

NAMA : NOVI TRISTANTI
NIM : L200170167
KELAS : F

PRAKTIKUM

a. Svd

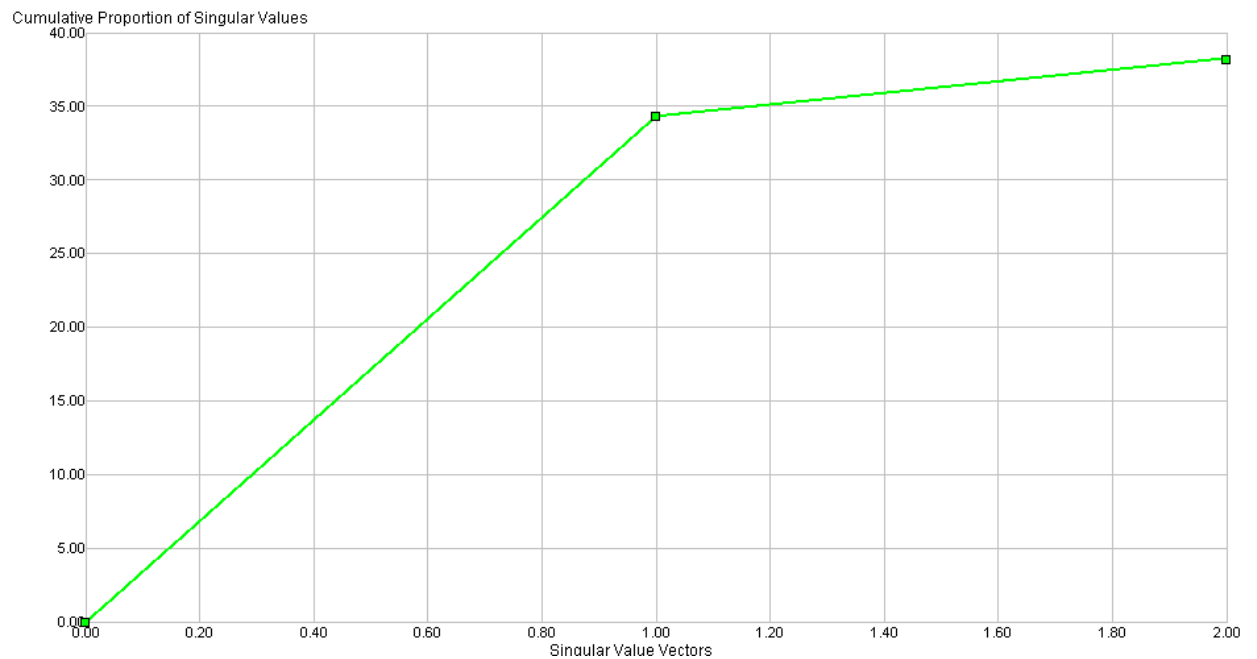
i. Nilai eigenvalue

Component	Singular Value	Proportion of Singular Values	Cumulative Singular Values	Cumulative Proportion of Sin...
SVD 1	34.340	0.898	34.340	0.898
SVD 2	3.906	0.102	38.246	1.000

