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Polychoric Correlation

Polychoric Correlation
Import data

Ordinal Variable Frequency Checks

```
>Warning # 2004.  Command name: SUBTITLE  
>The subtitle given exceeds 60 characters in length.  The first 60 characters  
>will be used.
```

Ordinal Variable Frequency Checks
 Polychoric correlation is designed for ordered categorical v

Frequencies

[PolychoricData]

Statistics

		Mother education ordered category	Father education ordered category	Travel time ordered category	Study time ordered category	Past class failures ordered count
N	Valid	649	649	649	649	649
	Missing	0	0	0	0	0

Statistics

		Family relationship quality ordered rating	Free time after school ordered rating	Going out ordered rating	Workday alcohol consumption ordered rating	Weekend alcohol consumption ordered rating
N	Valid	649	649	649	649	649
	Missing	0	0	0	0	0

Statistics

		Current health ordered rating
N	Valid	649
	Missing	0

Frequency Table

Mother education ordered category

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	6	.9	.9	.9
	1	143	22.0	22.0	23.0
	2	186	28.7	28.7	51.6
	3	139	21.4	21.4	73.0
	4	175	27.0	27.0	100.0
Total		649	100.0	100.0	

Ordinal Variable Frequency Checks
 Polychoric correlation is designed for ordered categorical v

Father education ordered category

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	7	1.1	1.1	1.1
	1	174	26.8	26.8	27.9
	2	209	32.2	32.2	60.1
	3	131	20.2	20.2	80.3
	4	128	19.7	19.7	100.0
	Total	649	100.0	100.0	

Travel time ordered category

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	366	56.4	56.4	56.4
	2	213	32.8	32.8	89.2
	3	54	8.3	8.3	97.5
	4	16	2.5	2.5	100.0
	Total	649	100.0	100.0	

Study time ordered category

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	212	32.7	32.7	32.7
	2	305	47.0	47.0	79.7
	3	97	14.9	14.9	94.6
	4	35	5.4	5.4	100.0
	Total	649	100.0	100.0	

Ordinal Variable Frequency Checks
 Polychoric correlation is designed for ordered categorical v

Past class failures ordered count

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	549	84.6	84.6	84.6
	1	70	10.8	10.8	95.4
	2	16	2.5	2.5	97.8
	3	14	2.2	2.2	100.0
	Total	649	100.0	100.0	

Family relationship quality ordered rating

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	22	3.4	3.4	3.4
	2	29	4.5	4.5	7.9
	3	101	15.6	15.6	23.4
	4	317	48.8	48.8	72.3
	5	180	27.7	27.7	100.0
	Total	649	100.0	100.0	

Free time after school ordered rating

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	45	6.9	6.9	6.9
	2	107	16.5	16.5	23.4
	3	251	38.7	38.7	62.1
	4	178	27.4	27.4	89.5
	5	68	10.5	10.5	100.0
	Total	649	100.0	100.0	

Ordinal Variable Frequency Checks
 Polychoric correlation is designed for ordered categorical v

Going out ordered rating

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	48	7.4	7.4	7.4
	2	145	22.3	22.3	29.7
	3	205	31.6	31.6	61.3
	4	141	21.7	21.7	83.1
	5	110	16.9	16.9	100.0
	Total	649	100.0	100.0	

Workday alcohol consumption ordered rating

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	451	69.5	69.5	69.5
	2	121	18.6	18.6	88.1
	3	43	6.6	6.6	94.8
	4	17	2.6	2.6	97.4
	5	17	2.6	2.6	100.0
	Total	649	100.0	100.0	

Weekend alcohol consumption ordered rating

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	247	38.1	38.1	38.1
	2	150	23.1	23.1	61.2
	3	120	18.5	18.5	79.7
	4	87	13.4	13.4	93.1
	5	45	6.9	6.9	100.0
	Total	649	100.0	100.0	

Ordinal Variable Frequency Checks
Polychoric correlation is designed for ordered categorical v

Current health ordered rating

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	90	13.9	13.9	13.9
	2	78	12.0	12.0	25.9
	3	124	19.1	19.1	45.0
	4	108	16.6	16.6	61.6
	5	249	38.4	38.4	100.0
	Total		649	100.0	100.0

