```
 GET DATA /TYPE=XLSX
  /FILE='F:\MSc\MSc Final\Project\Logistic Regression.xlsx'
  /SHEET=name 'Sheet1'
  /CELLRANGE=full
  /READNAMES=on
  /ASSUMEDSTRWIDTH=32767.
EXECUTE.
DATASET NAME DataSet1 WINDOW=FRONT.
LOGISTIC REGRESSION VARIABLES TSH
  /METHOD=FSTEP(LR) AgeGroup Gender EatingHabit Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q
  /CONTRAST (AgeGroup)=Indicator
  /CONTRAST (Gender)=Indicator
  /CONTRAST (EatingHabit)=Indicator
  /CONTRAST (Q1)=Indicator
  /CONTRAST (Q2)=Indicator
  /CONTRAST (Q3)=Indicator
  /CONTRAST (Q4)=Indicator
  /CONTRAST (Q5)=Indicator
  /CONTRAST (Q6)=Indicator
  /CONTRAST (Q7)=Indicator
  /CONTRAST (Q8)=Indicator
  /CONTRAST (Q9)=Indicator
  /CONTRAST (Q10)=Indicator
  /CONTRAST (Q11)=Indicator
  /CONTRAST (Q12)=Indicator
  /CONTRAST (Q13)=Indicator
  /CONTRAST (Q14)=Indicator
  /CONTRAST (Q15)=Indicator
  /CONTRAST (Q16)=Indicator
  /CONTRAST (Q29)=Indicator
  /CONTRAST (Q30)=Indicator
  /CONTRAST (Q31)=Indicator
  /CONTRAST (Q32)=Indicator
  /CONTRAST (Q34)=Indicator
  /CONTRAST (Q36)=Indicator
  /CONTRAST (Q38)=Indicator
  /CONTRAST (B12)=Indicator
  /CRITERIA=PIN(.05) POUT(.10) ITERATE(20) CUT(.5).
```

Logistic Regression

Notes

Output Created		26-MAY-2020 21:44:58
Comments		
Input	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	63
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing

Notes

Syntax	LOGISTIC REGRESSION VARIABLES TSH /METHOD=FSTEP(LR) AgeGroup Gender EatingHabit Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q29 Q30 Q31 Q32 Q34 Q36 Q38 B12 /CONTRAST (AgeGroup) =Indicator /CONTRAST (Gender) =Indicator /CONTRAST (EatingHabit)=Indicator /CONTRAST (Q1) =Indicator /CONTRAST (Q2) =Indicator /CONTRAST (Q3) =Indicator /CONTRAST (Q4) =Indicator /CONTRAST (Q5) =Indicator /CONTRAST (Q6) =Indicator /CONTRAST (Q7) =Indicator /CONTRAST (Q8) =Indicator /CONTRAST (Q9) =Indicator /CONTRAST (Q10) =Indicator /CONTRAST (Q11) =Indicator /CONTRAST (Q12) =Indicator /CONTRAST (Q13) =Indicator /CONTRAST (Q14) =Indicator /CONTRAST (Q15) =Indicator /CONTRAST (Q16) =Indicator /CONTRAST (Q29) =Indicator /CONTRAST (Q30) =Indicator /CONTRAST (Q31) =Indicator /CONTRAST (Q32) =Indicator /CONTRAST (Q34) =Indicator /CONTRAST (Q36) =Indicator /CONTRAST (Q38) =Indicator /CONTRAST (B12)

Notes

Resources	Processor Time	00:00:00.08
	Elapsed Time	00:00:00.10

[DataSet1]

Warnings

Text: EatingHabit Command: LOGISTIC REGRESSION
This procedure cannot use string variables longer than 8 bytes.
The values will be truncated.

Case Processing Summary

Unweighted Cases[a]		N	Percent
Selected Cases	Included in Analysis	31	49.2
	Missing Cases	32	50.8
	Total	63	100.0
Unselected Cases		0	.0
Total		63	100.0

a. If weight is in effect, see classification table for the total number of cases.

Dependent Variable Encoding

Original Value	Internal Value
0	0
1	1

Categorical Variables Codings

			Parameter coding		
		Frequency	(1)	(2)	(3)
Age Group	11 to 30	3	1.000	.000	.000
	31 to 50	11	.000	1.000	.000
	51 to 70	16	.000	.000	1.000
	71 to 90	1	.000	.000	.000
Eating Habit	Eggetari	1	1.000	.000	
	Non - Ve	7	.000	1.000	
	Vegetari	23	.000	.000	
Q9	0	16	1.000		
	1	15	.000		
Q8	0	19	1.000		
	1	12	.000		
Q7	0	18	1.000		
	1	13	.000		
Q6	0	24	1.000		
	1	7	.000		
Q5	0	18	1.000		
	1	13	.000		
Q4	0	14	1.000		
	1	17	.000		
Q3	0	22	1.000		
	1	9	.000		
Q2	0	24	1.000		
	1	7	.000		
Q1	0	15	1.000		
	1	16	.000		
Gender	Female	22	1.000		
	Male	9	.000		
Q10	0	17	1.000		
	1	14	.000		
B12	0	24	1.000		
	1	7	.000		
Q12	0	24	1.000		
	1	7	.000		
Q38	0	23	1.000		
	1	8	.000		
Q36	0	27	1.000		
	1	4	.000		
Q34	0	10	1.000		
	1	21	.000		
Q32	0	28	1.000		
	1	3	.000		