ii. Nilai svd vectors

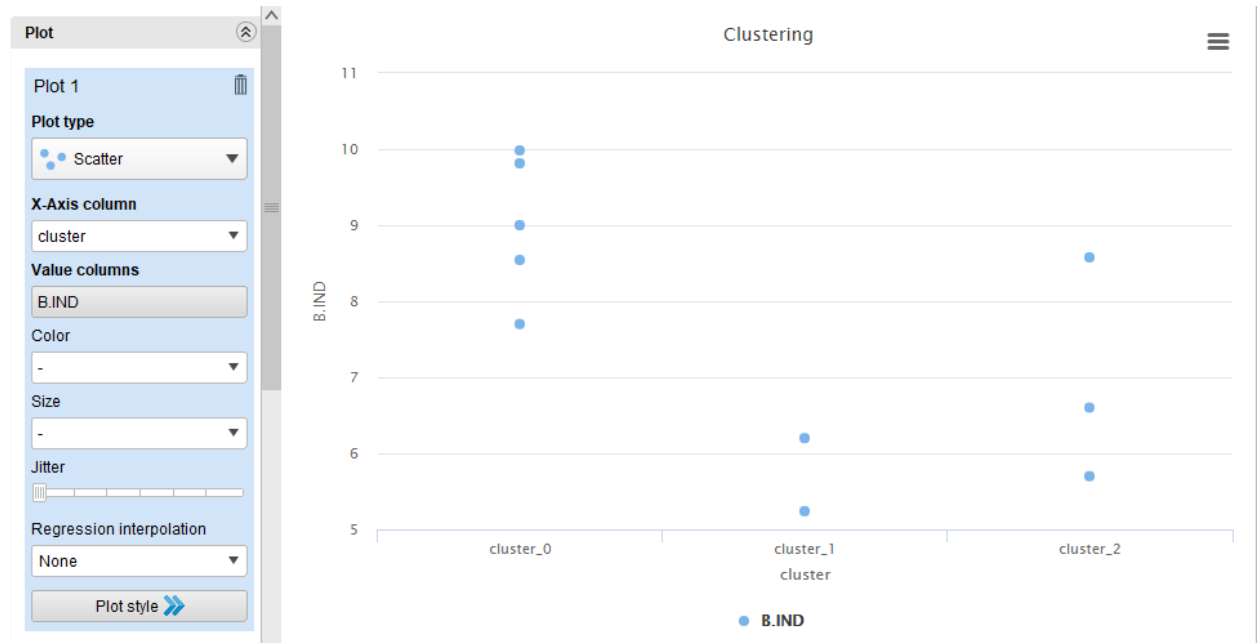
Attribute	SVD Vector 1
B.IND	0.723
B.ING	0.690

iii. Nilai cumulative variance

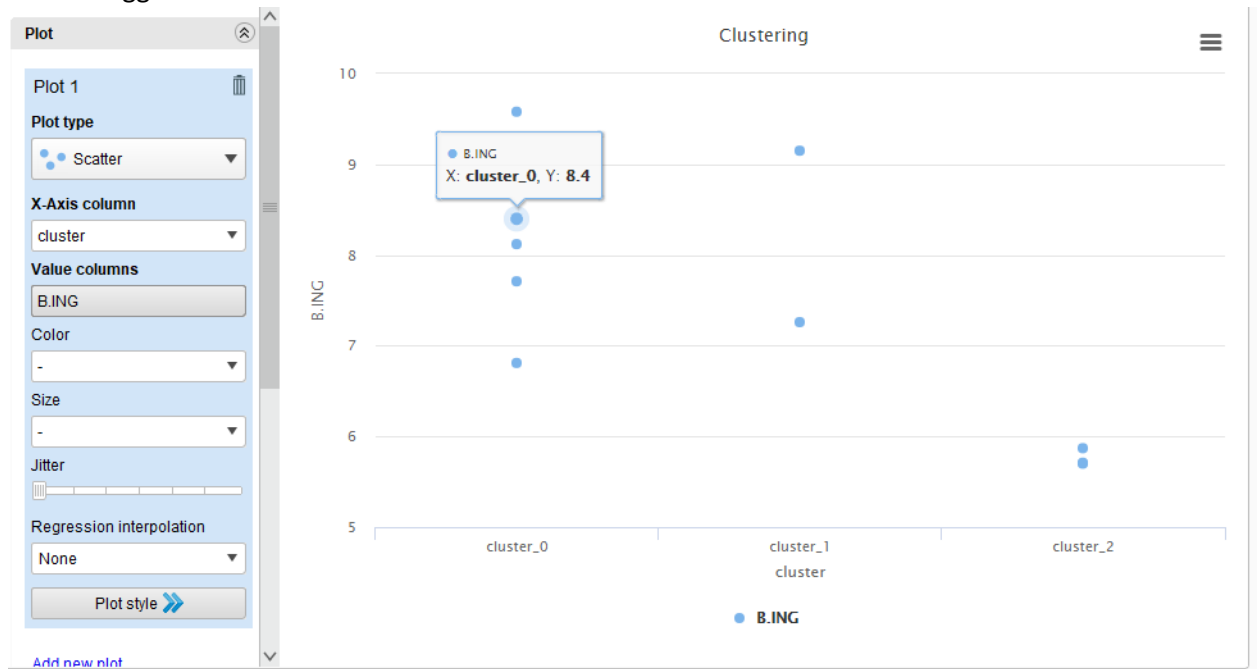


b. Exampleset (k-means)

i. Bahasa indonesia



ii. Bahasa inggris



c. Exampleset (svd)

