Factor Analysis

Notes

Output Created		14-DEC-2024 11:47:
Comments		
Input	Data	/Users/wajdiahmed/Do wnloads/KMO_Low_inco me copy.csv
	Active Dataset	DataSet13
	Filter	<none></none>
	Weight	<none></none>
	Split File	<none></none>
	N of Rows in Working Data File	300
Missing Value Handling	Definition of Missing	MISSING=EXCLUDE: User-defined missing values are treated as missing.
	Cases Used	LISTWISE: Statistics are based on cases with no missing values for any variable used.
Syntax		FACTOR /VARIABLES V1 V2 V3 V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15 V16 V17 V18 V19 V20 V21 V22 V23 V24 V25 V26 V27 V28 V29 V30 V31 V32 V33 V34 V35 V36 /MISSING LISTWISE /ANALYSIS V1 V2 V3 V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15 V16 V17 V18 V19 V20 V21 V22 V23 V24 V25 V26 V27 V28 V29 V30 V31 V32 V33 V34 V35 V36 /PRINT INITIAL KMO EXTRACTION ROTATION /PLOT EIGEN /CRITERIA MINEIGEN (1) ITERATE(25) /EXTRACTION PC /CRITERIA ITERATE (25) /ROTATION VARIMAX /METHOD=CORRELATIO N.
Resources	Processor Time	00:00:00.21
	Elapsed Time	00:00:00.00
	Maximum Memory Required	149824 (146.313K) bytes

[DataSet13]

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Me	.828	
Bartlett's Test of Sphericity	Approx. Chi-Square	10569.564
	df	630
	Sig.	.000

Communalities

	Initial	Extraction
V1	1.000	.572
V2	1.000	.850
V3	1.000	.621
V4	1.000	.806
V5	1.000	.760
V6	1.000	.783
V7	1.000	.725
V8	1.000	.695
V9	1.000	.487
V10	1.000	.836
V11	1.000	.608
V12	1.000	.734
V13	1.000	.728
V14	1.000	.518
V15	1.000	.720
V16	1.000	.598
V17	1.000	.885
V18	1.000	.581
V19	1.000	.441
V20	1.000	.706
V21	1.000	.873
V22	1.000	.907
V23	1.000	.566
V24	1.000	.639
V25	1.000	.707
V26	1.000	.520
V27	1.000	.811
V28	1.000	.497
V29	1.000	.805
V30	1.000	.667
V31	1.000	.559

Communalities

	Initial	Extraction
V32	1.000	.503
V33	1.000	.639
V34	1.000	.797
V35	1.000	.821
V36	1.000	.811

Extraction Method: Principal Component Analysis.

Total Variance Explained

		Initial Eigenvalues			Sums of Squared.
Component	Total	% of Variance	Cumulative %	Total	% of Variance
1	16.617	46.158	46.158	16.617	46.158
2	1.758	4.884	51.042	1.758	4.884
3	1.575	4.375	55.417	1.575	4.375
4	1.349	3.748	59.165	1.349	3.748
5	1.233	3.426	62.591	1.233	3.426
6	1.147	3.186	65.776	1.147	3.186
7	1.098	3.049	68.825	1.098	3.049
8	.985	2.737	71.562		
9	.945	2.625	74.187		
10	.857	2.382	76.569		
11	.839	2.331	78.900		
12	.828	2.300	81.199		
13	.773	2.146	83.345		
14	.685	1.903	85.248		
15	.642	1.785	87.033		
16	.575	1.596	88.629		
17	.510	1.417	90.046		
18	.457	1.268	91.314		
19	.419	1.164	92.478		
20	.383	1.065	93.543		
21	.334	.928	94.471		
22	.317	.879	95.350		
23	.254	.707	96.057		
24	.233	.649	96.705		
25	.214	.596	97.301		
26	.176	.490	97.791		
27	.153	.424	98.215		
28	.143	.396	98.612		

