

```

1  *-----
   -*
2  User:                u59400043
3  Date:                April 01, 2022
4  Time:                13:26:56
5  *-----
   -*
6  * Training Output
7  *-----
   -*
8
9
10
11
12 Variable Summary
13
14           Measurement      Frequency
15 Role           Level        Count
16
17 INPUT          NOMINAL        3
18 REJECTED       INTERVAL       13
19 REJECTED       NOMINAL        7
20
21
22
23 The CLUSTER Procedure
24 Ward's Minimum Variance Cluster Analysis
25
26           Eigenvalues of the Covariance Matrix
27
28           Eigenvalue      Difference      Proportion      Cumulative
29
30      1      0.22999343      0.01098531      0.1533      0.1533
31      2      0.21900811      0.00635500      0.1460      0.2992
32      3      0.21265311      0.00835180      0.1417      0.4409
33      4      0.20430131      0.00875980      0.1362      0.5771

```

34	5	0.19554152	0.14695218	0.1303	0.7074
35	6	0.04858933	0.00079654	0.0324	0.7398
36	7	0.04779279	0.00045390	0.0319	0.7716
37	8	0.04733889	0.00355762	0.0315	0.8032
38	9	0.04378127	0.00134051	0.0292	0.8324
39	10	0.04244075	0.00110372	0.0283	0.8607
40	11	0.04133703	0.00118255	0.0275	0.8882
41	12	0.04015448	0.00107798	0.0268	0.9150
42	13	0.03907650	0.00246663	0.0260	0.9410
43	14	0.03660986	0.00362640	0.0244	0.9654
44	15	0.03298346	0.03146689	0.0220	0.9874
45	16	0.00151657	0.00019970	0.0010	0.9884
46	17	0.00131687	0.00027029	0.0009	0.9893
47	18	0.00104658	0.00013635	0.0007	0.9900
48	19	0.00091022	0.00009482	0.0006	0.9906
49	20	0.00081540	0.00003134	0.0005	0.9911
50	21	0.00078407	0.00011208	0.0005	0.9916
51	22	0.00067198	0.00001827	0.0004	0.9921
52	23	0.00065371	0.00000436	0.0004	0.9925
53	24	0.00064935	0.00003698	0.0004	0.9930
54	25	0.00061237	0.00001211	0.0004	0.9934
55	26	0.00060026	0.00000946	0.0004	0.9938
56	27	0.00059080	0.00003529	0.0004	0.9942
57	28	0.00055551	0.00001828	0.0004	0.9945
58	29	0.00053724	0.00000575	0.0004	0.9949
59	30	0.00053149	0.00000783	0.0004	0.9952
60	31	0.00052366	0.00001509	0.0003	0.9956
61	32	0.00050858	0.00000002	0.0003	0.9959
62	33	0.00050856	0.00000889	0.0003	0.9963
63	34	0.00049967	0.00004280	0.0003	0.9966
64	35	0.00045687	0.00001064	0.0003	0.9969
65	36	0.00044623	0.00000307	0.0003	0.9972
66	37	0.00044316	0.00002444	0.0003	0.9975
67	38	0.00041872	0.00000546	0.0003	0.9978
68	39	0.00041326	0.00000771	0.0003	0.9981
69	40	0.00040555	0.00002060	0.0003	0.9983