Categorical Variables Codings

		Frequency	Parameter coding (1)	(2)	(3)
Q31	0	15	1.000		
	1	16	.000		
Q30	0	20	1.000		
	1	11	.000		
Q29	0	24	1.000		
	1	7	.000		
Q13	0	9	1.000		
	1	22	.000		
Q14	0	7	1.000		
	1	24	.000		
Q15	0	23	1.000		
	1	8	.000		
Q16	0	21	1.000		
	1	10	.000		
Q11	0	14	1.000		
	1	17	.000		

Block 0: Beginning Block

Classification Table[a,b]

	Observed		Predicted TSH 0	TSH 1	Percentage Correct
Step 0	TSH	0	25	0	100.0
		1	6	0	.0
	Overall Percentage				80.6

a. Constant is included in the model.

b. The cut value is .500

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 0	Constant	-1.427	.455	9.855	1	.002	.240

Variables not in the Equation

			Score	df	Sig.
Step 0	Variables	AgeGroup	1.406	3	.704
		AgeGroup(1)	.797	1	.372
		AgeGroup(2)	.685	1	.408
		AgeGroup(3)	.008	1	.930
		Gender(1)	.552	1	.457
		EatingHabit	.439	2	.803
		EatingHabit(1)	.248	1	.618
		EatingHabit(2)	.149	1	.700
		Q1(1)	2.998	1	.083
		Q2(1)	3.200	1	.074
		Q3(1)	5.114	1	.024
		Q4(1)	.420	1	.517
		Q5(1)	.199	1	.656
		Q6(1)	3.200	1	.074
		Q7(1)	.199	1	.656
		Q8(1)	.400	1	.527
		Q9(1)	.008	1	.930
		Q10(1)	.070	1	.791
		Q11(1)	.070	1	.791
		Q12(1)	.149	1	.700
		Q13(1)	.552	1	.457
		Q14(1)	.149	1	.700
		Q15(1)	.325	1	.569
		Q16(1)	1.072	1	.301
		Q29(1)	.492	1	.483
		Q30(1)	3.160	1	.075
		Q31(1)	.008	1	.930
		Q32(1)	.797	1	.372
		Q34(1)	.828	1	.363
		Q36(1)	1.102	1	.294
		Q38(1)	.325	1	.569
		B12(1)	.492	1	.483
	Overall Statistics		31.000	30	.415

Block 1: Method = Forward Stepwise (Likelihood Ratio)

Omnibus Tests of Model Coefficients

		Chi-square	df	Sig.
Step 1	Step	4.693	1	.030
	Block	4.693	1	.030
	Model	4.693	1	.030

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	25.769[a]	.140	.225

a. Estimation terminated at iteration number 5 because parameter estimates changed by less than .001.

Classification Table[a]

Observed			Predicted		
			TSH		Percentage Correct
			0	1	
Step 1	TSH	0	25	0	100.0
		1	6	0	.0
	Overall Percentage				80.6

a. The cut value is .500

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 1[a]	Q3(1)	-2.079	1.000	4.324	1	.038	.125
	Constant	-.223	.671	.111	1	.739	.800

a. Variable(s) entered on step 1: Q3.

Model if Term Removed

Variable		Model Log Likelihood	Change in -2 Log Likelihood	df	Sig. of the Change
Step 1	Q3	-15.231	4.693	1	.030

Variables not in the Equation

			Score	df	Sig.
Step 1	Variables	AgeGroup	1.212	3	.750
		AgeGroup(1)	1.061	1	.303
		AgeGroup(2)	.059	1	.808
		AgeGroup(3)	.252	1	.616
		Gender(1)	.354	1	.552
		EatingHabit	.295	2	.863
		EatingHabit(1)	.105	1	.746
		EatingHabit(2)	.168	1	.682
		Q1(1)	.335	1	.563
		Q2(1)	.508	1	.476
		Q4(1)	.117	1	.732
		Q5(1)	.165	1	.684
		Q6(1)	2.221	1	.136
		Q7(1)	.003	1	.959
		Q8(1)	.253	1	.615
		Q9(1)	.252	1	.616
		Q10(1)	.469	1	.494
		Q11(1)	.098	1	.754
		Q12(1)	.000	1	.989
		Q13(1)	.046	1	.830
		Q14(1)	.335	1	.563
		Q15(1)	.763	1	.382
		Q16(1)	.120	1	.729
		Q29(1)	.234	1	.629
		Q30(1)	2.667	1	.102
		Q31(1)	.351	1	.554
		Q32(1)	1.061	1	.303
		Q34(1)	1.926	1	.165
		Q36(1)	2.145	1	.143
		Q38(1)	.253	1	.615
		B12(1)	1.759	1	.185
	Overall Statistics		31.000	29	.365