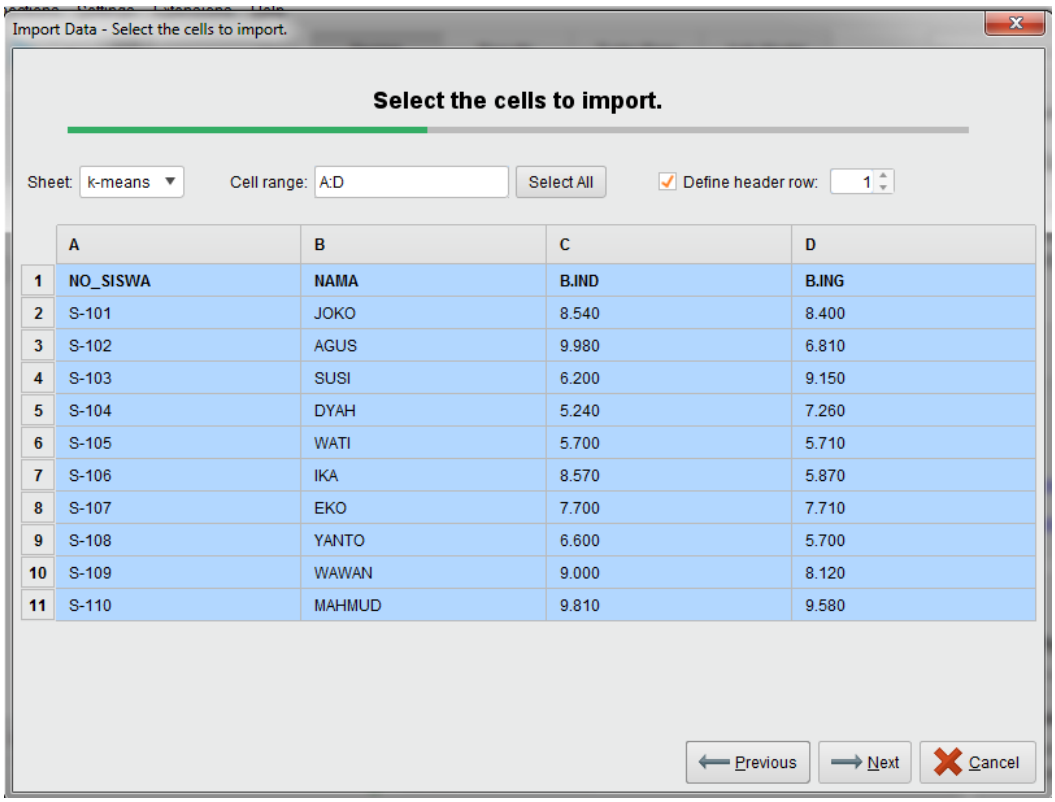
Percobaan

1.

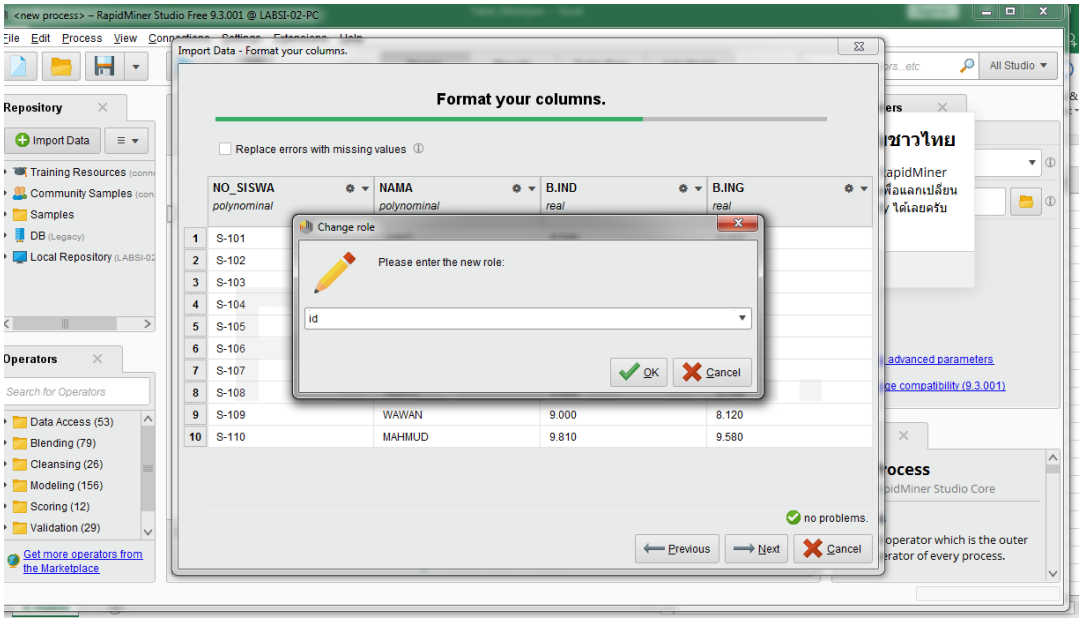
	A	B	C	D	E
	NO_SISWA	NAMA	B.IND	B.ING	
	S-101	JOKO	8,54	8,4	
	S-102	AGUS	9,98	6,81	
	S-103	SUSI	6,2	9,15	
	S-104	DYAH	5,24	7,26	
	S-105	WATI	5,7	5,71	
	S-106	IKA	8,57	5,87	
	S-107	EKO	7,7	7,71	
	S-108	YANTO	6,6	5,7	
	S-109	WAWAN	9	8,12	
	S-110	MAHMUD	9,81	9,58	