70	41	0.00038495	0.00001003	0.0003	0.9986
71	42	0.00037491	0.00000229	0.0002	0.9988
72	43	0.00037262	0.00007950	0.0002	0.9991
73	44	0.00029312	0.00000771	0.0002	0.9993
74	45	0.00028541	0.00001931	0.0002	0.9995
75	46	0.00026610	0.00004173	0.0002	0.9996
76	47	0.00022436	0.00002324	0.0001	0.9998
77	48	0.00020112	0.00008945	0.0001	0.9999
78	49	0.00011167	0.00011167	0.0001	1.0000
79	50	0.00000000	0.00000000	0.0000	1.0000
80	51	0.00000000	0.00000000	0.0000	1.0000
81	52	0.00000000	0.00000000	0.0000	1.0000
82	53	0.00000000	0.00000000	0.0000	1.0000
83	54	0.00000000	0.00000000	0.0000	1.0000
84	55	0.00000000	0.00000000	0.0000	1.0000
85	56	0.00000000	0.00000000	0.0000	1.0000
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96	67	0.00000000	0.00000000	0.0000	1.0000
97	68	0.00000000	0.00000000	0.0000	1.0000
98	69	0.00000000	0.00000000	0.0000	1.0000
99	70	0.00000000	0.00000000	0.0000	1.0000
100	71	0.00000000	0.00000000	0.0000	1.0000
101	72	0.00000000	0.00000000	0.0000	1.0000
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105	76	0.00000000	0.00000000	0.0000	1.0000

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107	78	0.00000000	0.00000000	0.0000	1.0000
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114	85	0.00000000	0.00000000	0.0000	1.0000
115	86	0.00000000	0.00000000	0.0000	1.0000
116	87	0.00000000	0.00000000	0.0000	1.0000
117	88	0.00000000	0.00000000	0.0000	1.0000
118	89	0.00000000	0.00000000	0.0000	1.0000
119	90	0.00000000	0.00000000	0.0000	1.0000
120	91	0.00000000	0.00000000	0.0000	1.0000
121	92	0.00000000	0.00000000	0.0000	1.0000
122	93	0.00000000	0.00000000	0.0000	1.0000
123	94	0.00000000	0.00000000	0.0000	1.0000
124	95	0.00000000	0.00000000	0.0000	1.0000
125	96	0.00000000	0.00000000	0.0000	1.0000
126	97	0.00000000	0.00000000	0.0000	1.0000
127	98	0.00000000	0.00000000	0.0000	1.0000
128	99	0.00000000	0.00000000	0.0000	1.0000
129	100	0.00000000	0.00000000	0.0000	1.0000
130	101	0.00000000	0.00000000	0.0000	1.0000
131	102	0.00000000	0.00000000	0.0000	1.0000
132	103	0.00000000	0.00000000	0.0000	1.0000
133	104	0.00000000	0.00000000	0.0000	1.0000
134	105	0.00000000	0.00000000	0.0000	1.0000
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138	109	0.00000000	0.00000000	0.0000	1.0000
139	110	0.00000000	0.00000000	0.0000	1.0000
140	111	0.00000000	0.00000000	0.0000	1.0000
141	112	0.00000000	0.00000000	0.0000	1.0000

142	113	0.00000000	0.00000000	0.0000	1.0000
143	114	0.00000000	0.00000000	0.0000	1.0000
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145	116	0.00000000	0.00000000	0.0000	1.0000
146	117	0.00000000	0.00000000	0.0000	1.0000
147	118	0.00000000	0.00000000	0.0000	1.0000
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152	123	0.00000000	0.00000000	0.0000	1.0000
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154	125	0.00000000	0.00000000	0.0000	1.0000
155	126	0.00000000	0.00000000	0.0000	1.0000
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157	128	0.00000000	0.00000000	0.0000	1.0000
158	129	0.00000000	0.00000000	0.0000	1.0000
159	130	0.00000000	0.00000000	0.0000	1.0000
160	131	0.00000000	0.00000000	0.0000	1.0000
161	132	0.00000000	0.00000000	0.0000	1.0000
162	133	0.00000000	0.00000000	0.0000	1.0000
163	134	0.00000000	0.00000000	0.0000	1.0000
164	135	0.00000000	0.00000000	0.0000	1.0000
165	136	0.00000000	0.00000000	0.0000	1.0000
166	137	0.00000000	0.00000000	0.0000	1.0000
167	138	0.00000000	0.00000000	0.0000	1.0000
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169	140	0.00000000	0.00000000	0.0000	1.0000
170	141	0.00000000	0.00000000	0.0000	1.0000
171	142	0.00000000	0.00000000	0.0000	1.0000
172	143	0.00000000	0.00000000	0.0000	1.0000
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174	145	0.00000000	0.00000000	0.0000	1.0000
175	146	0.00000000	0.00000000	0.0000	1.0000
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177	148	0.00000000	0.00000000	0.0000	1.0000