Row No.	NAMA	cluster	svd_1
1	JOKO	cluster_0	0.349
2	AGUS	cluster_0	0.347
3	SUSI	cluster_1	0.315
4	DYAH	cluster_1	0.256
5	WATI	cluster_2	0.235
6	IKA	cluster_2	0.299
7	EKO	cluster_0	0.317
8	YANTO	cluster_2	0.254
9	WAWAN	cluster_0	0.353
10	MAHMUD	cluster_0	0.399

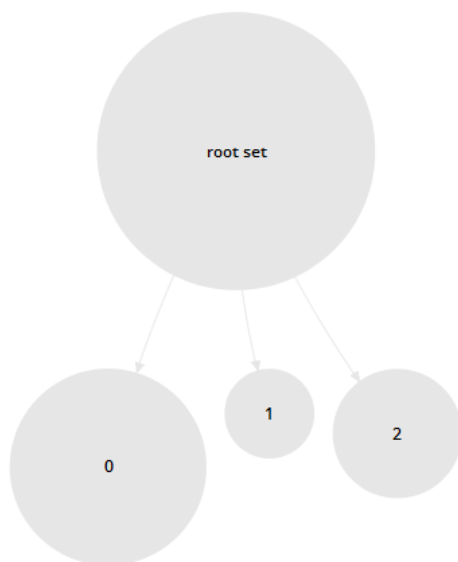
d. Cluster model (Clustering)

i. Description

Cluster Model

```
Cluster 0: 5 items  
Cluster 1: 2 items  
Cluster 2: 3 items  
Total number of items: 10
```

