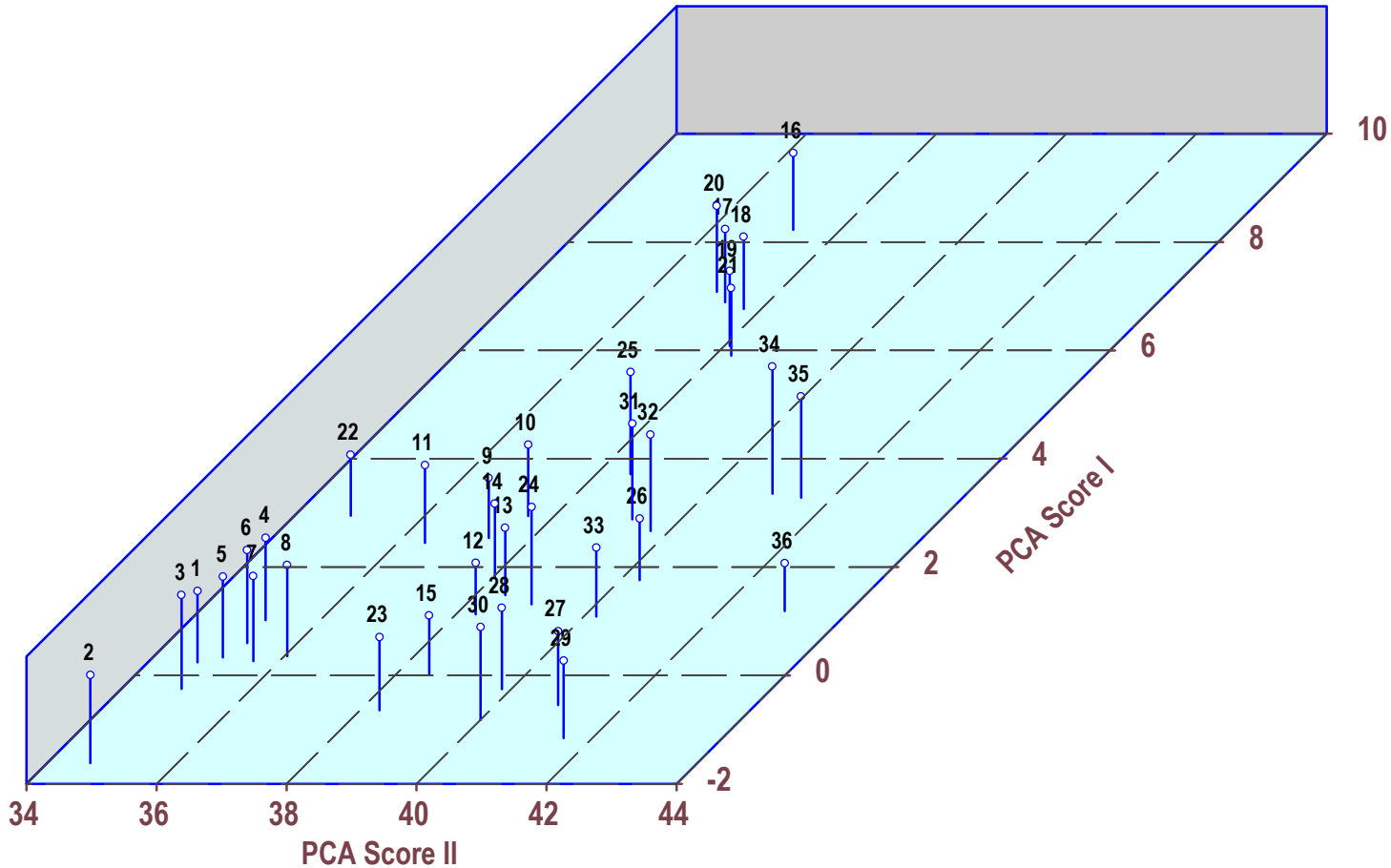


Canonical Roots Analysis

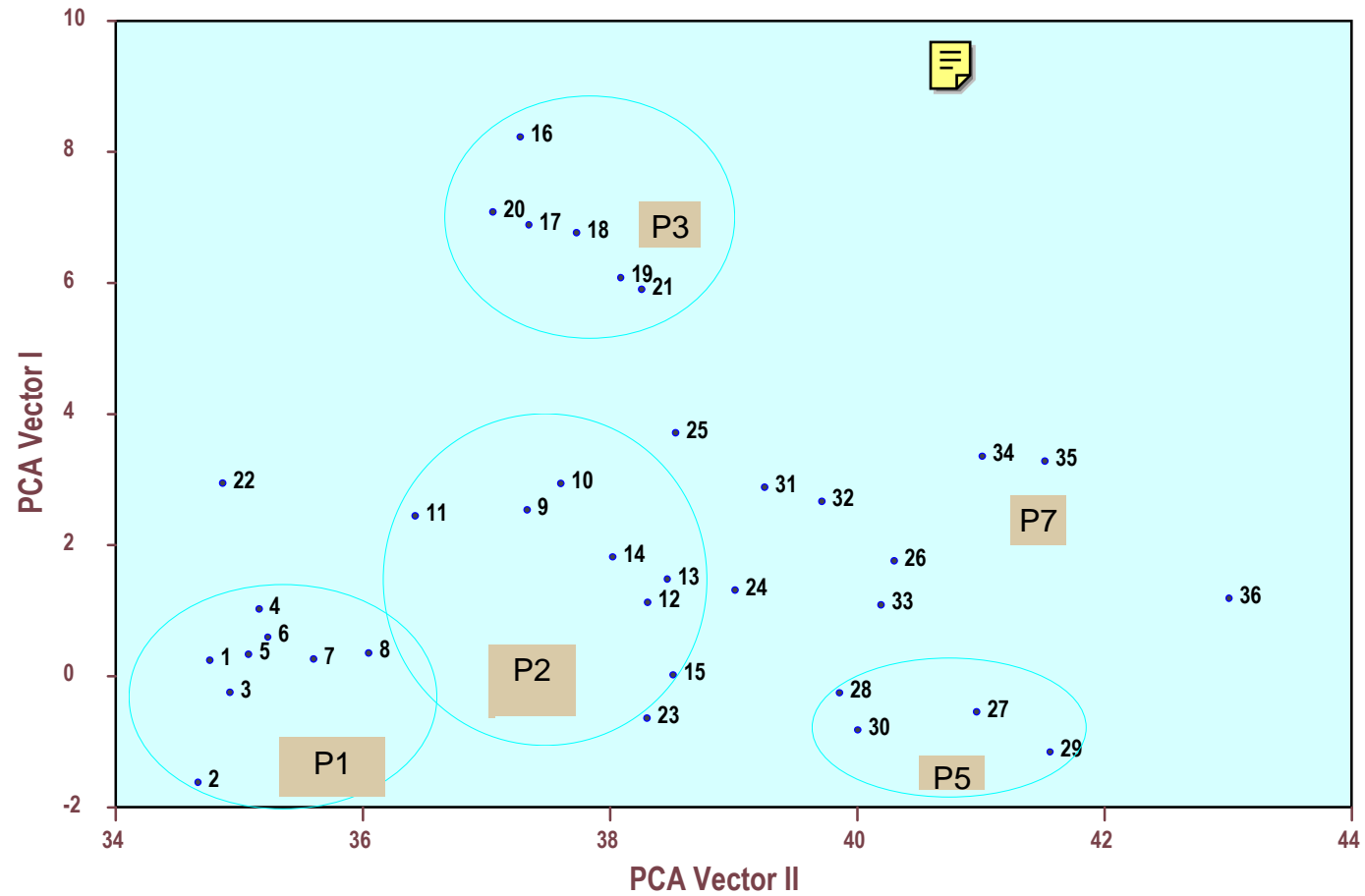
	1 Vector	2 Vector	3 Vector	4 Vector
Root	228.83430	171.71730	84.88644	39.03352
% Var. Exp.	37.50489	28.14368	13.91250	6.39741
Cum. Var. Exp.	37.50489	65.64857	79.56108	85.95849
1 Plant Height cm	0.12796	0.06391	0.30850	0.23203
2 Days to Maturity	-0.07769	0.37558	-0.37665	-0.19793
3 Peduncle Volume	-0.36644	0.08315	-0.31755	0.50913
4 Earhead Nos.	0.29579	-0.02333	0.27592	0.14838
5 Earhead Length cm	-0.68379	0.26997	0.52467	-0.22649
6 Spikes/Main Earhead	0.00736	0.72175	-0.15560	0.31647
7 Seeds/Spikeltee of M	0.04568	-0.19365	-0.29451	0.25822
8 Main Earhead Wt.	-0.49307	-0.42640	-0.14807	0.22269
9 Total Biomass	-0.20340	-0.18346	-0.08333	-0.07089
10 Grain Yield/Plant g	0.04038	-0.02470	0.41338	0.59415

