

Cluster Analysis 5 VAR -- 4 CLUS

The CLUSTER Procedure Ward's Minimum Variance Cluster Analysis

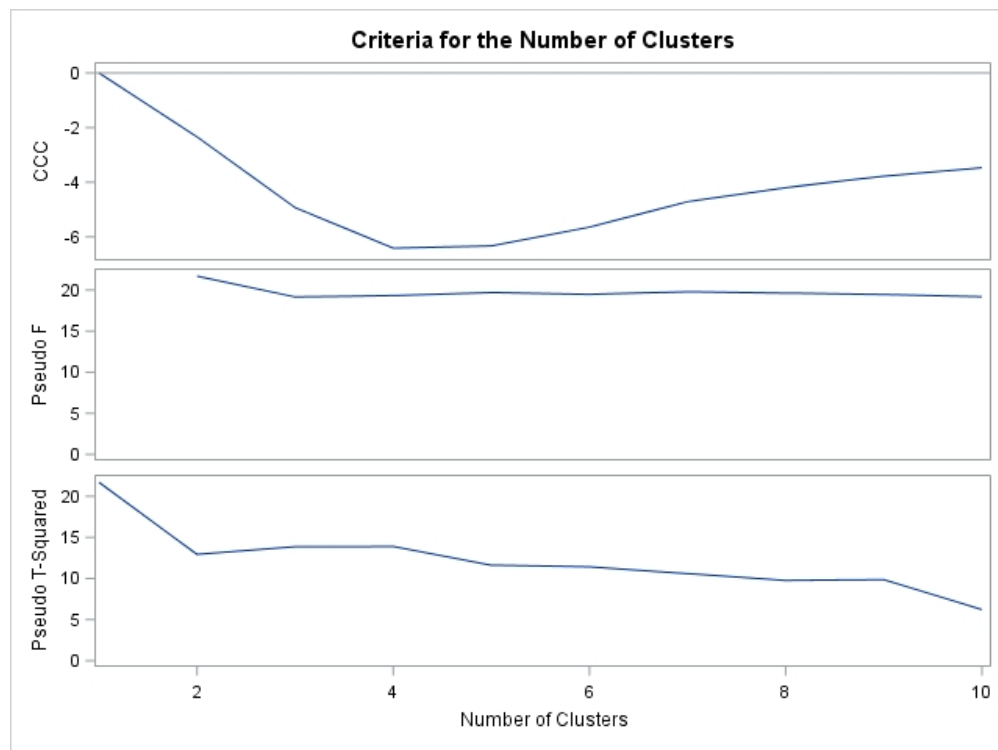
Variable	Mean	Standard Deviation	Skewness	Kurtosis	Bimodality
x6	7.8520	1.3744	-0.2564	-1.1340	0.5435
x8	5.4296	1.4708	-0.1078	-0.7401	0.4296
x12	5.1398	1.0733	0.3605	0.4126	0.3221
x15	5.0806	1.4189	0.1476	-0.2510	0.3593
x18	3.9000	0.7351	-0.5116	0.2955	0.3721

Eigenvalues of the Covariance Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	2.22759760	0.12519052	0.2871	0.2871
2	2.10240708	0.22195350	0.2710	0.5582
3	1.88045358	0.79748334	0.2424	0.8006
4	1.08297024	0.61870046	0.1396	0.9402
5	0.46426978		0.0598	1.0000