ii. Graph



TUGAS

a. Svd

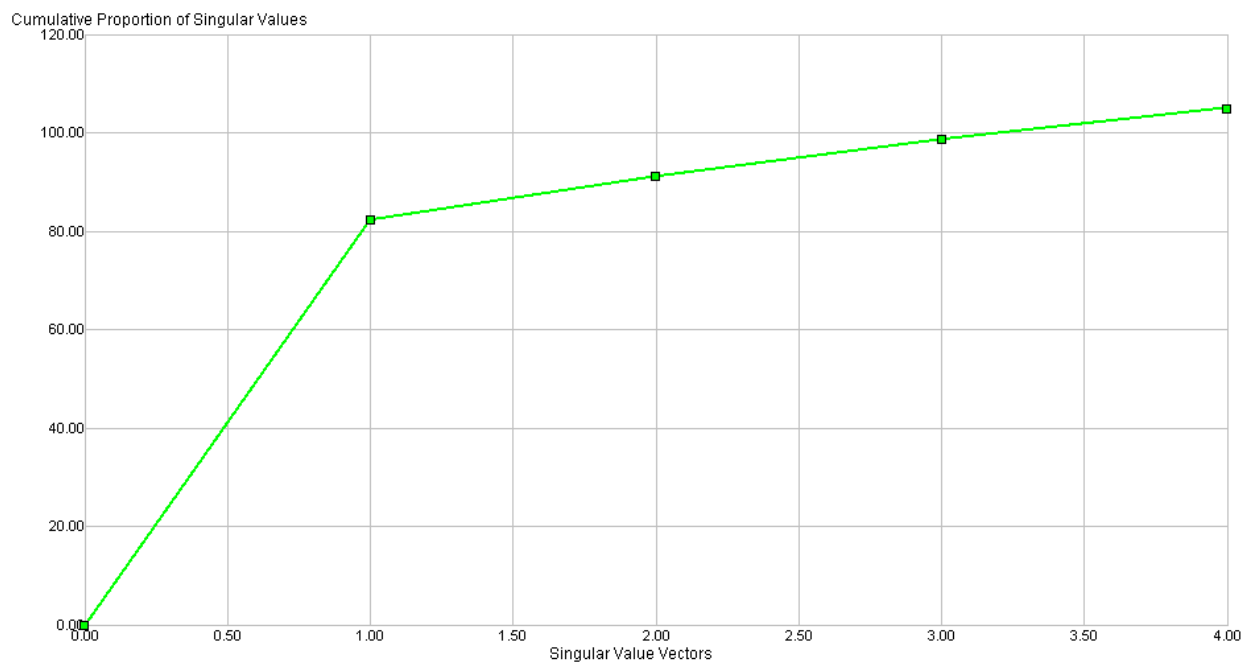
Nilai eigenvalue

Component	Singular Value	Proportion of Singular Values	Cumulative Singular Values	Cumulative Proportion of Sin...
SVD 1	82.392	0.784	82.392	0.784
SVD 2	8.848	0.084	91.240	0.868
SVD 3	7.485	0.071	98.725	0.940
SVD 4	6.337	0.060	105.063	1.000

Nilai svd vectors

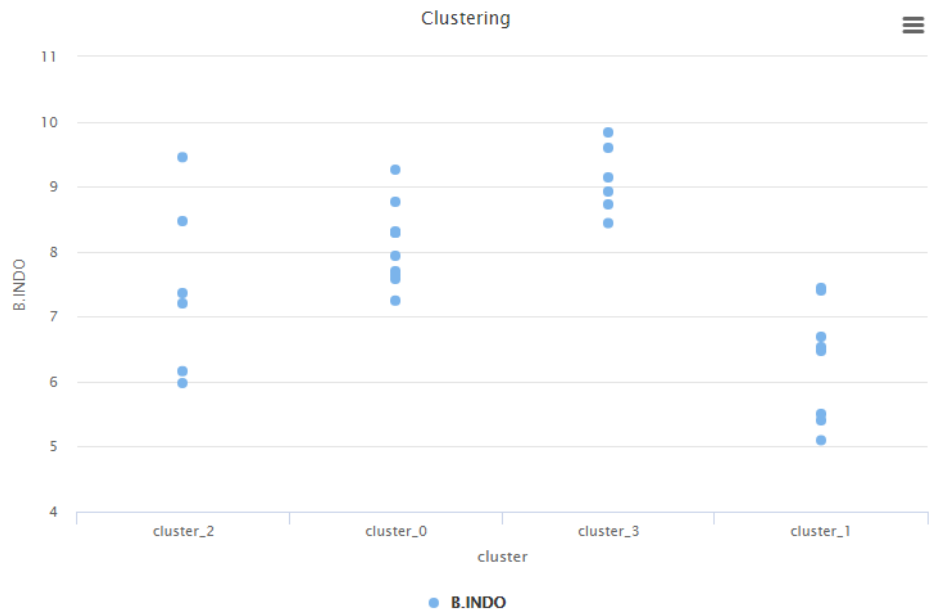
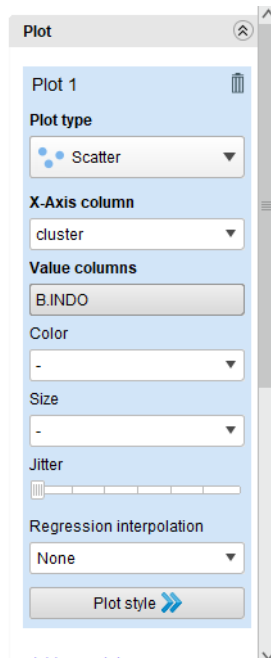
Attribute	SVD Vector 1	SVD Vector 2	SVD Vector 3
B.INDO	0.513	-0.395	0.033
B.ING	0.509	-0.516	0.295
MTK	0.491	0.228	-0.822
IPA	0.486	0.725	0.486

