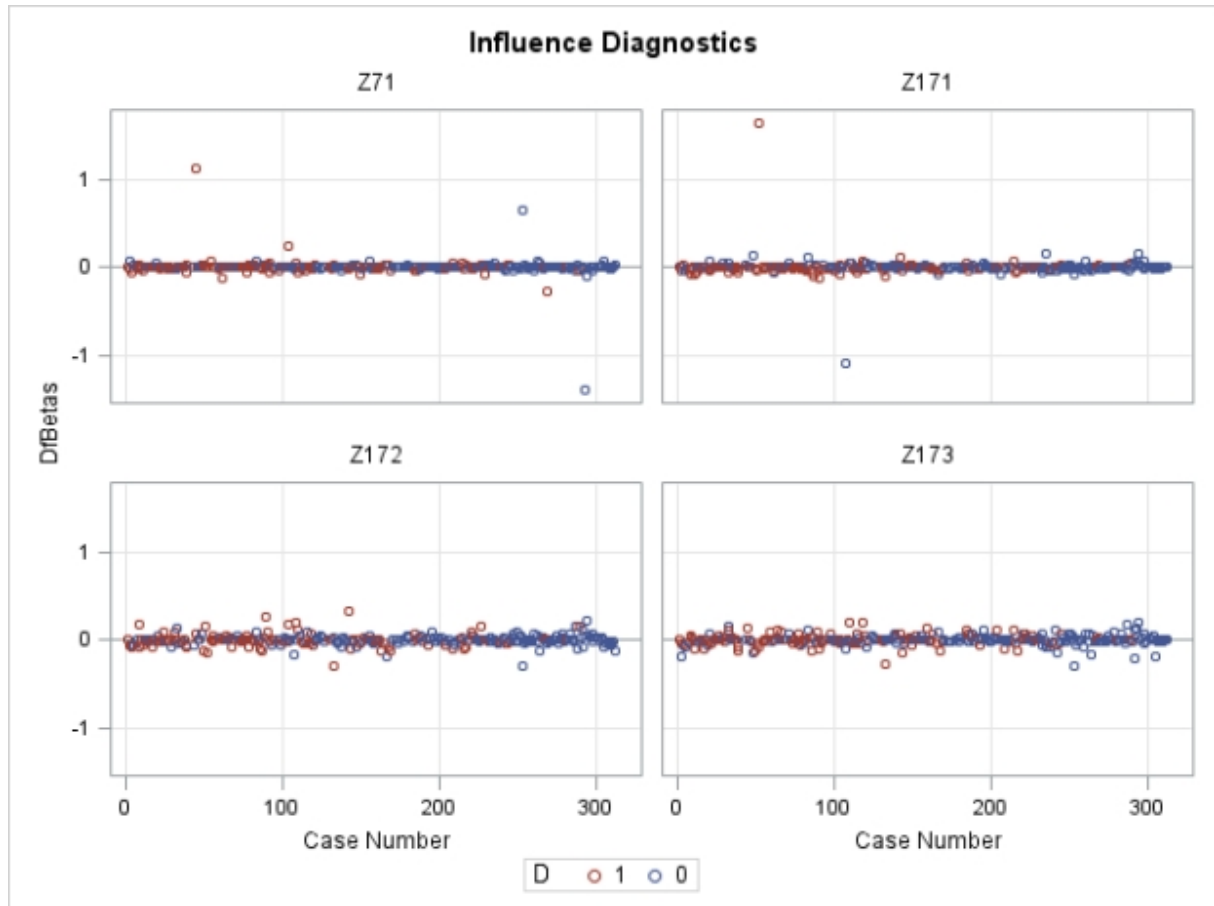
Number of unique profiles: 276



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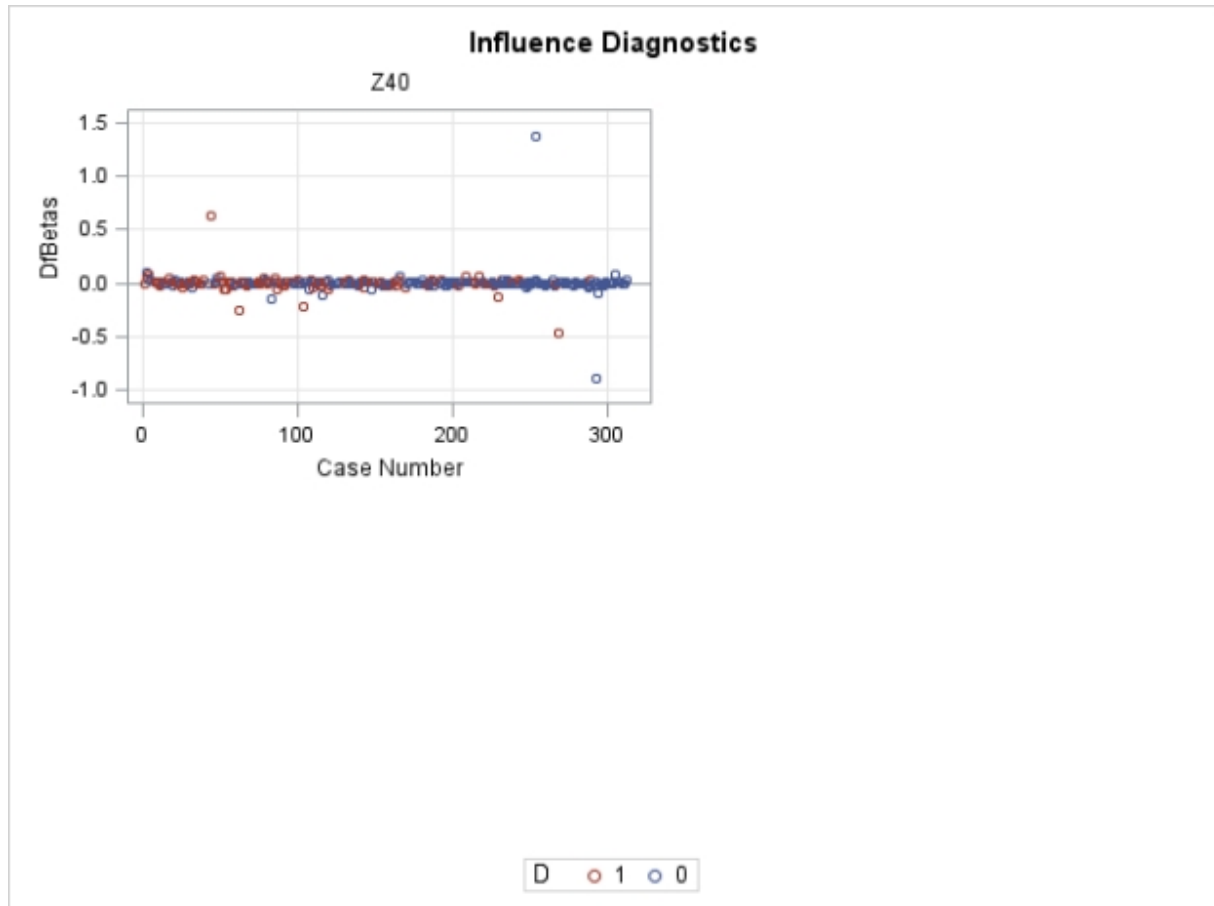
