DESCRIPTIVES VARIABLES-psqi gpa /STATISTICS-MEAN STDDEV MIN MAX.

Descriptives

E:\clients\Sleep Quality.sav

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Pittsburgh Sleep Quality Index (PSQI)	100	.9	14.9	7.548	2.9174
Grade Point Average (GPA)	100	2.28	4.00	3.3085	.36931
Valid N (listwise)	100				

FREQUENCIES VARIABLES=gender major caffeine
/ORDER=ANALYSIS.

Frequencies

Statistics

		Gender	Study Major	Caffeine Consumption Level
N	Valid	100	100	100
	Missing	0	0	0

Frequency Table

Gender

			Frequency	Percent	Valid Percent	Cumulative Percent
Ī	Valid	Male	48	48.0	48.0	48.0
	Female	52	52.0	52.0	100.0	
		Total	100	100.0	100.0	

Study Major

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.01	1	1.0	1.0	1.0
Valid	1.03	1	1.0	1.0	2.0
	1.04	1	1.0	1.0	3.0
	1.04	1	1.0	1.0	4.0
	1.05	1	1.0	1.0	5.0
	1.09	1	1.0	1.0	6.0
	1.11	1	1.0	1.0	7.0
	1.14	1	1.0	1.0	8.0
	1.14	1	1.0	1.0	9.0
	1.15	1	1.0	1.0	10.0
	1.15	1	1.0	1.0	11.0
	1.16	1	1.0	1.0	12.0
	1.22	1	1.0	1.0	13.0
	1.29	1	1.0	1.0	14.0
	1.32	1	1.0	1.0	15.0
	1.32	1	1.0	1.0	16.0
	1.36	1	1.0	1.0	17.0
	1.36	1	1.0	1.0	18.0
	1.38	1	1.0	1.0	19.0
	1.41	1	1.0	1.0	20.0
	1.43	1	1.0	1.0	21.0
	1.43	1	1.0	1.0	22.0
	1.46	1	1.0	1.0	23.0
	1.51	1	1.0	1.0	24.0
	1.51	1	1.0	1.0	25.0
	1.52	1	1.0	1.0	26.0
	1.53	1	1.0	1.0	27.0
	1.56	1	1.0	1.0	28.0
	1.59	1	1.0	1.0	29.0
	1.61	1	1.0	1.0	30.0
	1.64	1	1.0	1.0	31.0
	1.68	1	1.0	1.0	32.0
	1.68	1	1.0	1.0	33.0
	1.68	1	1.0	1.0	34.0
	1.69	1	1.0	1.0	35.0

Study Major

		ruuy maj		Cumulative
	Frequency	Percent	Valid Percent	Percent
1.70	1	1.0	1.0	36.0
1.73	1	1.0	1.0	37.0
1.74	1	1.0	1.0	38.0
1.78	1	1.0	1.0	39.0
1.78	1	1.0	1.0	40.0
1.79	1	1.0	1.0	41.0
1.81	1	1.0	1.0	42.0
1.84	1	1.0	1.0	43.0
2.02	1	1.0	1.0	44.0
2.02	1	1.0	1.0	45.0
2.04	1	1.0	1.0	46.0
2.07	1	1.0	1.0	47.0
2.11	1	1.0	1.0	48.0
2.18	1	1.0	1.0	49.0
2.22	1	1.0	1.0	50.0
2.23	1	1.0	1.0	51.0
2.29	1	1.0	1.0	52.0
2.31	1	1.0	1.0	53.0
2.31	1	1.0	1.0	54.0
2.33	1	1.0	1.0	55.0
2.35	1	1.0	1.0	56.0
2.39	1	1.0	1.0	57.0
2.40	1	1.0	1.0	58.0
2.41	1	1.0	1.0	59.0
2.42	1	1.0	1.0	60.0
2.43	1	1.0	1.0	61.0
2.45	1	1.0	1.0	62.0
2.45	1	1.0	1.0	63.0
2.47	1	1.0	1.0	64.0
2.56	1	1.0	1.0	65.0
2.58	1	1.0	1.0	66.0
2.59	1	1.0	1.0	67.0
2.62	1	1.0	1.0	68.0
2.68	1	1.0	1.0	69.0
2.71	1	1.0	1.0	70.0