Nilai cumulative variance

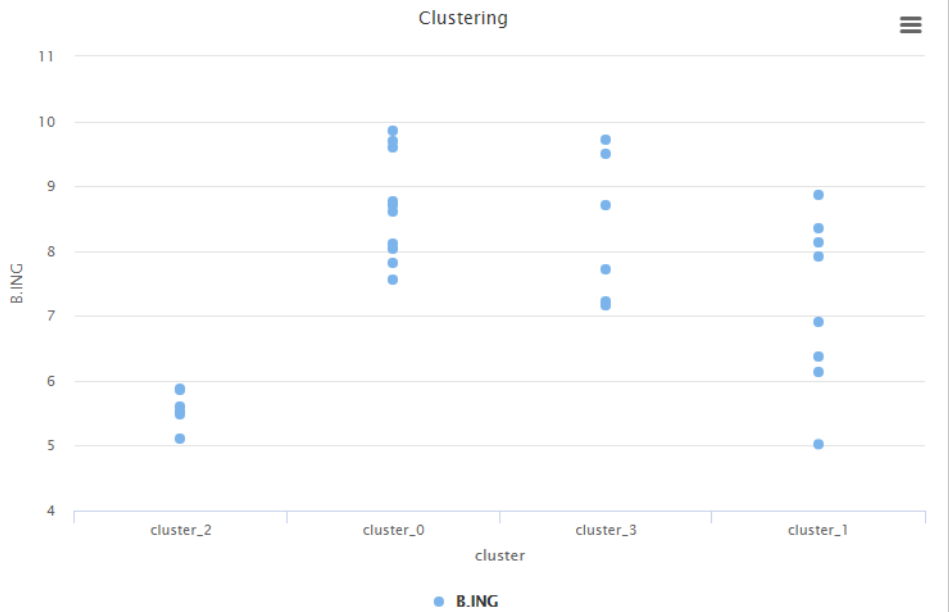
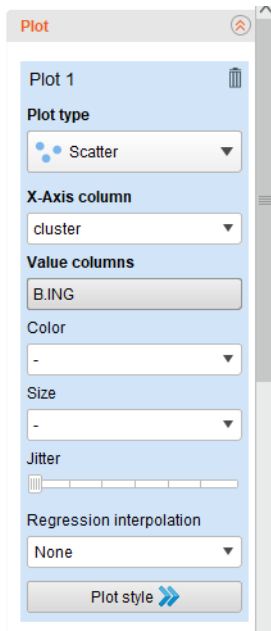


b. Exampleset (k-means)