Genotype	X Vector	Y Vector	Z Vector
1 COGG -2*LGG -460	0.244	34.762	-6.886
2 COGG -2*LGG -410	-1.619	34.666	-8.549
3 COGG -2*COGG -22	-0.248	34.925	-9.109
4 COGG -2*ML -26 - 7	1.023	35.159	-7.963
5 COGG -2*PUSA -105	0.334	35.075	-7.827
6 ML -267*LGG -460	0.595	35.231	-9.019
7 ML -267*LGG -410	0.264	35.601	-8.243
8 ML -267*COGG -22	0.353	36.047	-8.817
9 ML -267*ML -26 - 7	2.539	37.329	-5.808
10 ML -267*PUSA -105	2.941	37.601	-6.907
11 PUSA -105*LGG -460	2.449	36.423	-7.527
12 PUSA -105*LGG -410	1.127	38.305	-5.001
13 PUSA -105*COGG -22	1.480	38.463	-6.519
14 PUSA -105*ML -26 - 7	1.821	38.021	-7.081
15 PUSA -105*PUSA -105	0.019	38.510	-5.709
16 RMG -275*LGG -460	8.227	37.274	-7.413
17 RMG -275*LGG -410	6.887	37.343	-7.084
18 RMG -275*COGG -22	6.766	37.729	-6.997
19 RMG -275*ML -26 - 7	6.080	38.087	-7.267
20 RMG -275*PUSA -105	7.082	37.051	-8.317
21 PDM -89 - *LGG -460	5.901	38.255	-6.555
22 PDM -89 - *LGG -410	2.946	34.865	-5.918
23 PDM -89 - *COGG -22	-0.641	38.299	-7.066
24 PDM -89 - *ML -26 - 7	1.312	39.011	-9.443
25 PDM -89 - *PUSA -105	3.713	38.531	-9.919
26 COGG -2	1.760	40.298	-5.962
27 ML -267	-0.546	40.965	-7.137
28 PUSA -105	-0.254	39.857	-7.896
29 RMG -275	-1.155	41.559	-7.488
30 PDM -89 - 221	-0.821	40.003	-8.988
31 LGG -460	2.884	39.251	-9.256
32 LGG -410	2.667	39.712	-9.345
33 COGG -22	1.087	40.193	-6.677
34 ML -26 - 7	3.356	41.010	-12.322
35 PUSA -105 / A	3.279	41.517	-9.822
36	1.189	43.008	-4.632

3D Plot



2D Plot



Determinant of Error Matrix			78856.45634E-4
Determinant of Error + Variety Matrix			92786.76962E+4
Wilk's Criterion			84986.74613E-13
M	81	V statistics	1505.25200
Degree of Freedom	350	Probability	0.00000