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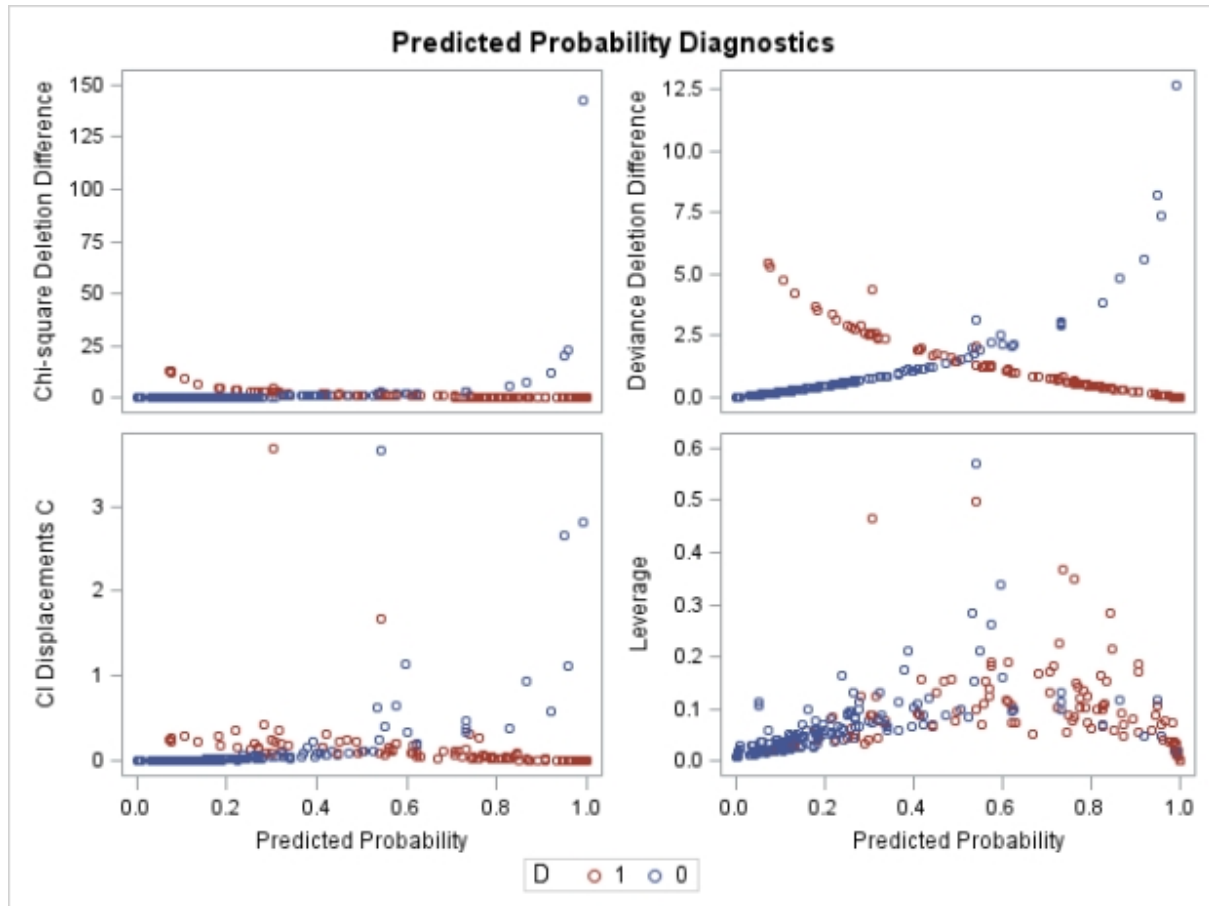
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