Total Variance Explained

Extraction Sums... Rotation Sums of Squared Loadings Cumulative % Total % of Variance Cumulative % Component 46.158 15.592 43.312 43.312 2 51.042 2.050 5.695 49.007 1.524 3 55.417 4.232 53.239 4 59.165 1.509 4.191 57.430 5 62.591 1.427 3.963 61.392 6 65.776 1.388 3.856 65.249 7 68.825 1.288 3.577 68.825 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Total Variance Explained

		Initial Eigenval	Extraction S	Sums of Squared.	
Component	Total	% of Variance	Cumulative %	Total	% of Variance
29	.133	.368	98.980		
30	.098	.272	99.252		
31	.083	.231	99.483		
32	.063	.176	99.659		
33	.052	.143	99.802		
34	.029	.081	99.883		
35	.023	.065	99.948		
36	.019	.052	100.000		

Total Variance Explained

Extraction Sums ... Rotation Sums of Squared Loadings

Component Cumulative % Total % of Variance Cumulative %

29

30

31

32

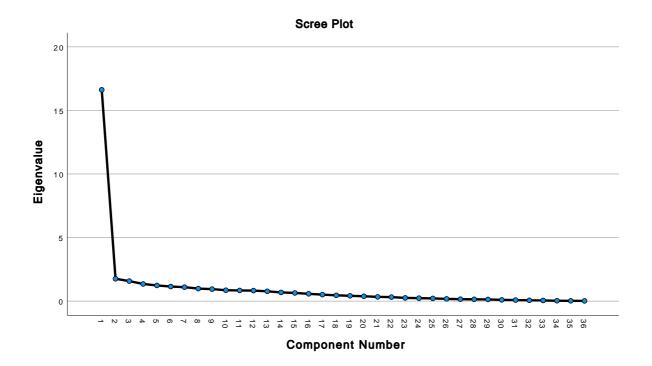
33

34

35

36

Extraction Method: Principal Component Analysis.



Component Matrix^a

(2	0	m	p	0	n	е	n	t

	1	2	3	4	5	6	7
V1	.219	334	.369	139	.104	.079	.490
V2	.918	031	.016	032	035	057	026
V3	.528	.202	.182	322	.378	046	.139
V4	.886	030	097	030	098	.026	011
V5	583	162	042	162	.011	540	270
V6	.869	075	033	.058	067	.107	050
V7	834	.053	.032	.022	.103	111	.046
V8	.210	577	239	011	280	.298	.306
V9	.146	.538	.199	.261	.192	.118	.137
V10	910	.062	.026	001	.031	053	021
V11	404	346	087	.462	.162	155	.233
V12	.031	.548	.149	398	282	026	.415
V12	212	047	605	351	.314	.295	082
V14	622	.006	.160	053	280	.157	004
V15	631	.016	310	.232	307	198	.196
V16	394	.152	.508	.311	166	.176	071
V17	.932	.001	.057	049	.006	.100	016
V18	622	.092	.029	103	.299	.250	150
V19	.004	459	.428	.055	.196	041	062
V20	.813	.078	.040	049	134	134	.007
V21	.925	021	029	.029	051	.065	089
V22	949	017	036	034	032	024	050
V23	687	.036	057	227	.075	.116	139
V24	.769	101	.104	.078	.025	.021	138
V25	.832	.015	048	038	.046	045	083
V26	.545	.190	098	.071	.324	213	.147
V27	.887	.073	.005	.051	.008	.120	.039
V28	471	123	.277	.202	.193	.251	206
V29	870	007	148	055	.011	076	.135
V30	.333	.373	362	.532	.022	.009	046
V31	.433	090	069	.122	.391	287	.328
V32	439	.110	230	.192	.100	.392	.210
V33	.752	.130	.023	.082	079	067	198
V34	849	.120	.064	019	181	141	.075
V35	.878	076	097	059	162	020	073
V36	.892	076	032	.024	061	063	.010

Extraction Method: Principal Component Analysis.

a. 7 components extracted.

