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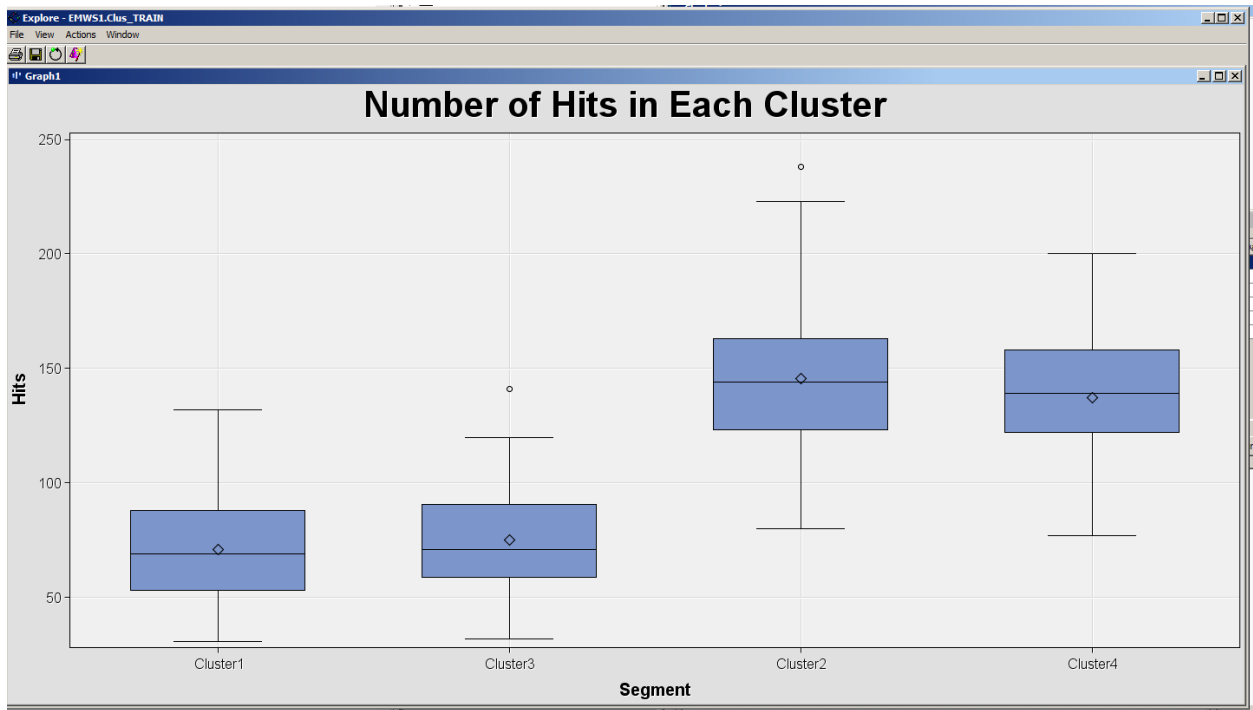
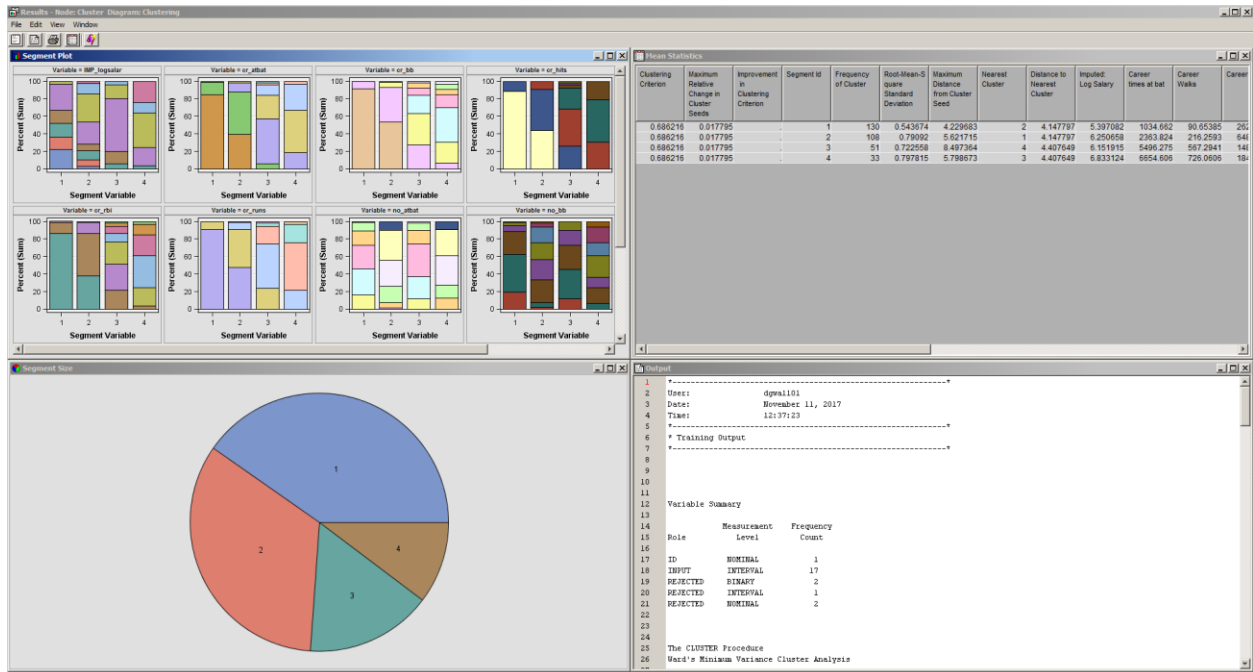
Dr. Zurada