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186	157	0.00000000	0.00000000	0.0000	1.0000
187	158	0.00000000	0.00000000	0.0000	1.0000
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210	181	0.00000000	0.00000000	0.0000	1.0000
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212	183	0.00000000	0.00000000	0.0000	1.0000
213	184	0.00000000	0.00000000	0.0000	1.0000

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223	194	0.00000000	0.00000000	0.0000	1.0000
224	195	0.00000000	0.00000000	0.0000	1.0000
225	196	0.00000000	0.00000000	0.0000	1.0000
226	197	0.00000000	0.00000000	0.0000	1.0000
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228	199	0.00000000	0.00000000	0.0000	1.0000
229	200	0.00000000	0.00000000	0.0000	1.0000
230	201	0.00000000	0.00000000	0.0000	1.0000
231	202	0.00000000	0.00000000	0.0000	1.0000
232	203	0.00000000	0.00000000	0.0000	1.0000
233	204	0.00000000	0.00000000	0.0000	1.0000
234	205	0.00000000	0.00000000	0.0000	1.0000
235	206	0.00000000	0.00000000	0.0000	1.0000
236	207	0.00000000	0.00000000	0.0000	1.0000
237	208	0.00000000	0.00000000	0.0000	1.0000
238	209	0.00000000	0.00000000	0.0000	1.0000
239	210	0.00000000	0.00000000	0.0000	1.0000
240	211	0.00000000	0.00000000	0.0000	1.0000
241	212	0.00000000	0.00000000	0.0000	1.0000
242	213	0.00000000	0.00000000	0.0000	1.0000
243	214	0.00000000	0.00000000	0.0000	1.0000
244	215	0.00000000	0.00000000	0.0000	1.0000
245	216	0.00000000	0.00000000	0.0000	1.0000
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248	219	0.00000000	0.00000000	0.0000	1.0000
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255	226	0.00000000	0.00000000	0.0000	1.0000
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260	231	0.00000000	0.00000000	0.0000	1.0000
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265	236	0.00000000	0.00000000	0.0000	1.0000
266	237	0.00000000	0.00000000	0.0000	1.0000
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274	245	0.00000000	0.00000000	0.0000	1.0000
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277	248	0.00000000	0.00000000	0.0000	1.0000
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285	256	-0.00000000	0.00000000	-0.0000	1.0000



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347	318	-.00000000	0.00000000	-0.0000	1.0000
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351	322	-.00000000	0.00000000	-0.0000	1.0000
352	323	-.00000000	0.00000000	-0.0000	1.0000
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369	340	-.00000000	0.00000000	-0.0000	1.0000
370	341	-.00000000	0.00000000	-0.0000	1.0000
371	342	-.00000000	0.00000000	-0.0000	1.0000
372	343	-.00000000	0.00000000	-0.0000	1.0000
373	344	-.00000000	0.00000000	-0.0000	1.0000
374	345	-.00000000	0.00000000	-0.0000	1.0000
375	346	-.00000000	0.00000000	-0.0000	1.0000
376	347	-.00000000	0.00000000	-0.0000	1.0000
377	348	-.00000000	0.00000000	-0.0000	1.0000
378	349	-.00000000	0.00000000	-0.0000	1.0000
379	350	-.00000000	0.00000000	-0.0000	1.0000
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384	355	-.00000000	0.00000000	-0.0000	1.0000
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386	357	-.00000000	0.00000000	-0.0000	1.0000
387	358	-.00000000	0.00000000	-0.0000	1.0000
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390	361	-.00000000	0.00000000	-0.0000	1.0000
391	362	-.00000000	0.00000000	-0.0000	1.0000
392	363	-.00000000	0.00000000	-0.0000	1.0000
393	364	-.00000000	0.00000000	-0.0000	1.0000