Observed Rank Correlation Context

```
>Warning # 2004.  Command name: SUBTITLE  
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```

Observed Rank Correlation Context
Spearman correlations are provided as an SPSS-native compari

Nonparametric Correlations

Correlations

			Mother education ordered category	Father education ordered category
Spearman's rho	Mother education ordered category	Correlation Coefficient	1.000	.647**
		Sig. (2-tailed)	.	.000
		N	649	649
	Father education ordered category	Correlation Coefficient	.647**	1.000
		Sig. (2-tailed)	.000	.
		N	649	649
	Travel time ordered category	Correlation Coefficient	-.263**	-.222**
		Sig. (2-tailed)	.000	.000
		N	649	649
	Study time ordered category	Correlation Coefficient	.098*	.069
		Sig. (2-tailed)	.012	.079
		N	649	649
	Past class failures ordered count	Correlation Coefficient	-.208**	-.161**
		Sig. (2-tailed)	.000	.000
		N	649	649
	Family relationship quality ordered rating	Correlation Coefficient	.025	.021
		Sig. (2-tailed)	.524	.588
		N	649	649
	Free time after school ordered rating	Correlation Coefficient	-.028	.000
		Sig. (2-tailed)	.478	.997
		N	649	649
	Going out ordered rating	Correlation Coefficient	.010	.029
		Sig. (2-tailed)	.795	.464
		N	649	649
Workday alcohol consumption ordered rating	Correlation Coefficient	.002	-.005	
	Sig. (2-tailed)	.960	.901	
	N	649	649	

Observed Rank Correlation Context
Spearman correlations are provided as an SPSS-native compari

Correlations

			Travel time ordered category	Study time ordered category
Spearman's rho	Mother education ordered category	Correlation Coefficient	-.263**	.098*
		Sig. (2-tailed)	.000	.012
		N	649	649
	Father education ordered category	Correlation Coefficient	-.222**	.069
		Sig. (2-tailed)	.000	.079
		N	649	649
	Travel time ordered category	Correlation Coefficient	1.000	-.089*
		Sig. (2-tailed)	.	.023
		N	649	649
	Study time ordered category	Correlation Coefficient	-.089*	1.000
		Sig. (2-tailed)	.023	.
		N	649	649
	Past class failures ordered count	Correlation Coefficient	.124**	-.160**
		Sig. (2-tailed)	.002	.000
		N	649	649
	Family relationship quality ordered rating	Correlation Coefficient	-.026	.019
		Sig. (2-tailed)	.514	.622
		N	649	649
	Free time after school ordered rating	Correlation Coefficient	-.001	-.076
		Sig. (2-tailed)	.979	.051
		N	649	649
Going out ordered rating	Correlation Coefficient	.041	-.082*	
	Sig. (2-tailed)	.300	.036	
	N	649	649	
Workday alcohol consumption ordered rating	Correlation Coefficient	.068	-.171**	
	Sig. (2-tailed)	.081	.000	
	N	649	649	

Observed Rank Correlation Context
Spearman correlations are provided as an SPSS-native compari

Correlations

			Past class failures ordered count	Family relationship quality ordered rating
Spearman's rho	Mother education ordered category	Correlation Coefficient	-.208**	.025
		Sig. (2-tailed)	.000	.524
		N	649	649
	Father education ordered category	Correlation Coefficient	-.161**	.021
		Sig. (2-tailed)	.000	.588
		N	649	649
	Travel time ordered category	Correlation Coefficient	.124**	-.026
		Sig. (2-tailed)	.002	.514
		N	649	649
	Study time ordered category	Correlation Coefficient	-.160**	.019
		Sig. (2-tailed)	.000	.622
		N	649	649
	Past class failures ordered count	Correlation Coefficient	1.000	-.059
		Sig. (2-tailed)	.	.135
		N	649	649
	Family relationship quality ordered rating	Correlation Coefficient	-.059	1.000
		Sig. (2-tailed)	.135	.
		N	649	649
	Free time after school ordered rating	Correlation Coefficient	.100*	.144**
		Sig. (2-tailed)	.010	.000
		N	649	649
	Going out ordered rating	Correlation Coefficient	.042	.088*
		Sig. (2-tailed)	.289	.025
		N	649	649
Workday alcohol consumption ordered rating	Correlation Coefficient	.109**	-.098*	
	Sig. (2-tailed)	.005	.013	
	N	649	649	

Observed Rank Correlation Context
Spearman correlations are provided as an SPSS-native compari

Correlations

			Free time after school ordered rating	Going out ordered rating
Spearman's rho	Mother education ordered category	Correlation Coefficient	-.028	.010
		Sig. (2-tailed)	.478	.795
		N	649	649
	Father education ordered category	Correlation Coefficient	.000	.029
		Sig. (2-tailed)	.997	.464
		N	649	649
	Travel time ordered category	Correlation Coefficient	-.001	.041
		Sig. (2-tailed)	.979	.300
		N	649	649
	Study time ordered category	Correlation Coefficient	-.076	-.082 [*]
		Sig. (2-tailed)	.051	.036
		N	649	649
	Past class failures ordered count	Correlation Coefficient	.100 [*]	.042
		Sig. (2-tailed)	.010	.289
		N	649	649
	Family relationship quality ordered rating	Correlation Coefficient	.144 ^{**}	.088 [*]
		Sig. (2-tailed)	.000	.025
		N	649	649
	Free time after school ordered rating	Correlation Coefficient	1.000	.354 ^{**}
		Sig. (2-tailed)	.	.000
		N	649	649
Going out ordered rating	Correlation Coefficient	.354 ^{**}	1.000	
	Sig. (2-tailed)	.000	.	
	N	649	649	
