

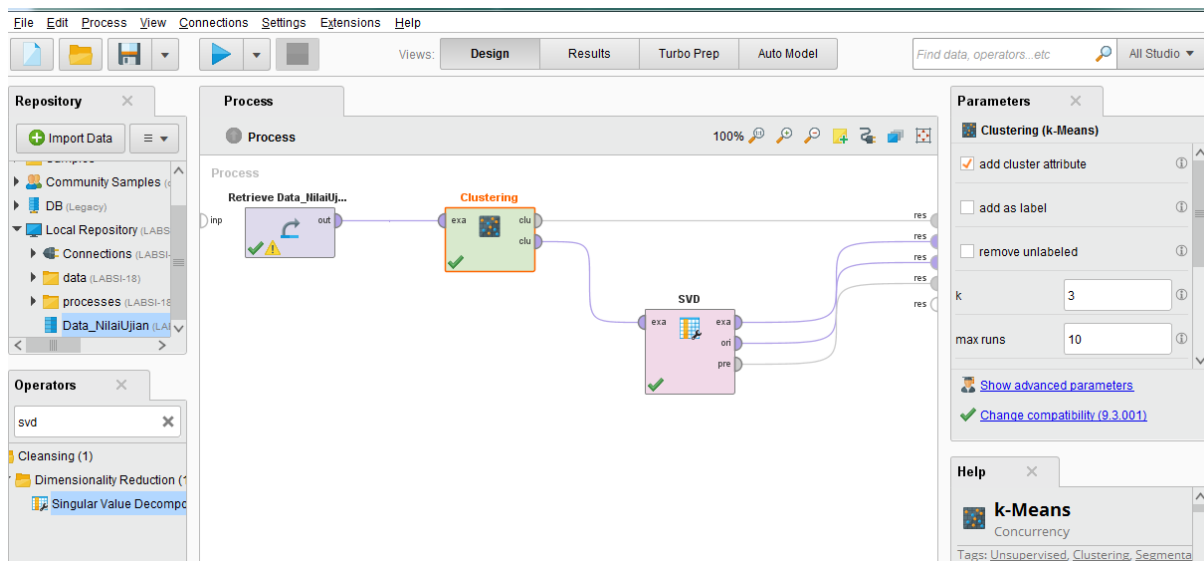
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Nim : L20017760

Kleas : C

## TUGAS

### Menambah operator k-menas menajdi 4

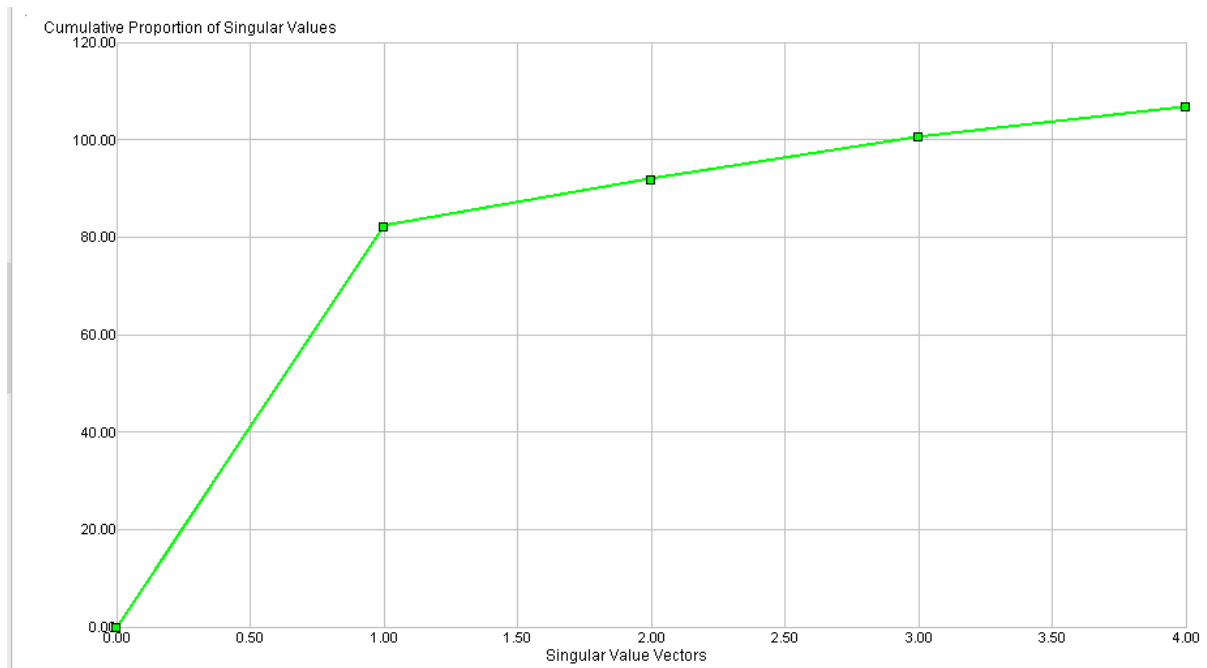


### Svd (singular value decomposition)

Component	Singular Value	Proportion of Singular Valu...	Cumulative Singular Values	Cumulative Proportion of S...
SVD 1	82.317	0.770	82.317	0.770
SVD 2	9.634	0.090	91.951	0.860
SVD 3	8.717	0.082	100.668	0.942

Attribute	SVD Vector 1	SVD Vector 2	SVD Vector 3
B.INDO	0.492	0.468	-0.496
B.ING	0.484	-0.251	-0.495
MTK	0.495	0.506	0.639
IPA	0.528	-0.680	0.317