394	365	-.00000000	0.00000000	-0.0000	1.0000
395	366	-.00000000	0.00000000	-0.0000	1.0000
396	367	-.00000000	0.00000000	-0.0000	1.0000
397	368	-.00000000	0.00000000	-0.0000	1.0000
398	369	-.00000000	0.00000000	-0.0000	1.0000
399	370	-.00000000	0.00000000	-0.0000	1.0000
400	371	-.00000000	0.00000000	-0.0000	1.0000
401	372	-.00000000	0.00000000	-0.0000	1.0000
402	373	-.00000000	0.00000000	-0.0000	1.0000
403	374	-.00000000	0.00000000	-0.0000	1.0000
404	375	-.00000000	0.00000000	-0.0000	1.0000
405	376	-.00000000	0.00000000	-0.0000	1.0000
406	377	-.00000000	0.00000000	-0.0000	1.0000
407	378	-.00000000	0.00000000	-0.0000	1.0000
408	379	-.00000000	0.00000000	-0.0000	1.0000
409	380	-.00000000	0.00000000	-0.0000	1.0000
410	381	-.00000000	0.00000000	-0.0000	1.0000
411	382	-.00000000	0.00000000	-0.0000	1.0000
412	383	-.00000000	0.00000000	-0.0000	1.0000
413	384	-.00000000	0.00000000	-0.0000	1.0000
414	385	-.00000000	0.00000000	-0.0000	1.0000
415	386	-.00000000	0.00000000	-0.0000	1.0000
416	387	-.00000000	0.00000000	-0.0000	1.0000
417	388	-.00000000	0.00000000	-0.0000	1.0000
418	389	-.00000000	0.00000000	-0.0000	1.0000
419	390	-.00000000	0.00000000	-0.0000	1.0000
420	391	-.00000000	0.00000000	-0.0000	1.0000
421	392	-.00000000	0.00000000	-0.0000	1.0000
422	393	-.00000000	0.00000000	-0.0000	1.0000
423	394	-.00000000	0.00000000	-0.0000	1.0000
424	395	-.00000000	0.00000000	-0.0000	1.0000
425	396	-.00000000	0.00000000	-0.0000	1.0000
426	397	-.00000000	0.00000000	-0.0000	1.0000
427	398	-.00000000	0.00000000	-0.0000	1.0000
428	399	-.00000000	0.00000000	-0.0000	1.0000
429	400	-.00000000	0.00000000	-0.0000	1.0000