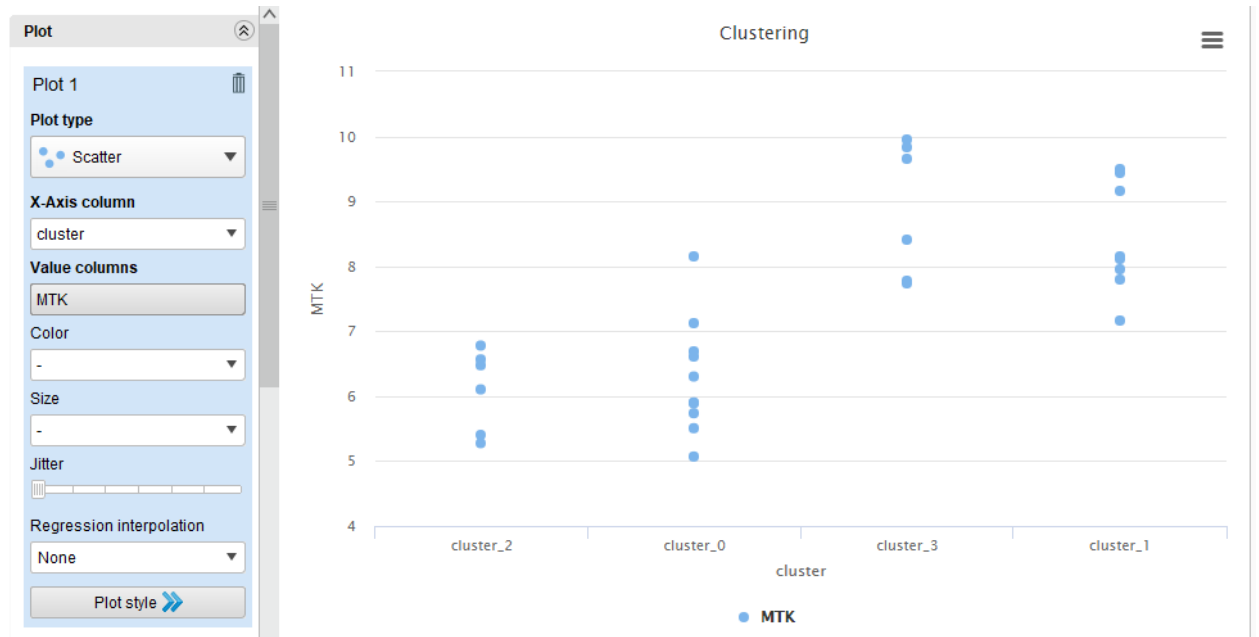
Bahasa indonesia



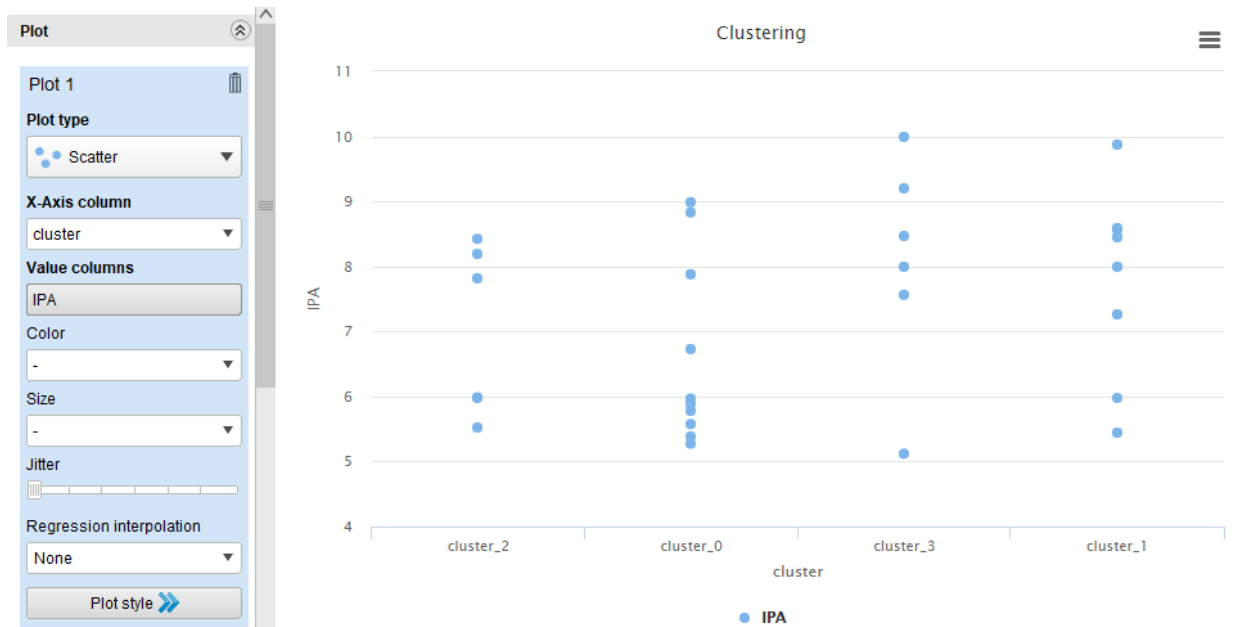
Bahasa inggris



Mtk



Ipa



c. Exampleset (svd)

Open in



Turbo Prep



Auto Model

Row No.	NAMA	cluster	svd_1
1	JOKO	cluster_2	0.167
2	AGUS	cluster_0	0.182
3	SUSI	cluster_3	0.190
4	DYAH	cluster_2	0.146
5	WATI	cluster_3	0.197
6	IKA	cluster_1	0.192
7	EKO	cluster_1	0.183
8	YANTO	cluster_0	0.171
9	WAWAN	cluster_1	0.178
10	MAHMUD	cluster_3	0.209
11	BUDI	cluster_2	0.173
12	SANTI	cluster_0	0.173
13	DIAN	cluster_1	0.184