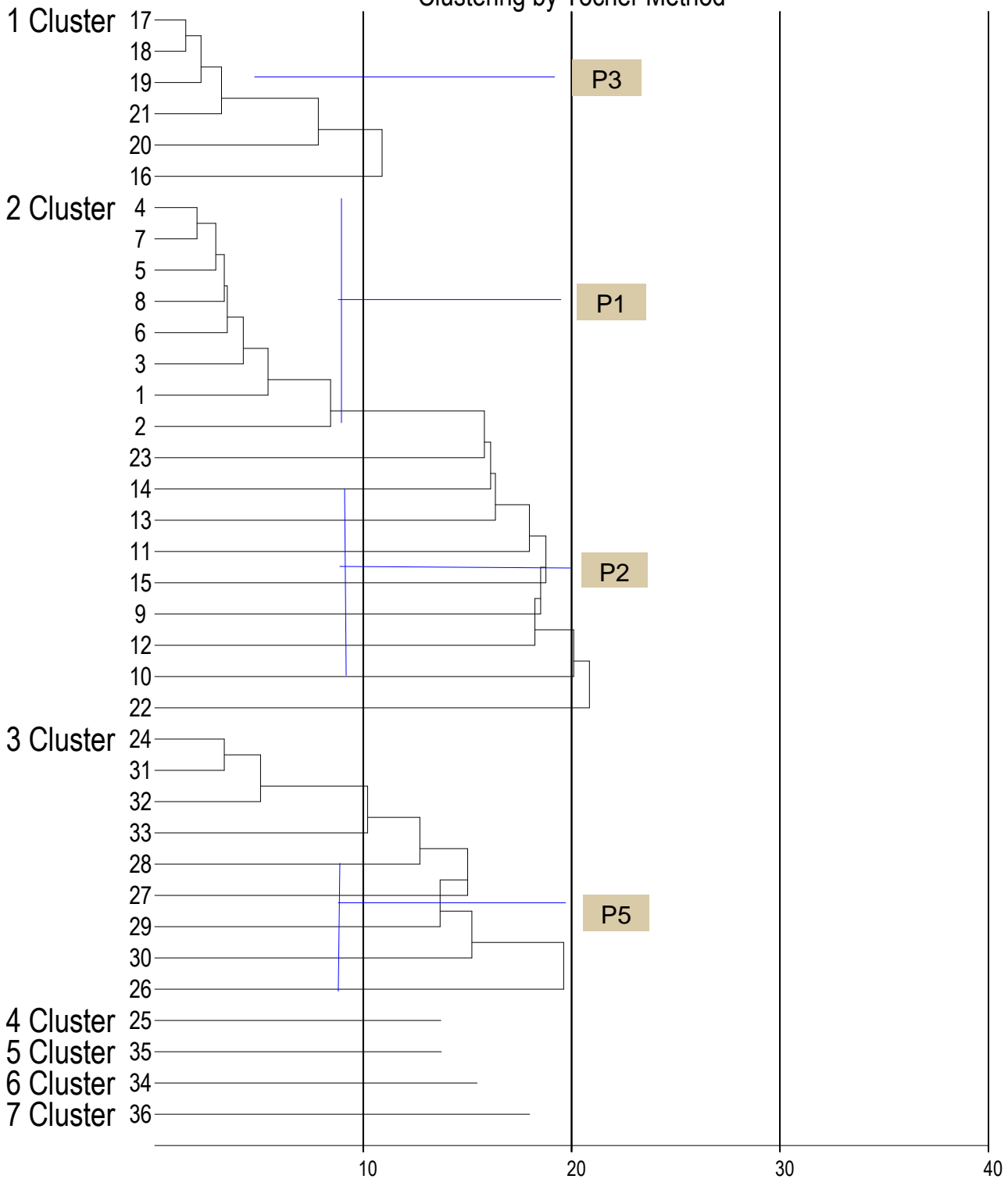
ANOVA for DISPERSION

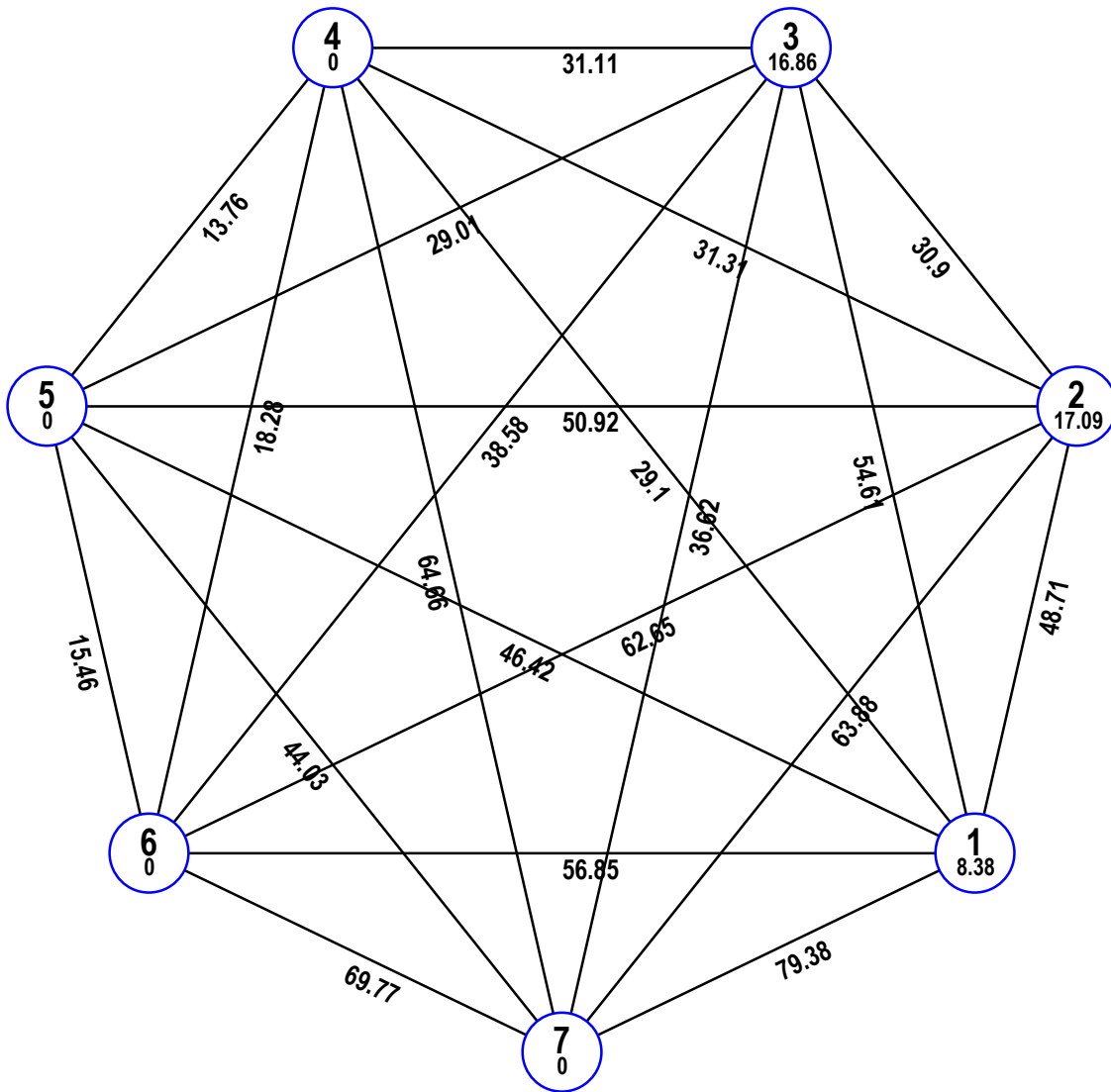
Source of Variations	df	Sum of Squares	Mean Squares	F Ratio	Probability
Varieties	35	9.2787E08	2.6511E07	2.320E08	0.00000 ***
Error	69	7.8856E00	1.1428E-01		
Total	104	9.2787E08	8.9218E06		