430	401	-.00000000	0.00000000	-0.0000	1.0000
431	402	-.00000000	0.00000000	-0.0000	1.0000
432	403	-.00000000	0.00000000	-0.0000	1.0000
433	404	-.00000000	0.00000000	-0.0000	1.0000
434	405	-.00000000	0.00000000	-0.0000	1.0000
435	406	-.00000000	0.00000000	-0.0000	1.0000
436	407	-.00000000	0.00000000	-0.0000	1.0000
437	408	-.00000000	0.00000000	-0.0000	1.0000
438	409	-.00000000	0.00000000	-0.0000	1.0000
439	410	-.00000000	0.00000000	-0.0000	1.0000
440	411	-.00000000	0.00000000	-0.0000	1.0000
441	412	-.00000000	0.00000000	-0.0000	1.0000
442	413	-.00000000	0.00000000	-0.0000	1.0000
443	414	-.00000000	0.00000000	-0.0000	1.0000
444	415	-.00000000	0.00000000	-0.0000	1.0000
445	416	-.00000000	0.00000000	-0.0000	1.0000
446	417	-.00000000	0.00000000	-0.0000	1.0000
447	418	-.00000000	0.00000000	-0.0000	1.0000
448	419	-.00000000	0.00000000	-0.0000	1.0000
449	420	-.00000000	0.00000000	-0.0000	1.0000
450	421	-.00000000	0.00000000	-0.0000	1.0000
451	422	-.00000000	0.00000000	-0.0000	1.0000
452	423	-.00000000	0.00000000	-0.0000	1.0000
453	424	-.00000000	0.00000000	-0.0000	1.0000
454	425	-.00000000	0.00000000	-0.0000	1.0000
455	426	-.00000000	0.00000000	-0.0000	1.0000
456	427	-.00000000	0.00000000	-0.0000	1.0000
457	428	-.00000000	0.00000000	-0.0000	1.0000
458	429	-.00000000	0.00000000	-0.0000	1.0000
459	430	-.00000000	0.00000000	-0.0000	1.0000
460	431	-.00000000	0.00000000	-0.0000	1.0000
461	432	-.00000000	0.00000000	-0.0000	1.0000
462	433	-.00000000	0.00000000	-0.0000	1.0000
463	434	-.00000000	0.00000000	-0.0000	1.0000
464	435	-.00000000	0.00000000	-0.0000	1.0000
465	436	-.00000000	0.00000000	-0.0000	1.0000

466	437	-.00000000	0.00000000	-0.0000	1.0000
467	438	-.00000000	0.00000000	-0.0000	1.0000
468	439	-.00000000	0.00000000	-0.0000	1.0000
469	440	-.00000000	0.00000000	-0.0000	1.0000
470	441	-.00000000	0.00000000	-0.0000	1.0000
471	442	-.00000000	0.00000000	-0.0000	1.0000
472	443	-.00000000	0.00000000	-0.0000	1.0000
473	444	-.00000000	0.00000000	-0.0000	1.0000
474	445	-.00000000	0.00000000	-0.0000	1.0000
475	446	-.00000000	0.00000000	-0.0000	1.0000
476	447	-.00000000	0.00000000	-0.0000	1.0000
477	448	-.00000000	0.00000000	-0.0000	1.0000
478	449	-.00000000	0.00000000	-0.0000	1.0000
479	450	-.00000000	0.00000000	-0.0000	1.0000
480	451	-.00000000	0.00000000	-0.0000	1.0000
481	452	-.00000000	0.00000000	-0.0000	1.0000
482	453	-.00000000	0.00000000	-0.0000	1.0000
483	454	-.00000000	0.00000000	-0.0000	1.0000
484	455	-.00000000	0.00000000	-0.0000	1.0000
485	456	-.00000000	0.00000000	-0.0000	1.0000
486	457	-.00000000	0.00000000	-0.0000	1.0000
487	458	-.00000000		-0.0000	1.0000