November 17, 2017

CIS 445 – S01

Tutorial 3

I did not have any problems with this after going to the computer lab and running the link analysis after switching computers (one still did not work). This tutorial extended my knowledge of the various ways clustering, link analysis, and association analysis. I think the tutorial was at least a 7/10, most of the other tutorials were longer and I think explained the topics more in depth (but maybe these topics don't have that much depth, which I don't really think is the case). I think this tutorial did do a good job on showing how SAS EM expects and interacts with data using these different analysis types.



Rules Table

Relations	Expected Confidence(%)	Confidence(%)	Support(%)	Lift	Transaction Count	Rule	Left Hand of Rule	Right Hand of Rule	Rule Item 1	Rule Item 2	Rule Item 3	Rule Index	Transpose Rule
2	29.57	70.29	21.98	2.38	220.00	ice_crea ==> ...	ice_crea	coke	ice_crea	=====	coke	1	1
2	31.27	74.32	21.98	2.38	220.00	coke ==> ic...	coke	ice_crea	coke	=====	ice_crea	2	1
2	30.47	58.13	21.08	1.91	211.00	avocado ==> ...	avocado	artichok	avocado	=====	artichok	3	1
2	36.26	69.18	21.08	1.91	211.00	artichok ==> ...	artichok	avocado	artichok	=====	avocado	4	1
2	29.57	49.66	14.69	1.68	147.00	sardines ==> ...	sardines	coke	sardines	=====	coke	5	1
2	29.57	49.66	14.69	1.68	147.00	coke ==> s...	coke	sardines	coke	=====	sardines	6	1
2	31.37	51.98	11.79	1.66	118.00	steak ==> a...	steak	apples	steak	=====	apples	7	1
2	22.68	37.58	11.79	1.66	118.00	apples ==> ...	apples	steak	apples	=====	steak	8	1
2	28.27	46.72	22.08	1.65	221.00	olives ==> t...	olives	turkey	olives	=====	turkey	9	1
2	47.25	78.09	22.08	1.65	221.00	turkey ==> ...	turkey	olives	turkey	=====	olives	10	1
2	29.57	48.24	15.08	1.63	151.00	ice_crea ==> ...	ice_crea	sardines	ice_crea	=====	sardines	11	1
2	31.27	51.01	15.08	1.63	151.00	sardines ==> ...	sardines	ice_crea	sardines	=====	ice_crea	12	1
2	48.75	78.93	25.07	1.62	251.00	soda ==> cr...	soda	cracker	soda	=====	cracker	13	1
2	31.77	51.43	25.07	1.62	251.00	cracker ==> ...	cracker	soda	cracker	=====	soda	14	1
2	28.27	43.93	13.39	1.55	134.00	ham ==> tu...	ham	turkey	ham	=====	turkey	15	1
2	30.47	47.35	13.39	1.55	134.00	turkey ==> ...	turkey	ham	turkey	=====	ham	16	1
2	36.26	54.85	21.48	1.51	215.00	baguette ==> ...	baguette	avocado	baguette	=====	avocado	17	1
2	39.16	59.23	21.48	1.51	215.00	avocado ==> ...	avocado	baguette	avocado	=====	baguette	18	1
2	22.68	34.02	13.29	1.50	133.00	corned_b ==> ...	steak	corned_b	steak	=====	steak	19	1
2	39.06	58.59	13.29	1.50	133.00	steak ==> c...	steak	corned_b	steak	=====	corned_b	20	1
2	29.57	44.13	13.89	1.49	139.00	chicken ==> ...	chicken	coke	chicken	=====	coke	21	1
2	31.47	46.96	13.89	1.49	139.00	coke ==> c...	coke	chicken	coke	=====	chicken	22	1
