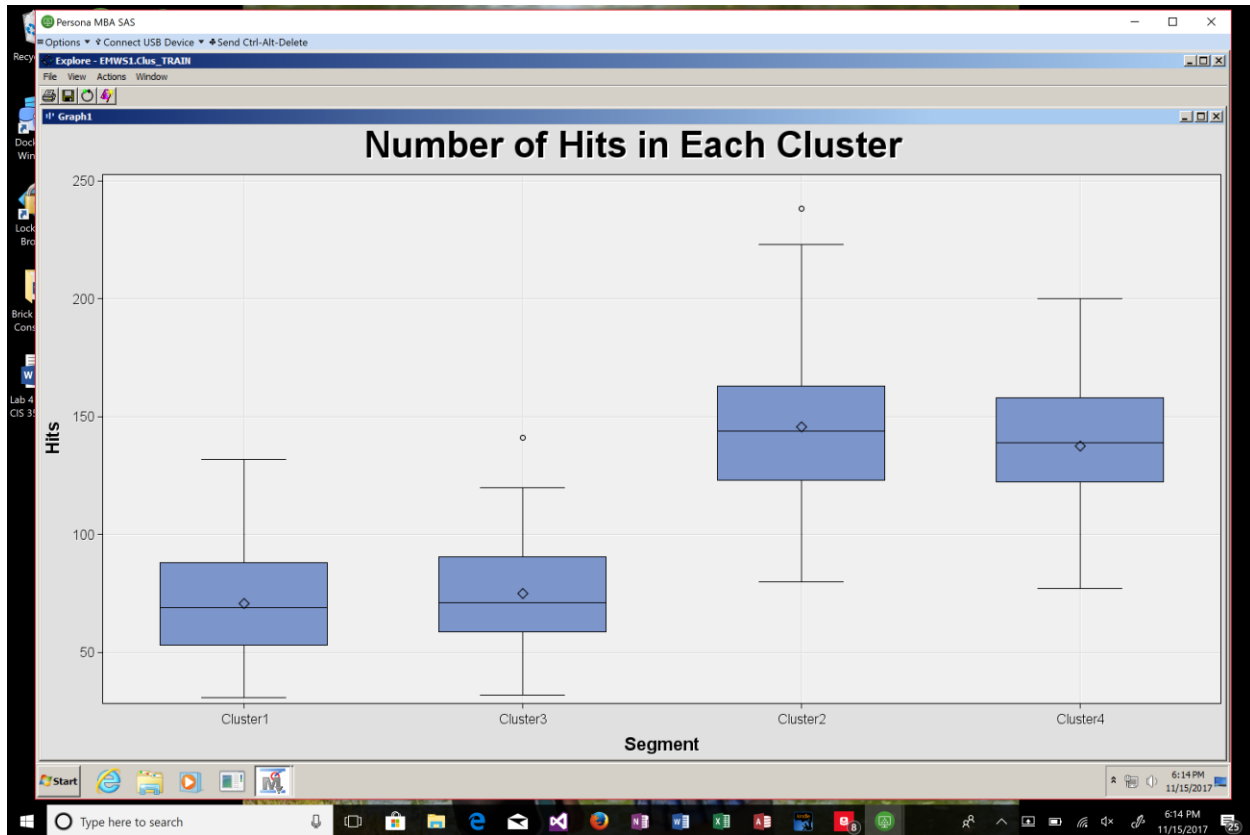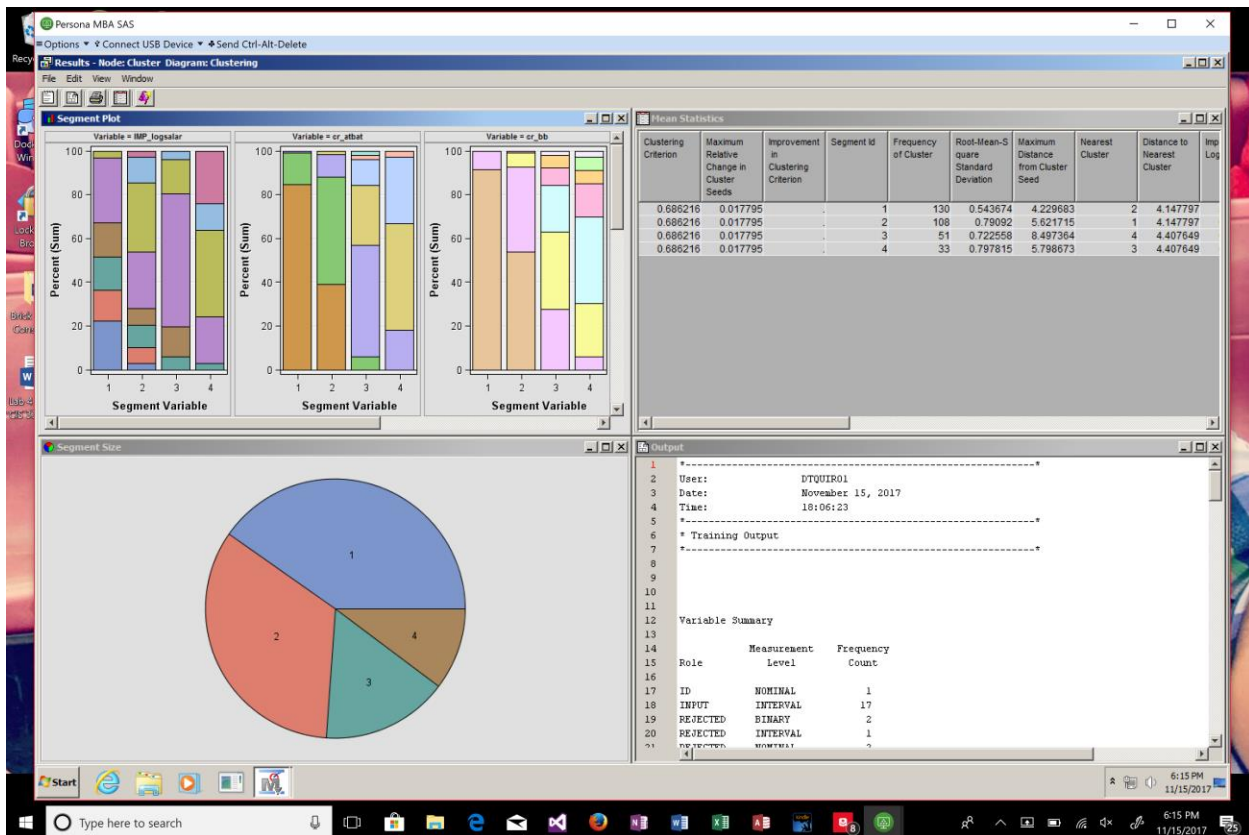Damon Quire