Workday alcohol consumption ordered rating	Correlation Coefficient	.127 ^{**}	.234 ^{**}	
	Sig. (2-tailed)	.001	.000	
	N	649	649	

Observed Rank Correlation Context
Spearman correlations are provided as an SPSS-native compari

Correlations

			Workday alcohol consumption ordered rating	Weekend alcohol consumption ordered rating
Spearman's rho	Mother education ordered category	Correlation Coefficient	.002	-.018
		Sig. (2-tailed)	.960	.643
		N	649	649
	Father education ordered category	Correlation Coefficient	-.005	.030
		Sig. (2-tailed)	.901	.450
		N	649	649
	Travel time ordered category	Correlation Coefficient	.068	.032
		Sig. (2-tailed)	.081	.423
		N	649	649
	Study time ordered category	Correlation Coefficient	-.171 **	-.222 **
		Sig. (2-tailed)	.000	.000
		N	649	649
	Past class failures ordered count	Correlation Coefficient	.109 **	.065
		Sig. (2-tailed)	.005	.099
		N	649	649
	Family relationship quality ordered rating	Correlation Coefficient	-.098 *	-.102 **
		Sig. (2-tailed)	.013	.009
		N	649	649
	Free time after school ordered rating	Correlation Coefficient	.127 **	.120 **
		Sig. (2-tailed)	.001	.002
		N	649	649
	Going out ordered rating	Correlation Coefficient	.234 **	.372 **
		Sig. (2-tailed)	.000	.000
		N	649	649
Workday alcohol consumption ordered rating	Correlation Coefficient	1.000	.613 **	
	Sig. (2-tailed)	.	.000	
	N	649	649	

Observed Rank Correlation Context
 Spearman correlations are provided as an SPSS-native compari

Correlations

			Current health ordered rating
Spearman's rho	Mother education ordered category	Correlation Coefficient	.016
		Sig. (2-tailed)	.682
		N	649
	Father education ordered category	Correlation Coefficient	.046
		Sig. (2-tailed)	.238
		N	649
	Travel time ordered category	Correlation Coefficient	-.064
		Sig. (2-tailed)	.104
		N	649
	Study time ordered category	Correlation Coefficient	-.077
		Sig. (2-tailed)	.051
		N	649
	Past class failures ordered count	Correlation Coefficient	.041
		Sig. (2-tailed)	.295
		N	649
	Family relationship quality ordered rating	Correlation Coefficient	.093 [*]
		Sig. (2-tailed)	.018
		N	649
	Free time after school ordered rating	Correlation Coefficient	.095 [*]
		Sig. (2-tailed)	.015
		N	649
	Going out ordered rating	Correlation Coefficient	-.012
		Sig. (2-tailed)	.758
		N	649
	Workday alcohol consumption ordered rating	Correlation Coefficient	.085 [*]
		Sig. (2-tailed)	.030
		N	649

Observed Rank Correlation Context
 Spearman correlations are provided as an SPSS-native compari

Correlations

		Mother education ordered category	Father education ordered category
Weekend alcohol consumption ordered rating	Correlation Coefficient	-.018	.030
	Sig. (2-tailed)	.643	.450
	N	649	649
Current health ordered rating	Correlation Coefficient	.016	.046
	Sig. (2-tailed)	.682	.238
	N	649	649

Correlations

		Travel time ordered category	Study time ordered category
Weekend alcohol consumption ordered rating	Correlation Coefficient	.032	-.222**
	Sig. (2-tailed)	.423	.000
	N	649	649
Current health ordered rating	Correlation Coefficient	-.064	-.077
	Sig. (2-tailed)	.104	.051
	N	649	649

Correlations

		Past class failures ordered count	Family relationship quality ordered rating
Weekend alcohol consumption ordered rating	Correlation Coefficient	.065	-.102**
	Sig. (2-tailed)	.099	.009
	N	649	649
Current health ordered rating	Correlation Coefficient	.041	.093*
	Sig. (2-tailed)	.295	.018
	N	649	649

Observed Rank Correlation Context
Spearman correlations are provided as an SPSS-native compari

Correlations

		Free time after school ordered rating	Going out ordered rating
Weekend alcohol consumption ordered rating	Correlation Coefficient	.120**	.372**
	Sig. (2-tailed)	.002	.000
	N	649	649
Current health ordered rating	Correlation Coefficient	.095*	-.012
	Sig. (2-tailed)	.015	.758
	N	649	649

Correlations

		Workday alcohol consumption ordered rating	Weekend alcohol consumption ordered rating
Weekend alcohol consumption ordered rating	Correlation Coefficient	.613**	1.000
	Sig. (2-tailed)	.000	.
	N	649	649
Current health ordered rating	Correlation Coefficient	.085*	.114**
	Sig. (2-tailed)	.030	.004
	N	649	649

Correlations

		Current health ordered rating
Weekend alcohol consumption ordered rating	Correlation Coefficient	.114**
	Sig. (2-tailed)	.004
	N	649
Current health ordered rating	Correlation Coefficient	1.000
	Sig. (2-tailed)	.
	N	649

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

* . Correlation is significant at the 0.05 level (2-tailed).

Polychoric Correlation Computation by SPSS Python

```
>Warning # 2004.  Command name: SUBTITLE  
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```

Polychoric Correlation Computation by SPSS Python
CSV result tables, charts, and an additional PDF report are

Traceback (most recent call last):

File "<string>", line 13, in <module>

TypeError: mkdir() got an unexpected keyword argument 'exist_ok'