488

489 Root-Mean-Square Total-Sample Standard Deviation 0.077131

490

491 Root-Mean-Square Distance Between Observations 2.334393

492

493

494 Cluster His

tory

495 Number

496 of

Sem

ipartial

Pseudo F

Pseudo

497 Clusters -----Clusters Joined----- Freq

R-Square

R-Square

Statistic

t-Squared

Tie

498

499	49	OB7	OB34	10
	0.0000	.551	837	.
500	48	OB6	OB33	1120
	0.0001	.551	855	6.9
501	47	OB1	OB50	1229
	0.0001	.550	873	10.0
502	46	OB37	OB43	1050
	0.0001	.550	892	17.1
503	45	CL49	OB8	30
	0.0001	.550	912	70.2
504	44	OB9	OB32	17
	0.0001	.550	932	26.7
505	43	OB14	OB29	25
	0.0001	.550	954	.
506	42	CL47	OB23	1241
	0.0001	.550	977	13.3
507	41	OB11	CL43	39
	0.0002	.550	1001	39.9
508	40	CL48	OB36	1133
	0.0002	.550	1026	12.7
509	39	OB41	OB47	28
	0.0002	.549	1052	. T
510	38	OB10	CL39	43
	0.0002	.549	1080	43.2
511	37	OB17	OB19	2953
	0.0002	.549	1109	11.7
512	36	CL41	OB16	55
	0.0002	.549	1140	30.9
513	35	OB35	OB48	4252
	0.0002	.549	1173	10.6
514	34	CL36	OB38	72
	0.0002	.549	1208	27.7
515	33	OB15	OB40	949
	0.0002	.548	1244	12.1
516	32	OB12	OB21	34
	0.0002	.548	1284	.

517	31	OB26	OB28	1129
	0.0002	.548	1325	23.7
518	30	OB4	OB31	1268
	0.0002	.548	1370	20.0
519	29	CL32	OB30	55
	0.0002	.548	1418	61.0
520	28	OB5	CL34	1022
	0.0002	.547	1469	20.6
521	27	OB3	CL44	6016
	0.0002	.547	1524	12.4
522	26	OB42	OB49	1408
	0.0002	.547	1584	23.3
523	25	CL30	OB46	1288
	0.0002	.547	1648	23.4
524	24	OB24	OB39	43
	0.0002	.546	1718	.
525	23	CL42	OB20	1262
	0.0002	.546	1795	23.2
526	22	OB18	OB25	2761
	0.0002	.546	1878	15.5
527	21	CL28	CL24	1065
	0.0003	.546	1970	25.1
528	20	CL37	OB22	2970
	0.0003	.545	2072	18.8
529	19	CL22	OB27	2781
	0.0003	.545	2184	20.3
530	18	CL29	CL46	1105
	0.0003	.545	2309	51.1
531	17	CL27	CL45	6046
	0.0005	.544	2449	26.0
532	16	CL38	CL35	4295
	0.0005	.544	2607	33.4
533	15	CL23	CL33	2211
	0.0129	.531	2652	999
534	14	CL21	CL19	3846
	0.0138	.517	2702	940



535	13	CL40	CL16	5428
	0.0144	.503	2764	932
536	12	CL15	CL25	3499
	0.0146	.488	2843	941
537	11	CL14	CL18	4951
	0.0152	.473	2943	962
538	10	CL20	CL31	4099
	0.0152	.458	3077	1188
539	9	OB2	OB45	4288
	0.0163	.441	3241	1106
540	8	CL10	CL26	5507
	0.0170	.424	3457	1147
541	7	CL9	OB13	5746
	0.0173	.407	3755	1070
542	6	CL12	OB44	5155
	0.0177	.389	4185	1078
543	5	CL6	CL11	10106
	0.0721	.317	3812	3723
544	4	CL5	CL13	15534
	0.0756	.242	3485	3209
545	3	CL4	CL8	21041
	0.0774	.164	3224	3016
546	2	CL3	CL7	26787
	0.0801	.084	3012	2949
547	1	CL2	CL17	32833
	0.0840	.000	.	3012

548

549

550

551 Candidates for Optimum Number of Clusters

552

553           Number           Clustering

554           of               Cubic

555 Obs       Clusters       Criterion

556

557   1           6           517.486

558 2 16 668.174  
559 3 36 574.012  
560 4 39 649.799

561

562

563 \*-----  
-\*

564 \* Score Output

565 \*-----  
-\*

566

567

568 \*-----  
-\*

569 \* Report Output

570 \*-----  
-\*

571

572

573

574

575 Variable Importance

576

			Number of	Number of	
			Splitting	Surrogate	
579	Variable Name	Label	Rules	Rules	Importance

580

581	playlist_subgenre		2	2	1.
	00000				

582	playlist_name		0	4	0.
	99354				

583	playlist_genre		2	0	0.
	78488				