Study Major

2.87 1 1.0 1.0 72 2.93 1 1.0 1.0 73 2.99 1 1.0 1.0 72 3.00 1 1.0 1.0 76 3.05 1 1.0 1.0 76 3.15 1 1.0 1.0 77 3.15 1 1.0 1.0 78 3.22 1 1.0 1.0 80 3.33 1 1.0 1.0 80 3.34 1 1.0 1.0 81 3.34 1 1.0 1.0 82 3.45 1 1.0 1.0 82 3.49 1 1.0 1.0 85 3.52 1 1.0 1.0 86 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	
2.87 1 1.0 1.0 72 2.93 1 1.0 1.0 73 2.99 1 1.0 1.0 72 3.00 1 1.0 1.0 76 3.05 1 1.0 1.0 76 3.15 1 1.0 1.0 77 3.15 1 1.0 1.0 78 3.22 1 1.0 1.0 80 3.33 1 1.0 1.0 80 3.34 1 1.0 1.0 81 3.34 1 1.0 1.0 82 3.45 1 1.0 1.0 82 3.49 1 1.0 1.0 85 3.52 1 1.0 1.0 86 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	
2.93 1 1.0 1.0 73 2.99 1 1.0 1.0 74 3.00 1 1.0 1.0 75 3.05 1 1.0 1.0 76 3.15 1 1.0 1.0 77 3.15 1 1.0 1.0 78 3.22 1 1.0 1.0 80 3.34 1 1.0 1.0 80 3.34 1 1.0 1.0 81 3.45 1 1.0 1.0 82 3.45 1 1.0 1.0 82 3.52 1 1.0 1.0 86 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	1.0
2.99 1 1.0 1.0 72 3.00 1 1.0 1.0 75 3.05 1 1.0 1.0 76 3.15 1 1.0 1.0 77 3.15 1 1.0 1.0 78 3.22 1 1.0 1.0 80 3.33 1 1.0 1.0 80 3.34 1 1.0 1.0 81 3.45 1 1.0 1.0 82 3.49 1 1.0 1.0 85 3.52 1 1.0 1.0 86 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	2.0
3.00 1 1.0 1.0 75 3.05 1 1.0 1.0 76 3.15 1 1.0 1.0 77 3.15 1 1.0 1.0 78 3.22 1 1.0 1.0 80 3.33 1 1.0 1.0 80 3.34 1 1.0 1.0 81 3.45 1 1.0 1.0 82 3.49 1 1.0 1.0 82 3.52 1 1.0 1.0 85 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	3.0
3.05 1 1.0 1.0 76 3.15 1 1.0 1.0 77 3.15 1 1.0 1.0 78 3.22 1 1.0 1.0 80 3.33 1 1.0 1.0 80 3.34 1 1.0 1.0 81 3.34 1 1.0 1.0 82 3.45 1 1.0 1.0 83 3.49 1 1.0 1.0 85 3.52 1 1.0 1.0 86 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	1.0
3.15 1 1.0 1.0 77 3.15 1 1.0 1.0 78 3.22 1 1.0 1.0 79 3.33 1 1.0 1.0 80 3.34 1 1.0 1.0 81 3.34 1 1.0 1.0 82 3.45 1 1.0 1.0 83 3.49 1 1.0 1.0 85 3.52 1 1.0 1.0 86 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	5.0
3.15 1 1.0 1.0 78 3.22 1 1.0 1.0 79 3.33 1 1.0 1.0 80 3.34 1 1.0 1.0 81 3.34 1 1.0 1.0 82 3.45 1 1.0 1.0 83 3.49 1 1.0 1.0 84 3.52 1 1.0 1.0 85 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	6.0
3.22 1 1.0 1.0 79 3.33 1 1.0 1.0 80 3.34 1 1.0 1.0 81 3.34 1 1.0 1.0 82 3.45 1 1.0 1.0 83 3.49 1 1.0 1.0 84 3.52 1 1.0 1.0 85 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	7.0
3.33 1 1.0 1.0 80 3.34 1 1.0 1.0 81 3.34 1 1.0 1.0 82 3.45 1 1.0 1.0 83 3.49 1 1.0 1.0 82 3.52 1 1.0 1.0 85 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	3.0
3.34 1 1.0 1.0 81 3.34 1 1.0 1.0 82 3.45 1 1.0 1.0 83 3.49 1 1.0 1.0 82 3.52 1 1.0 1.0 85 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	9.0
3.34 1 1.0 1.0 82 3.45 1 1.0 1.0 83 3.49 1 1.0 1.0 84 3.52 1 1.0 1.0 85 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	0.0
3.45 1 1.0 1.0 83 3.49 1 1.0 1.0 82 3.52 1 1.0 1.0 85 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	1.0
3.49 1 1.0 1.0 82 3.52 1 1.0 1.0 85 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	2.0
3.52 1 1.0 1.0 85 3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	3.0
3.53 1 1.0 1.0 86 3.60 1 1.0 1.0 87	1.0
3.60 1 1.0 1.0 87	5.0
	6.0
	7.0
3.60 1 1.0 1.0 88	3.0
3.71 1 1.0 1.0 89	9.0
3.71 1 1.0 1.0 90	0.0
3.75 1 1.0 1.0 91	1.0
3.78 1 1.0 1.0 92	2.0
3.79 1 1.0 1.0 93	3.0
3.81 1 1.0 1.0 94	1.0
3.81 1 1.0 1.0 95	5.0
3.86 1 1.0 1.0 96	6.0
3.89 1 1.0 1.0 97	7.0
3.91 1 1.0 1.0 98	3.0
3.92 1 1.0 1.0 99	9.0
3.95 1 1.0 1.0 100	0.0
Total 100 100.0 100.0	