Row No.	NAMA	cluster	svd_1
14	DANI	cluster_1	0.168
15	AHMAD	cluster_2	0.148
16	BAYU	cluster_0	0.191
17	RISA	cluster_0	0.195
18	RANI	cluster_3	0.227
19	YANI	cluster_2	0.150
20	RATIH	cluster_3	0.215
21	INDAH	cluster_0	0.178
22	JONO	cluster_1	0.176
23	SARAH	cluster_0	0.182
24	RAMA	cluster_1	0.180
25	BAMBANG	cluster_0	0.173
26	HADI	cluster_0	0.185

27	NANA	cluster_3	0.214
28	FEBRI	cluster_1	0.178
29	DENI	cluster_0	0.177
30	TONI	cluster_2	0.165

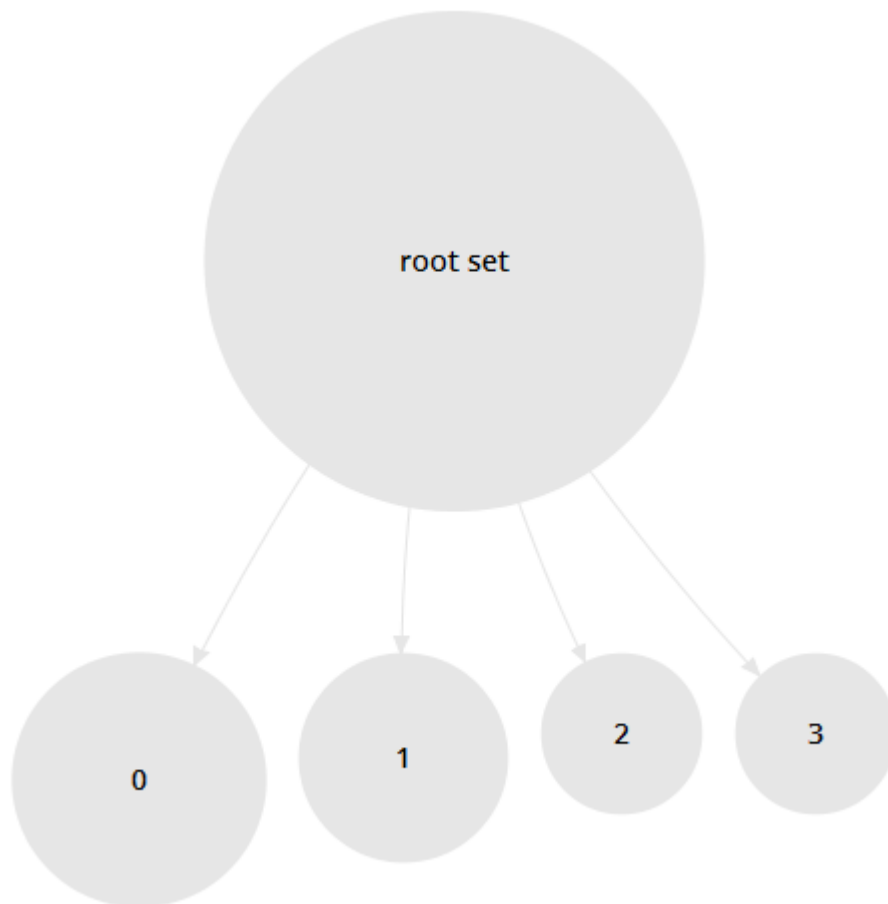
d. Cluster model (Clustering)

Description

Cluster Model

```
Cluster 0: 10 items
Cluster 1: 8 items
Cluster 2: 6 items
Cluster 3: 6 items
Total number of items: 30
```

Graph



- e. Tulislah masing-masing nama siswa yang terdapat dalam kelompok cluster 0, cluster 1, cluster 2, cluster 3.

CLUSTER	NAMA
0	AGUS
0	YANTO
0	SANTI
0	BAYU
0	RISA
0	INDAH
0	SARAH
0	BAMBANG
0	HADI
0	DENI
1	IKA
1	EKO
1	WAWAN
1	DIAN
1	DANI
1	JONO
1	RAMA
1	FEBRI
2	JOKO
2	DYAH
2	BUDI
2	AHMAD
2	YANI
2	TONI
3	SUSI
3	WATI
3	MAHMUD
3	RANI
3	RATIH
3	NANA