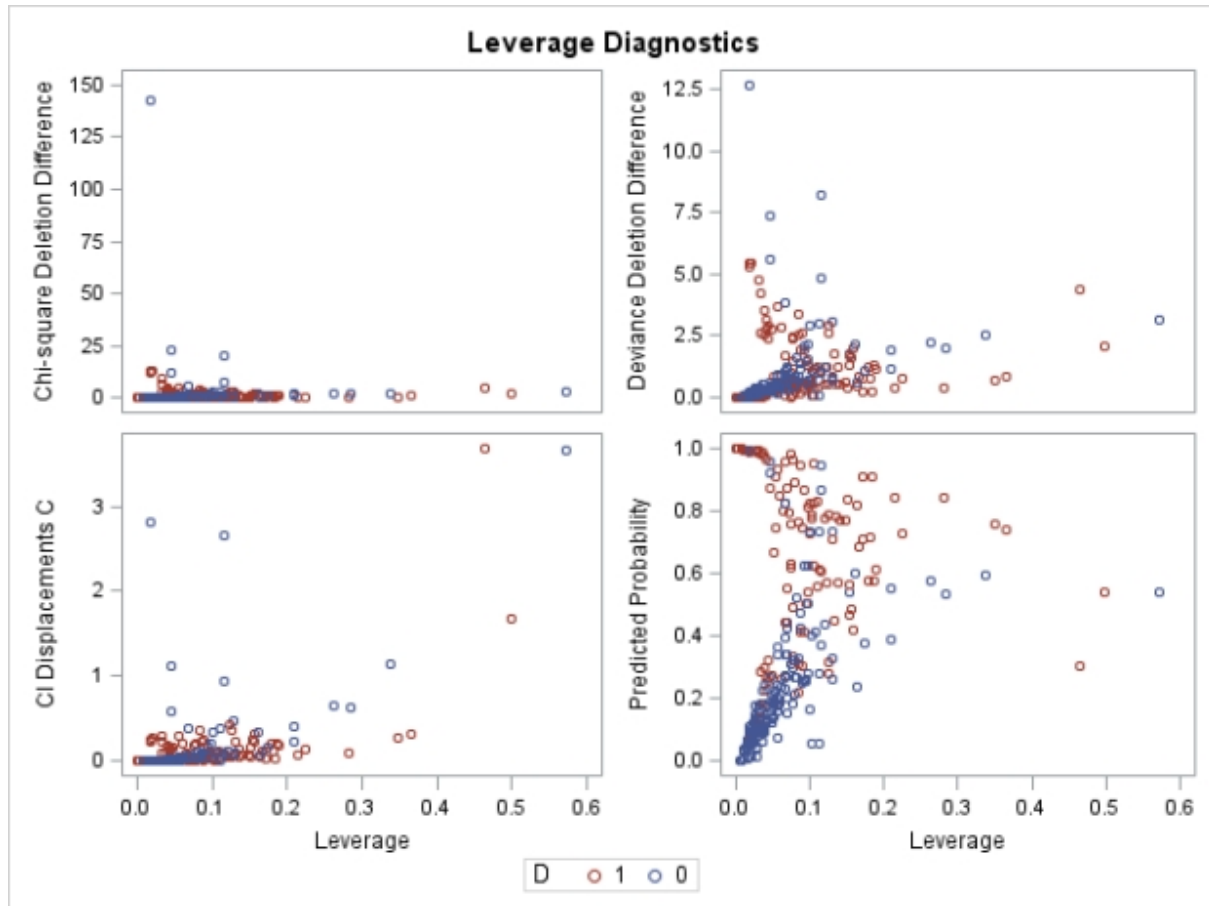
Number of unique profiles: 276



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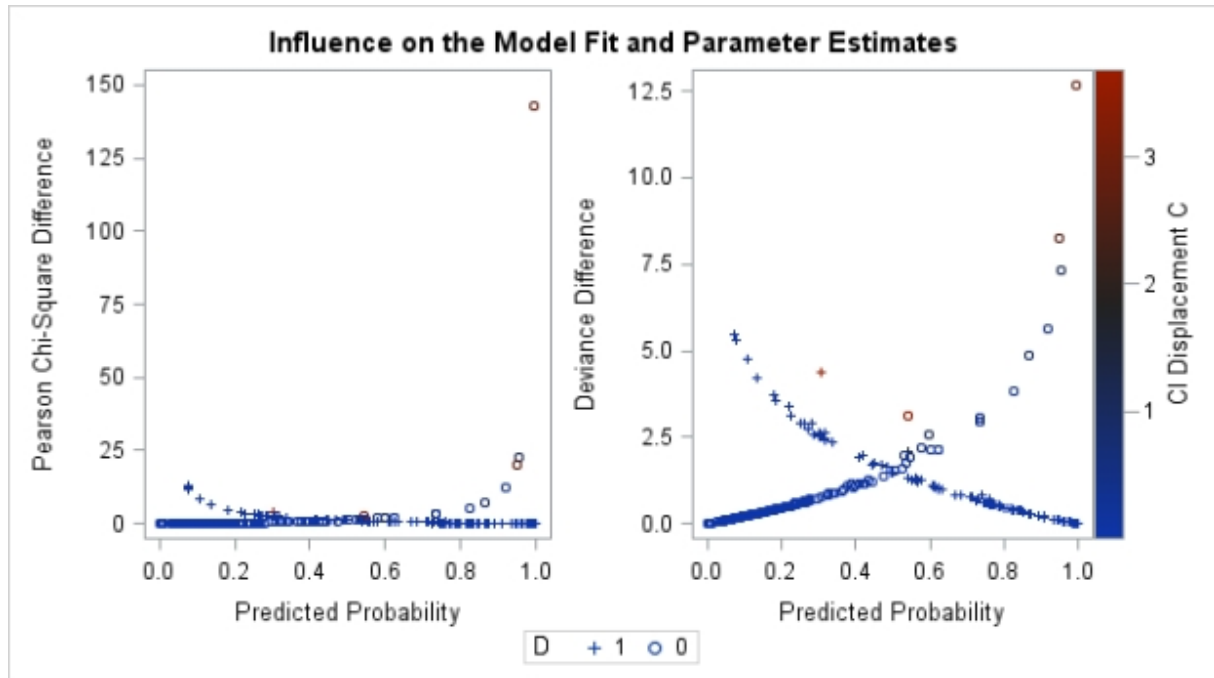
Number of unique profiles: 276



Logistic Regression Results

The LOGISTIC Procedure

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