## Nilai cumulative variance



### Example set svd



Row No.	NAMA	cluster	svd_1
1	JOKO	cluster_1	0.185
2	AGUS	cluster_2	0.194
3	SUSI	cluster_3	0.184
4	DYAH	cluster_1	0.178
5	WATI	cluster_0	0.182
6	IKA	cluster_3	0.208
7	EKO	cluster_1	0.173
8	YANTO	cluster_0	0.186
9	WAWAN	cluster_2	0.175
10	MAHMUD	cluster_2	0.170
11	BUDI	cluster_3	0.210
12	SANTI	cluster_3	0.205
13	DIAN	cluster_0	0.152
14	DANI	cluster_3	0.197
15	AHMAD	cluster_1	0.155
16	BAYU	cluster_0	0.168
17	RISA	cluster_2	0.173
18	RANI	cluster_3	0.198
19	YANI	cluster_1	0.190
20	RATIH	cluster_2	0.182
21	INDAH	cluster_1	0.210
22	JONO	cluster_2	0.197
23	SARAH	cluster_2	0.160
24	RAMAH	cluster_0	0.167
25	BAMBANG	cluster_3	0.221
26	HANIDI	cluster_0	0.166
27	NANA	cluster_0	0.147
28	FEBRI	cluster_2	0.176
29	DENI	cluster_0	0.168
30	TPNI	cluster_1	0.173

## Cluster model description

### Cluster Model

```
Cluster 0: 8 items
Cluster 1: 7 items
Cluster 2: 8 items
Cluster 3: 7 items
Total number of items: 30
```

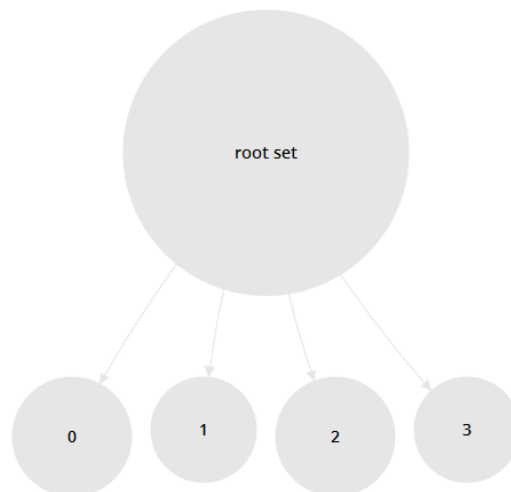
### Graph

Zoom  

Tree ▼

☒ Node Labels

☒ Edge Labels



### Cluster

Row No.	NAMA	cluster ↑	B.INDO	B.ING	MTK	IPA
5	WATI	cluster_0	9.099	8.430	5.253	7.284
8	YANTO	cluster_0	9.454	8.876	6.046	6.417
13	DIAN	cluster_0	6.110	6.112	5.309	7.470
16	BAYU	cluster_0	8.101	6.982	5.625	6.945
24	RAMAH	cluster_0	8.118	7.696	5.816	6.014
26	HANIDI	cluster_0	5.519	9.937	5.896	6.107
27	NANA	cluster_0	7.376	5.568	5.272	6.068
29	DENI	cluster_0	8.461	6.623	7.636	5.056
1	JOKO	cluster_1	7.741	7.879	6.009	8.832
4	DYAH	cluster_1	6.114	7.376	5.619	9.996
7	EKO	cluster_1	5.007	8.559	5.286	9.461
15	AHMAD	cluster_1	5.045	6.931	5.095	8.340
19	YANI	cluster_1	8.167	7.771	5.801	9.457
21	INDAH	cluster_1	6.511	9.617	8.613	9.846

Row No.	NAMA	cluster ↑	B.INDO	B.ING	MTK	IPA
30	TPNI	cluster_1	5.949	7.400	5.872	9.092
2	AGUS	cluster_2	6.669	7.134	9.987	8.116
9	WAWAN	cluster_2	6.292	5.009	7.505	9.722
10	MAHMUD	cluster_2	6.968	5.193	6.780	8.848
17	RISA	cluster_2	6.060	5.021	9.955	7.388
20	RATIH	cluster_2	6.159	6.402	9.876	7.477
22	JONO	cluster_2	6.022	7.348	9.038	9.894
23	SARAH	cluster_2	6.547	5.055	7.785	6.977
28	FEBRI	cluster_2	5.317	7.609	8.636	7.414
3	SUSI	cluster_3	9.392	6.247	9.684	5.117
6	IKA	cluster_3	9.322	7.839	9.963	7.291
11	BUDI	cluster_3	7.599	8.790	8.560	9.530
12	SANTI	cluster_3	9.979	8.011	8.529	7.275
14	DANI	cluster_3	8.606	8.732	8.681	6.479
18	RANI	cluster_3	9.089	5.996	7.973	9.432
25	BAMBANG	cluster_3	9.772	7.573	9.113	9.894

Nama siswa dalam kelompok cluster 0

WATI  
YANTO  
DIAN  
BAYU  
RAMAH  
HANIDI  
NANA  
DENI

Nama siswa dalam kelompok cluster 1

JOKO  
DYAH  
EKO  
AHMAD  
YANI  
INDAH  
TPNI

Nama siswa dalam kelompok cluster 2

AGUS  
WAWAN  
MAHMUD  
RISA  
RATIH  
JONO  
SARAH  
FEBRI

Nama siswa dalam kelompok cluster 3

SUSI  
IKA  
BUDI  
SANTI  
DANI  
RANI  
BAMBANG