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Supplementary Results for Chapter 3

Supplementary Results for Chapter 3A- Number of Members and Its Percentage of a Cluster Resulted by Performing Statistical Package Clustering Methods

Milk Study: Statistical Package Clusters

Type of scores	Clustering method	Cluster name	Number of members	Percent	Type of scores	Clustering method	Cluster name	Number of members	Percent
Hedonic	MCQ	1	102	88.7	Ranking	MCQ	1	86	74.8
		2	11	9.6			2	20	17.4
		3	2	1.7			3	9	7.8
	Median linkage	1	93	80.9		Median linkage	1	113	98.3
		2	11	9.6			2	1	0.9
		3	11	9.6			3	1	0.9
	Single linkage	1	113	98.3		Single linkage	1	113	98.3
		2	1	0.9			2	1	0.9
		3	1	0.9			3	1	0.9
	Complete linkage	1	55	47.8		Complete linkage	1	40	34.8
		2	41	35.7			2	39	33.9
		3	19	16.5			3	36	31.3
	Ward's	1	44	38.3		Ward's	1	40	34.8
		2	43	37.4			2	39	33.9
		3	28	24.4			3	36	31.3
	Average linkage	1	103	89.6		Average linkage	1	86	74.8
		2	11	9.6			2	20	17.4
		3	1	0.9			3	9	7.8
	K-mean	1	41	35.7		K-mean	1	52	45.2
		2	39	33.9			2	38	33.0
		3	35	30.4			3	25	21.7
	Nonpara-metric	1	112	97.3		Nonpara-metric	1	114	99.1
		2	1	0			2	1	0
		3	1	0			na	na	na
4		1	0	na	na		na		
TwoStage	1	102	88.7	TwoStage	1	105	91.3		
	2	10	8.7		2	7	6.1		
	3	3	2.6		3	3	2.6		

Fragrance Study: Statistical Package Clusters

Type of scores	Clustering method	Cluster name	Number of members	Percent	Type of scores	Clustering method	Cluster name	Number of members	Percent	
Hedonic	MCQ	1	142	44.2	Ranking	MCQ	1	119	37.1	
		2	128	39.9			2	94	29.3	
		3	19	5.9			3	33	10.3	
		4	17	5.3			4	21	6.5	
		5	5	1.6			5	20	6.2	
		6	2	0.6			6	10	3.1	
		7	2	0.6			7	9	2.8	
		8	2	0.6			8	6	1.9	
		9	2	0.6			9	5	1.6	
		10	1	0.3			10	2	0.6	
		11	1	0.3			11	2	0.6	
		Median linkage	1	311	96.9		Median linkage	1	294	91.6
			2	1	0.3			2	18	5.6
			3	1	0.3			3	1	0.3
			4	1	0.3			4	1	0.3
			5	1	0.3			5	1	0.3
			6	1	0.3			6	1	0.3
			7	1	0.3			7	1	0.3
			8	1	0.3			8	1	0.3
			9	1	0.3			9	1	0.3
			10	1	0.3			10	1	0.3
			11	1	0.3			11	1	0.3
		Single linkage	1	310	96.6		Single linkage	1	311	96.9
			2	2	0.6			2	1	0.3
			3	1	0.3			3	1	0.3
			4	1	0.3			4	1	0.3
			5	1	0.3			5	1	0.3
			6	1	0.3			6	1	0.3
			7	1	0.3			7	1	0.3
			8	1	0.3			8	1	0.3
			9	1	0.3			9	1	0.3
			10	1	0.3			10	1	0.3
			11	1	0.3			11	1	0.3

Type of scores	Clustering method	Cluster name	Number of members	Percent	Type of scores	Clustering method	Cluster name	Number of members	Percent	
Hedonic	Complete linkage	1	82	25.6	Ranking	Complete linkage	1	72	22.4	
		2	79	24.6			2	47	14.6	
		3	51	15.9			3	42	13.1	
		4	34	10.6			4	31	9.7	
		5	23	7.2			5	26	8.1	
		6	18	5.6			6	20	6.2	
		7	10	3.1			7	20	6.2	
		8	8	2.5			8	19	5.9	
		9	6	1.9			9	16	5.0	
		10	5	1.6			10	16	5.0	
		11	5	1.6			11	12	3.7	
	Ward's	Ward's	1	54	16.8	Ward's	Ward's	1	66	20.6
			2	43	13.4			2	37	11.5
			3	34	10.6			3	35	10.9
			4	33	10.2			4	34	10.6
			5	32	10.0			5	31	9.7
			6	27	8.4			6	26	8.1
			7	25	7.8			7	24	7.5
			8	22	6.9			8	22	6.9
			9	20	6.2			9	20	6.2
			10	19	5.9			10	14	4.4
			11	12	3.7			11	12	3.7
	Average linkage	Average linkage	1	267	83.2	Average linkage	Average linkage	1	233	72.6
			2	20	6.2			2	31	9.7
			3	7	2.2			3	18	5.6
			4	6	1.9			4	9	2.8
			5	6	1.9			5	6	1.9
			6	5	1.6			6	5	1.6
			7	3	0.9			7	5	1.6
			8	2	0.6			8	5	1.6
			9	2	0.6			9	5	1.6
			10	2	0.6			10	2	0.6
			11	1	0.3			11	2	0.6
K-mean	K-mean	1	120	37.4	K-mean	K-mean	1	84	26.2	
		2	97	30.2			2	60	18.7	
		3	87	27.1			3	50	15.6	
		4	5	1.6			4	32	10.0	
		5	3	0.9			5	21	6.5	
		6	2	0.6			6	20	6.2	
		7	2	0.6			7	16	5.0	
		8	2	0.6			8	15	4.7	
		9	1	0.3			9	12	3.7	
		10	1	0.3			10	8	2.5	
		11	1	0.3			11	3	0.9	

Type of scores	Clustering method	Cluster name	Frequency	Percent	Type of scores	Clustering method	Cluster name	Frequency	Percent
Hedonic	Nonpara-metric	1	311	96.9	Ranking	Nonpara-metric	1	314	97.8
		2	2	0			2	1	0
		3	1	0			3	1	0
		4	1	0			4	1	0
		5	1	0			5	1	0
		6	1	0			6	1	0
		7	1	0			7	1	0
		8	1	0			8	1	0
		9	1	0			na	na	na
		10	1	0			na	na	na
		na	na	na			na	na	na
	TwoStage	1	311	96.9		TwoStage	1	311	96.9
		2	1	0.3			2	1	0.3
		3	1	0.3			3	1	0.3
		4	1	0.3			4	1	0.3
		5	1	0.3			5	1	0.3
		6	1	0.3			6	1	0.3
		7	1	0.3			7	1	0.3
		8	1	0.3			8	1	0.3
		9	1	0.3			9	1	0.3
		10	1	0.3			10	1	0.3
		11	1	0.3			11	1	0.3