Caffeine Consumption Level

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	1	1.0	1.0	1.0
	1.02	1	1.0	1.0	2.0
	1.03	1	1.0	1.0	3.0
	1.13	1	1.0	1.0	4.0
	1.13	1	1.0	1.0	5.0
	1.19	1	1.0	1.0	6.0
	1.19	1	1.0	1.0	7.0
	1.26	1	1.0	1.0	8.0
	1.28	1	1.0	1.0	9.0
	1.32	1	1.0	1.0	10.0
	1.35	1	1.0	1.0	11.0
	1.44	1	1.0	1.0	12.0
	1.44	1	1.0	1.0	13.0
	1.47	1	1.0	1.0	14.0
	1.47	1	1.0	1.0	15.0
	1.50	1	1.0	1.0	16.0
	1.55	1	1.0	1.0	17.0
	1.56	1	1.0	1.0	18.0
	1.63	1	1.0	1.0	19.0
	1.68	1	1.0	1.0	20.0
	1.75	1	1.0	1.0	21.0
	1.76	1	1.0	1.0	22.0
	1.80	1	1.0	1.0	23.0
	1.82	1	1.0	1.0	24.0
	1.84	1	1.0	1.0	25.0
	1.93	1	1.0	1.0	26.0
	1.94	1	1.0	1.0	27.0
	1.95	1	1.0	1.0	28.0
	1.99	1	1.0	1.0	29.0
	2.10	1	1.0	1.0	30.0
	2.12	1	1.0	1.0	31.0
	2.15	1	1.0	1.0	32.0
	2.15	1	1.0	1.0	33.0
	2.15	1	1.0	1.0	34.0
	2.18	1	1.0	1.0	35.0

Caffeine Consumption Level

	Frequency	Percent	Valid Percent	Cumulative Percent
2.21	1	1.0	1.0	36.0
2.22	1	1.0	1.0	37.0
2.27	1	1.0	1.0	38.0
2.32	1	1.0	1.0	39.0
2.33	1	1.0	1.0	40.0
2.33	1	1.0	1.0	41.0
2.38	1	1.0	1.0	42.0
2.38	1	1.0	1.0	43.0
2.39	1	1.0	1.0	44.0
2.43	1	1.0	1.0	45.0
2.46	1	1.0	1.0	46.0
2.46	1	1.0	1.0	47.0
2.51	1	1.0	1.0	48.0
2.52	1	1.0	1.0	49.0
2.53	1	1.0	1.0	50.0
2.54	1	1.0	1.0	51.0
2.58	1	1.0	1.0	52.0
2.59	1	1.0	1.0	53.0
2.59	1	1.0	1.0	54.0
2.60	1	1.0	1.0	55.0
2.62	1	1.0	1.0	56.0
2.68	1	1.0	1.0	57.0
2.75	1	1.0	1.0	58.0
2.76	1	1.0	1.0	59.0
2.85	1	1.0	1.0	60.0
2.86	1	1.0	1.0	61.0
2.86	1	1.0	1.0	62.0
2.88	1	1.0	1.0	63.0
2.93	1	1.0	1.0	64.0
2.93	1	1.0	1.0	65.0
2.96	1	1.0	1.0	66.0
2.97	1	1.0	1.0	67.0
3.01	1	1.0	1.0	68.0
3.04	1	1.0	1.0	69.0
3.05	1	1.0	1.0	70.0