2	29.57	42.86	13.49	1.45	135.00	chicken ==> ...	chicken	sardines	chicken	=====	sardines	23	1
2	31.47	45.61	13.49	1.45	135.00	sardines ==> ...	sardines	chicken	sardines	=====	chicken	24	1
2	28.27	40.26	12.59	1.42	126.00	ice_crea ==> ...	ice_crea	turkey	ice_crea	=====	turkey	25	1
2	31.27	44.52	12.59	1.42	126.00	turkey ==> l...	turkey	ice_crea	turkey	=====	ice_crea	26	1
2	29.57	42.05	11.89	1.42	119.00	turkey ==> c...	turkey	coke	turkey	=====	coke	27	1
2	28.27	40.20	11.89	1.42	119.00	coke ==> tu...	coke	turkey	coke	=====	turkey	28	1
2	31.47	44.73	13.99	1.42	140.00	ice_crea ==> ...	ice_crea	chicken	ice_crea	=====	chicken	29	1
2	31.27	44.44	13.99	1.42	140.00	chicken ==> ...	chicken	ice_crea	chicken	=====	ice_crea	30	1
2	31.37	43.92	12.99	1.40	130.00	peppers ==> ...	peppers	apples	peppers	=====	apples	31	1
2	29.57	41.40	12.99	1.40	130.00	apples ==> ...	apples	peppers	apples	=====	peppers	32	1
2	30.47	42.00	25.17	1.38	252.00	heineken ==> ...	heineken	artichok	heineken	=====	artichok	33	1
2	59.94	82.62	25.17	1.38	252.00	artichok ==> ...	artichok	heineken	artichok	=====	heineken	34	1
2	30.47	41.97	12.79	1.38	128.00	ham ==> ar...	ham	artichok	ham	=====	artichok	35	1
2	30.47	41.97	12.79	1.38	128.00	artichok ==> ...	artichok	ham	artichok	=====	ham	36	1
2	29.57	40.54	11.99	1.37	120.00	sardines ==> ...	sardines	peppers	sardines	=====	peppers	37	1
2	29.57	40.54	11.99	1.37	120.00	peppers ==> ...	peppers	sardines	peppers	=====	sardines	38	1
2	47.25	64.32	14.59	1.36	146.00	steak ==> o...	steak	olives	steak	=====	olives	39	1
2	22.68	30.87	14.59	1.36	146.00	olives ==> ...	olives	steak	olives	=====	steak	40	1
2	29.57	40.13	12.59	1.36	126.00	apples ==> ...	apples	sardines	apples	=====	sardines	41	1
2	31.37	42.57	12.59	1.36	126.00	sardines ==> ...	sardines	apples	sardines	=====	apples	42	1
2	48.55	65.64	14.89	1.35	149.00	steak ==> h...	steak	hering	steak	=====	hering	43	1
2	22.68	30.66	14.89	1.35	149.00	hering ==> ...	hering	steak	hering	=====	steak	44	1
2	31.77	42.83	25.67	1.35	257.00	heineken ==> ...	heineken	soda	heineken	=====	soda	45	1
2	59.94	80.82	25.67	1.35	257.00	soda ==> h...	soda	heineken	soda	=====	heineken	46	1
2	39.06	52.46	15.98	1.34	160.00	ham ==> co...	ham	corned_b	ham	=====	corned_b	47	1
2	30.47	40.92	15.98	1.34	160.00	corned_b ==> ...	corned_b	ham	corned_b	=====	ham	48	1
2	29.57	39.37	12.39	1.33	124.00	chicken ==> ...	chicken	peppers	chicken	=====	peppers	49	1
2	31.47	41.89	12.39	1.33	124.00	peppers ==> ...	peppers	chicken	peppers	=====	chicken	50	1
2	39.16	51.23	24.88	1.31	249.00	hering ==> ...	hering	baguette	hering	=====	baguette	51	1
2	48.55	63.52	24.88	1.31	249.00	baguette ==> ...	baguette	hering	baguette	=====	hering	52	1
2	40.26	52.03	15.38	1.29	154.00	peppers ==> ...	peppers	bourbon	peppers	=====	bourbon	53	1
2	29.57	38.21	15.38	1.29	154.00	bourbon ==> ...	bourbon	peppers	bourbon	=====	peppers	54	1