CIS 445

Tutorial 3

This tutorial was very easy to follow. The instructions and sticky notes were very clear and I didn't have a problem with any of the steps involved. So for the tutorial itself I'd award it a solid 9/10. I thought it was very useful in showing exactly how to explore data sets using the different models that SAS provides. I really think this was the smoothest to complete tutorial so far. HOWEVER, this has nothing to do with this assignment or the instructions, but oh my gosh was SAS slow on the virtual environment. I commute and work almost full time so it's very hard for me to be on campus when I don't have classes to attend, which is why sometimes I will miss class to get things done on campus that need to be finished. So I basically had to do it all on the virtual environment. If this assignment had as many nodes as some of the previous tutorials it literally would've taken no shorter than 10 hours or so. EACH node took 5 minutes to run and an additional minute-2 minutes to simply drag and drop the node in the first place. It was very frustrating. I had time to watch a couple youtube videos on my phone while

waiting for just 1 node to run! PS as you can see the link analysis node failed for

me.

Persona MBA SAS

Segment Plot

Variable = IMP_logsalar

Variable = cr_atbat

Variable = cr_bb

(Percent (Sum) vs Segment Variable, segments 1–4)

Mean Statistics

Clustering Criterion	Maximum Relative Change in Cluster Seeds	Improvement in Clustering Criterion	Segment Id	Frequency of Cluster	Root-Mean-Square Standard Deviation	Maximum Distance from Cluster Seed	Nearest Cluster	Distance to Nearest Cluster	Imp Log
0.686216	0.017795	.	1	130	0.543674	4.229683	2	4.147797	
0.686216	0.017795	.	2	108	0.79092	5.621715	1	4.147797	
0.686216	0.017795	.	3	51	0.722558	8.497364	4	4.407649	
0.686216	0.017795	.	4	33	0.797815	5.798673	3	4.407649	

Segment Size

(Pie chart: segments 1, 2, 3, 4)

Output

```
 1  *-------------------------------------------------------------*
 2  User:              DTQUIR01
 3  Date:              November 15, 2017
 4  Time:              18:06:23
 5  *-------------------------------------------------------------*
 6  * Training Output
 7  *-------------------------------------------------------------*
 8
 9
10
11
12  Variable Summary
13
14                     Measurement        Frequency
15  Role               Level              Count
16
17  ID                 NOMINAL            1
18  INPUT              INTERVAL           17
19  REJECTED           BINARY             2
20  REJECTED           INTERVAL           1
21  REJECTED           NOMINAL            2
```