Caffeine Consumption Level

	Frequency	Percent	Valid Percent	Cumulative Percent
3.06	1	1.0	1.0	71.0
3.10	1	1.0	1.0	72.0
3.11	1	1.0	1.0	73.0
3.12	1	1.0	1.0	74.0
3.12	1	1.0	1.0	75.0
3.17	1	1.0	1.0	76.0
3.20	1	1.0	1.0	77.0
3.20	1	1.0	1.0	78.0
3.26	1	1.0	1.0	79.0
3.28	1	1.0	1.0	80.0
3.44	1	1.0	1.0	81.0
3.47	1	1.0	1.0	82.0
3.47	1	1.0	1.0	83.0
3.52	1	1.0	1.0	84.0
3.52	1	1.0	1.0	85.0
3.56	1	1.0	1.0	86.0
3.61	1	1.0	1.0	87.0
3.65	1	1.0	1.0	88.0
3.80	1	1.0	1.0	89.0
3.82	1	1.0	1.0	90.0
3.82	1	1.0	1.0	91.0
3.84	1	1.0	1.0	92.0
3.85	1	1.0	1.0	93.0
3.86	1	1.0	1.0	94.0
3.87	1	1.0	1.0	95.0
3.87	1	1.0	1.0	96.0
3.91	1	1.0	1.0	97.0
3.92	1	1.0	1.0	98.0
3.93	1	1.0	1.0	99.0
3.99	1	1.0	1.0	100.0
Total	100	100.0	100.0	

Correlations

Correlations

		Gender	Study Major	Pittsburgh Sleep Quality Index (PSQI)
Gender	Pearson Correlation	1	038	.010
	Sig. (2-tailed)		.705	.924
	N	100	100	100
Study Major	Pearson Correlation	038	1	.188
	Sig. (2-tailed)	.705		.060
	N	100	100	100
Pittsburgh Sleep Quality	Pearson Correlation	.010	.188	1
Index (PSQI)	Sig. (2-tailed)	.924	.060	
	N	100	100	100
Caffeine Consumption	Pearson Correlation	.017	091	089
Level	Sig. (2-tailed)	.868	.365	.380
	N	100	100	100
Grade Point Average (GPA)	Pearson Correlation	009	164	595**
	Sig. (2-tailed)	.926	.103	.000
	N	100	100	100

Correlations

		Caffeine Consumption Level	Grade Point Average (GPA)
Gender	Pearson Correlation	.017	009
	Sig. (2-tailed)	.868	.926
	N	100	100
Study Major	Pearson Correlation	091	164
	Sig. (2-tailed)	.365	.103
	N	100	100
Pittsburgh Sleep Quality	Pearson Correlation	089	595**
Index (PSQI)	Sig. (2-tailed)	.380	.000
	N	100	100
Caffeine Consumption	Pearson Correlation	1	.007
Level	Sig. (2-tailed)		.945
	N	100	100
Grade Point Average (GPA)	Pearson Correlation	.007	1
	Sig. (2-tailed)	.945	
	N	100	100

**. Correlation is significant at the 0.01 level (2-tailed).

Regression

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Study Major, Gender ^b		Enter

- a. Dependent Variable: Grade Point Average (GPA)
- b. All requested variables entered.

Model Summary

					Cha	nge Statistics	
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	R Square Change	F Change	df1
1	.165 ^a	.027	.007	.36799	.027	1.355	2

Model Summary

Change Statistics

Model	df2	Sig. F Change
1	97	.263

a. Predictors: (Constant), Study Major, Gender

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.367	2	.183	1.355	.263 ^b
	Residual	13.135	97	.135		
	Total	13.502	99			

- a. Dependent Variable: Grade Point Average (GPA)
- b. Predictors: (Constant), Study Major, Gender

Coefficients^a

		Unstandardize	ed Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	3.468	.109		31.866	.000
	Gender	012	.074	016	156	.876
	Study Major	067	.041	165	-1.643	.104

a. Dependent Variable: Grade Point Average (GPA)

Regression

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Study Major, Gender ^b		Enter
2	Pittsburgh Sleep Quality Index (PSQI) ^b		Enter

a. Dependent Variable: Grade Point Average (GPA)

Model Summary

					Cha	nge Statistics	
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	R Square Change	F Change	df1
1	.165 ^a	.027	.007	.36799	.027	1.355	2
2	.598 ^b	.357	.337	.30066	.330	49.311	1

Model Summary

Change Statistics

Model	df2	Sig. F Change
1	97	.263
2	96	.000

a. Predictors: (Constant), Study Major, Gender

b. All requested variables entered.

b. Predictors: (Constant), Study Major, Gender, Pittsburgh Sleep Quality Index (PSQI)