Source	Times Ranked 1st	Contribution %
1 Plant Height cm	20	3.17 %
2 Days to Maturity	32	5.08 %
3 Peduncle Volume	44	6.98 %
4 Earhead Nos.	29	4.60 %
5 Earhead Length cm	185	29.37 %
6 Spikes/Main Earhead	137	21.75 %
7 Seeds/Spikeltee of M	23	3.65 %
8 Main Earhead Wt.	121	19.21 %
9 Total Biomass	10	1.59 %
10 Grain Yield/Plant g	29	4.60 %

Tocher Cut-off Value = 17.99

Clustering by Tocher Method





Mahlnbobilis Euclidean² Distances (Not to the Scale)

Mahlnbobilis Euclidean² Cluster Distances

	Group. 1	Group. 2	Group. 3	Group. 4	Group. 5	Group. 6	Group. 7
Group. 1	8.38	48.71	54.61	29.10	46.42	56.85	79.38
Group. 2	48.71	17.09	30.90	31.31	50.92	62.65	63.88
Group. 3	54.61	30.90	16.86	31.11	29.01	38.58	36.62
Group. 4	29.10	31.31	31.11	0.00	13.76	18.28	64.66
Group. 5	46.42	50.92	29.01	13.76	0.00	15.46	44.03
Group. 6	56.85	62.65	38.58	18.28	15.46	0.00	69.77
Group. 7	79.38	63.88	36.62	64.66	44.03	69.77	0.00

Cluster Means

	Char. 1	Char. 2	Char. 3	Char. 4	Char. 5	Char. 6	Char. 7	Char. 8	Char. 9	Char. 10
Group. 1	78.27	109.51	2.40	16.63	8.33	16.79	2.75	2.14	43.93	22.45
Group. 2	74.36	110.82	3.10	12.86	10.62	16.08	2.92	2.97	45.33	22.71
Group. 3	75.72	114.53	3.80	14.15	11.23	18.79	2.71	2.89	49.86	24.42
Group. 4	71.92	118.53	2.79	14.93	9.34	16.47	2.87	2.48	50.19	22.08
Group. 5	68.04	119.80	2.83	13.20	9.87	18.40	2.60	2.25	36.62	16.73
Group. 6	72.75	120.13	3.60	11.53	9.16	18.27	2.43	2.28	37.57	15.60
Group. 7	79.72	111.80	2.98	11.07	12.44	20.00	2.04	2.01	33.13	14.29

Mark Highest and Lowest values for each character.
It will let you understand the highlights of each cluster.