Rotated Component Matrix^a

		Rola	teu Com	ponent w	Rotated Component Matrix							
				Componen	t							
	1	2	3	4	5	6	7					
V1	.137	.211	.085	.642	.237	.131	.125					
V2	.891	.205	.088	.043	.003	.043	048					
V3	.433	.329	.255	.321	353	157	.088					
V4	.871	.153	.110	033	.099	029	012					
V5	566	001	139	061	155	.025	626					
V6	.872	.102	002	001	.095	.005	.064					
V7	841	060	066	016	091	.022	034					
V8	.230	049	068	.180	.764	137	.016					
V9	.084	.145	.147	116	353	.193	.512					
V10	887	186	063	047	084	.004	044					
V11	458	.300	424	027	.302	.185	.055					
V12	047	024	.832	.064	100	.103	.121					
V13	196	.003	030	113	.075	819	.015					
V14	549	433	.070	.050	.090	.114	.018					
V15	647	.004	.058	387	.342	.153	094					
V16	328	381	110	.069	159	.472	.284					
V17	.916	.139	.091	.101	018	014	.085					
V18	578	220	155	.078	247	286	.164					
V19	.021	.008	394	.489	020	.185	105					
V20	.780	.176	.209	016	024	.129	082					
V21	.925	.121	.027	021	.023	.000	.034					
V22	906	252	083	059	.003	046	100					
V23	633	282	019	.022	113	263	062					
V24	.777	.101	109	.074	043	.077	.004					
V25	.808	.208	.051	012	065	045	037					
V26	.427	.532	.077	064	188	032	.090					
V27	.859	.177	.097	.009	.003	.011	.181					
V28	395	277	417	.160	150	.055	.198					
V29	879	062	.016	065	.096	096	073					
V30	.302	.240	079	632	035	.075	.325					
V31	.282	.679	054	.116	.012	.018	.037					
V32	442	062	053	147	.179	201	.455					
V33	.760	.075	.038	146	141	.113	027					

-.083

-.041

-.003

.114

.084

.159

.058

-.011

-.101

-.111

-.045

.119

.100

.058

Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization.

-.204

.103

.228

V34

V35

V36

-.836

.879

.862

a. Rotation converged in 13 iterations.

Component Transformation Matrix

Component	1	2	3	4	5	6	7
1	.966	.236	.089	.033	.002	.021	.035
2	049	002	.560	455	580	.066	.370
3	.020	236	013	.643	380	.612	.108
4	004	.175	549	440	.139	.532	.414
5	105	.549	391	.272	479	419	.238
6	.115	535	083	.154	.195	377	.700
7	198	.520	.467	.294	.483	.143	.364

Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization.

Notes

Output Created	16-DEC-2024 08:10:			
Comments				
Input	Data	/Users/wajdiahmed/Do wnloads/PHD Dataset V01 7-12-24 - Copy of Dataset.csv		
	Active Dataset	DataSet15		
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	N of Rows in Working Data File	165		
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.		
	Cases Used	Statistics are based on all cases with valid data.		
Syntax		FREQUENCIES VARIABLES=Framework /HISTOGRAM NORMAL /ORDER=ANALYSIS.		
Resources	Processor Time	00:00:00.01		
	Elapsed Time	00:00:00.00		

Frequencies

Notes

Output Created	16-DEC-2024 08:12:	
Comments		
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	Split File	<none></none>
	N of Rows in Working Data File	165
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data.
Syntax		FREQUENCIES VARIABLES=Framework_ A /HISTOGRAM NORMAL /ORDER=ANALYSIS.
Resources	Processor Time	00:00:00.01
	Elapsed Time	00:00:00.00

Warnings

Framework_A is a string so a histogram cannot be produced.

Statistics

Framework_A

N	Valid	165
	Missing	0

Framework Layers Distribution

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	L1:	28	17.0	17.0	17.0
	L2:	65	39.4	39.4	56.4
	L3:	19	11.5	11.5	67.9
	L4:	16	9.7	9.7	77.6
	L5:	16	9.7	9.7	87.3
	L6:	21	12.7	12.7	100.0
	Total	165	100.0	100.0	