Root-Mean-Square Total-Sample Standard Deviation 1.245608

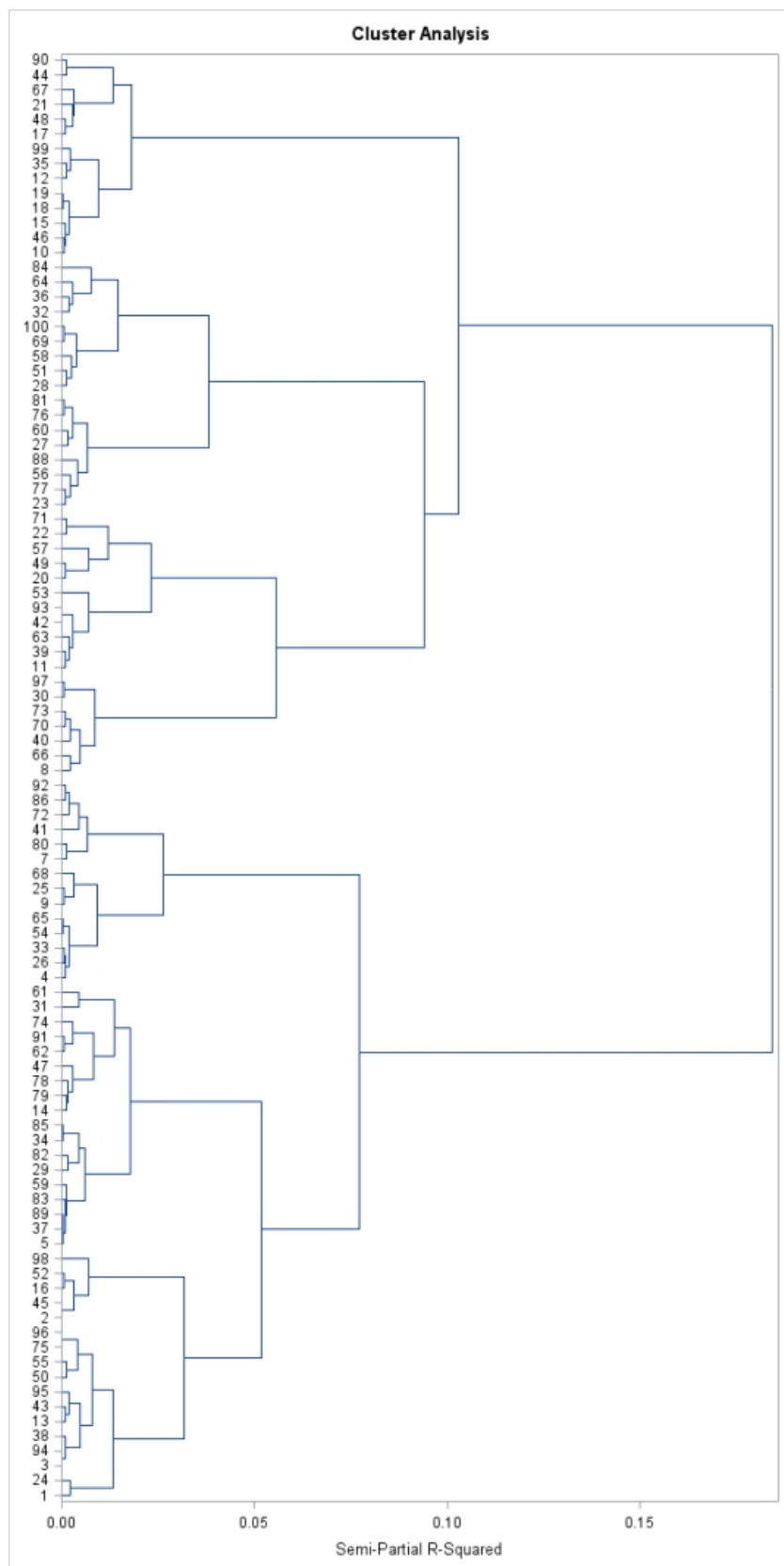
Root-Mean-Square Distance Between Observations 3.938959