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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	=======>	ice_crea	1	1
2	31.27	74.32	21.98	2.38	220.00	coke ==> ic...coke	ice_crea	coke	ice_crea	=======>	coke	2	1
2	30.47	58.13	21.08	1.91	211.00	avocado ==...avocado	artichok	avocado	artichok	=======>	avocado	3	1
2	36.26	69.18	21.08	1.91	211.00	artichok ==...artichok	avocado	artichok	avocado	=======>	artichok	4	1
2	29.57	49.66	14.69	1.68	147.00	sardines =...sardines	coke	sardines	coke	=======>	sardines	5	1
2	29.57	49.66	14.69	1.68	147.00	coke ==> s...coke	sardines	coke	sardines	=======>	coke	6	1
2	31.37	51.98	11.79	1.66	118.00	steak ==> a...steak	apples	steak	apples	=======>	steak	7	1
2	22.68	37.58	11.79	1.66	118.00	apples ==>...apples	steak	apples	steak	=======>	apples	8	1
2	28.27	46.72	22.08	1.65	221.00	olives ==> t...olives	turkey	olives	turkey	=======>	olives	9	1
2	47.25	78.09	22.08	1.65	221.00	turkey ==>...turkey	olives	turkey	olives	=======>	turkey	10	1
2	29.57	48.24	15.08	1.63	151.00	ice_crea ==...ice_crea	sardines	ice_crea	sardines	=======>	ice_crea	11	1
2	31.27	51.01	15.08	1.63	151.00	sardines =...sardines	ice_crea	sardines	ice_crea	=======>	sardines	12	1
2	48.75	78.93	25.07	1.62	251.00	soda ==> cr...soda	cracker	soda	cracker	=======>	cracker	13	1
2	31.77	51.43	25.07	1.62	251.00	cracker ==>...cracker	soda	cracker	soda	=======>	soda	14	1
2	28.27	43.93	13.39	1.55	134.00	ham ==> tu...ham	turkey	ham	turkey	=======>	turkey	15	1
2	30.47	47.35	13.39	1.55	134.00	turkey ==>...turkey	ham	turkey	ham	=======>	ham	16	1
2	36.26	54.85	21.48	1.51	215.00	baguette ==...baguette	avocado	baguette	avocado	=======>	avocado	17	1
2	39.16	59.23	21.48	1.51	215.00	avocado ==...avocado	baguette	avocado	baguette	=======>	baguette	18	1
2	22.68	34.02	13.29	1.50	133.00	corned_b =...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	=======>	corned_b	20	1
2	29.57	44.13	13.89	1.49	139.00	chicken ==...chicken	coke	chicken	coke	=======>	coke	21	1
2	31.47	46.96	13.89	1.49	139.00	coke ==> c...coke	chicken	coke	chicken	=======>	chicken	22	1
2	29.57	42.86	13.49	1.45	135.00	chicken ==...chicken	sardines	chicken	sardines	=======>	sardines	23	1
2	31.47	45.61	13.49	1.45	135.00	sardines =...sardines	chicken	sardines	chicken	=======>	chicken	24	1
2	28.27	40.26	12.59	1.42	126.00	ice_crea ==...ice_crea	turkey	ice_crea	turkey	=======>	turkey	25	1
2	31.27	44.52	12.59	1.42	126.00	turkey ==>...turkey	ice_crea	turkey	ice_crea	=======>	ice_crea	26	1
2	29.57	42.05	11.89	1.42	119.00	turkey ==> c...turkey	coke	turkey	coke	=======>	coke	27	1
2	28.27	40.20	11.89	1.42	119.00	coke ==> tu...coke	turkey	coke	turkey	=======>	turkey	28	1
2	31.47	44.73	13.99	1.42	140.00	ice_crea ==...ice_crea	chicken	ice_crea	chicken	=======>	chicken	29	1
2	31.27	44.44	13.99	1.42	140.00	chicken ==...chicken	ice_crea	chicken	ice_crea	=======>	ice_crea	30	1
2	31.37	43.92	12.99	1.40	130.00	peppers ==...peppers	apples	peppers	apples	=======>	apples	31	1
2	29.57	41.40	12.99	1.40	130.00	apples ==>...apples	peppers	apples	peppers	=======>	peppers	32	1
2	30.47	42.00	25.17	1.38	252.00	heineken =...heineken	artichok	heineken	artichok	=======>	artichok	33	1
2	59.94	82.62	25.17	1.38	252.00	artichok ==...artichok	heineken	artichok	heineken	=======>	heineken	34	1
2	30.47	41.97	12.79	1.38	128.00	ham ==> ar...ham	artichok	ham	artichok	=======>	artichok	35	1
2	30.47	41.97	12.79	1.38	128.00	artichok ==...artichok	ham	artichok	ham	=======>	ham	36	1
2	29.57	40.54	11.99	1.37	120.00	sardines =...sardines	peppers	sardines	peppers	=======>	peppers	37	1
2	29.57	40.54	11.99	1.37	120.00	peppers ==...peppers	sardines	peppers	sardines	=======>	sardines	38	1
2	47.25	64.32	14.59	1.36	146.00	steak ==> o...steak	olives	steak	olives	=======>	olives	39	1
2	22.68	30.87	14.59	1.36	146.00	olives ==>...olives	steak	olives	steak	=======>	steak	40	1
2	29.57	40.13	12.59	1.36	126.00	apples ==>...apples	sardines	apples	sardines	=======>	sardines	41	1
2	31.37	42.57	12.59	1.36	126.00	sardines =...sardines	apples	sardines	apples	=======>	apples	42	1
2	48.55	65.64	14.89	1.35	149.00	steak ==> h...steak	hering	steak	hering	=======>	hering	43	1
2	22.68	30.66	14.89	1.35	149.00	hering ==>...hering	steak	hering	steak	=======>	steak	44	1

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