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.367	2	.183	1.355	.263 ^b
	Residual	13.135	97	.135		
	Total	13.502	99			
2	Regression	4.824	3	1.608	17.790	.000 ^c
	Residual	8.678	96	.090		
	Total	13.502	99			

a. Dependent Variable: Grade Point Average (GPA)

b. Predictors: (Constant), Study Major, Gender

c. Predictors: (Constant), Study Major, Gender, Pittsburgh Sleep Quality Index (PSQI)

Coefficients^a

		Unstandardized Coefficients		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	3.468	.109		31.866	.000
	Gender	012	.074	016	156	.876
	Study Major	067	.041	165	-1.643	.104
2	(Constant)	3.920	.110		35.711	.000
	Gender	004	.060	006	071	.944
	Study Major	022	.034	054	648	.518
	Pittsburgh Sleep Quality Index (PSQI)	074	.011	585	-7.022	.000

a. Dependent Variable: Grade Point Average (GPA)

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics Tolerance
1	Pittsburgh Sleep Quality Index (PSQI)	585 ^b	-7.022	.000	583	.964

a. Dependent Variable: Grade Point Average (GPA)

b. Predictors in the Model: (Constant), Study Major, Gender

Regression

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Study Major, Gender ^b		Enter
2	Pittsburgh Sleep Quality Index (PSQI) ^b		Enter
3	Caffeine Consumption Level ^b		Enter

- a. Dependent Variable: Grade Point Average (GPA)
- b. All requested variables entered.

Model Summary

					Change Statistics		
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	R Square Change	F Change	df1
1	.165 ^a	.027	.007	.36799	.027	1.355	2
2	.598 ^b	.357	.337	.30066	.330	49.311	1
3	.600 ^c	.360	.333	.30164	.003	.374	1

Model Summary

Change Statistics

Model	df2	Sig. F Change		
1	97	.263		
2	96	.000		
3	95	.542		

- a. Predictors: (Constant), Study Major, Gender
- b. Predictors: (Constant), Study Major, Gender, Pittsburgh Sleep Quality Index (PSQI)
- c. Predictors: (Constant), Study Major, Gender, Pittsburgh Sleep Quality Index (PSQI), Caffeine Consumption Level

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.367	2	.183	1.355	.263 ^b
	Residual	13.135	97	.135		
	Total	13.502	99			
2	Regression	4.824	3	1.608	17.790	.000 ^c
	Residual	8.678	96	.090		
	Total	13.502	99			
3	Regression	4.858	4	1.215	13.349	.000 ^d
	Residual	8.644	95	.091		
	Total	13.502	99			

- a. Dependent Variable: Grade Point Average (GPA)
- b. Predictors: (Constant), Study Major, Gender
- c. Predictors: (Constant), Study Major, Gender, Pittsburgh Sleep Quality Index (PSQI)
- d. Predictors: (Constant), Study Major, Gender, Pittsburgh Sleep Quality Index (PSQI), Caffeine Consumption Level

Coefficients^a

		Unstandardized Coefficients		Standardized Coefficients			
Model		В	Std. Error	Beta	t	Sig.	
1	(Constant)	3.468	.109		31.866	.000	
	Gender	012	.074	016	156	.876	
	Study Major	067	.041	165	-1.643	.104	
2	(Constant)	3.920	.110		35.711	.000	
	Gender	004	.060	006	071	.944	
	Study Major	022	.034	054	648	.518	
	Pittsburgh Sleep Quality Index (PSQI)	074	.011	585	-7.022	.000	
3	(Constant)	3.983	.151		26.393	.000	
	Gender	004	.060	005	061	.951	
	Study Major	024	.034	058	690	.492	
	Pittsburgh Sleep Quality Index (PSQI)	075	.011	589	-7.025	.000	
	Caffeine Consumption Level	022	.036	051	611	.542	

a. Dependent Variable: Grade Point Average (GPA)

Excluded Variables^a

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics Tolerance
1	Pittsburgh Sleep Quality Index (PSQI)	585 ^b	-7.022	.000	583	.964
	Caffeine Consumption Level	008 ^b	078	.938	008	.991
2	Caffeine Consumption Level	051 ^c	611	.542	063	.986

- a. Dependent Variable: Grade Point Average (GPA)
- b. Predictors in the Model: (Constant), Study Major, Gender
- c. Predictors in the Model: (Constant), Study Major, Gender, Pittsburgh Sleep Quality Index (PSQI)

GRAPH

/SCATTERPLOT(BIVAR)=psqi WITH gpa /MISSING=LISTWISE.

Graph