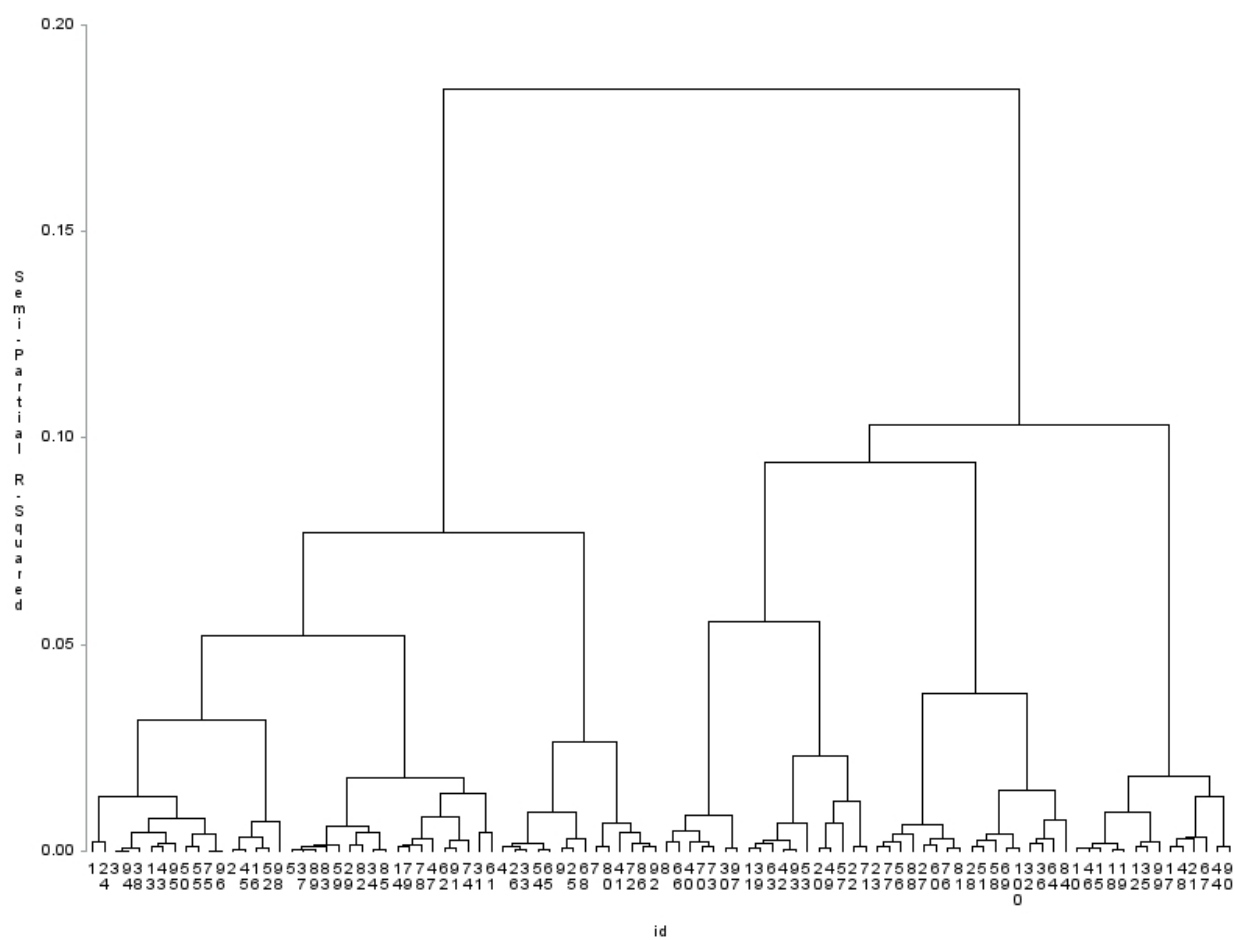
Cluster History										
Number of Clusters	Clusters Joined	Freq	Semipartial R-Square	R-Square	Approximate Expected R-Square	Cubic Clustering Criterion	Pseudo F Statistic	Pseudo t-Squared	Tie	
10	CL26 CL17	11	0.0231	.663	.714	-3.5	19.2	6.2		
9	CL19 CL27	14	0.0265	.636	.694	-3.8	19.4	9.9		
8	CL16 CL24	17	0.0319	.604	.671	-4.2	19.6	9.8		
7	CL28 CL13	17	0.0381	.566	.644	-4.7	19.8	10.6		
6	CL8 CL12	35	0.0520	.514	.612	-5.6	19.5	11.4		
5	CL20 CL10	18	0.0556	.459	.570	-6.3	19.7	11.6		
4	CL6 CL9	49	0.0771	.382	.512	-6.4	19.3	13.9		
3	CL5 CL7	35	0.0942	.287	.395	-4.9	19.2	13.9		
2	CL3 CL11	49	0.1031	.184	.230	-2.3	21.7	12.9		
1	CL4 CL2	98	0.1843	.000	.000	0.00	.	21.7		



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The CLUSTER Procedure
Ward's Minimum Variance Cluster Analysis





One-Way Frequencies**Results****The FREQ Procedure**

CLUSTER	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	49	50.00	49	50.00
2	18	18.37	67	68.37
3	14	14.29	81	82.65
4	17	17.35	98	100.00