2.

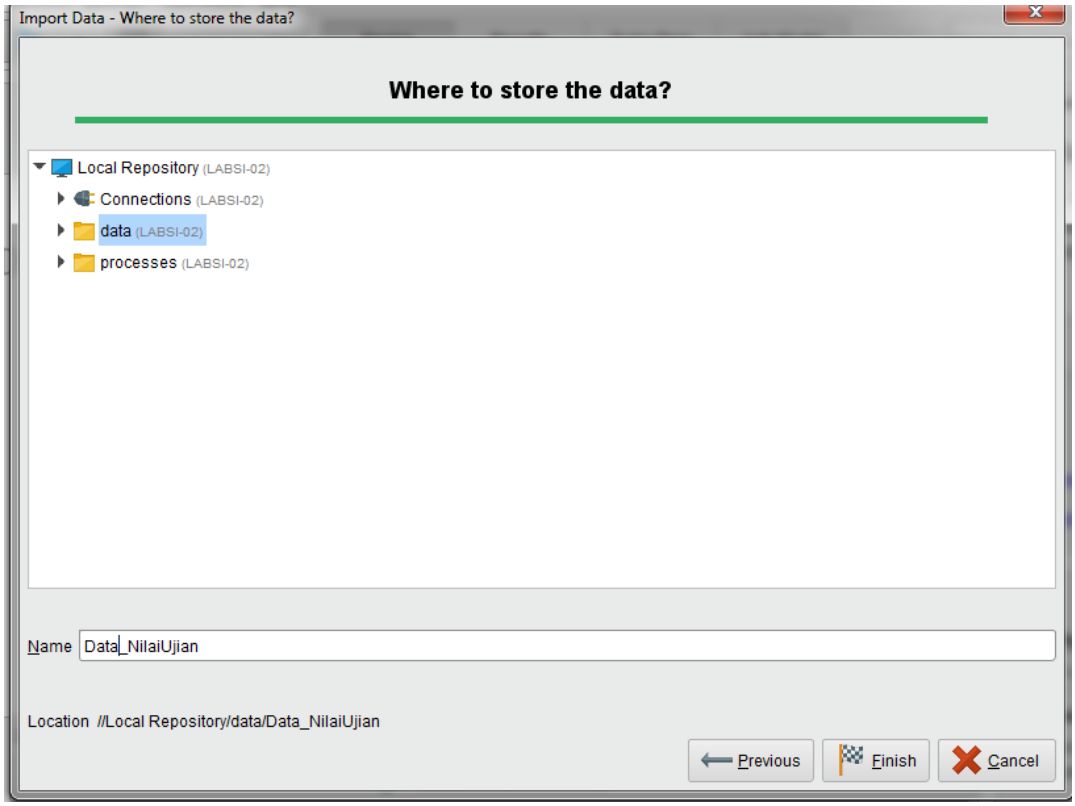


	A	B	C	D
1	NO_SISWA	NAMA	B.IND	B.ING
2	S-101	JOKO	8.540	8.400
3	S-102	AGUS	9.980	6.810
4	S-103	SUSI	6.200	9.150
5	S-104	DYAH	5.240	7.260
6	S-105	WATI	5.700	5.710
7	S-106	IKA	8.570	5.870
8	S-107	EKO	7.700	7.710
9	S-108	YANTO	6.600	5.700
10	S-109	WAWAN	9.000	8.120
11	S-110	MAHMUD	9.810	9.580

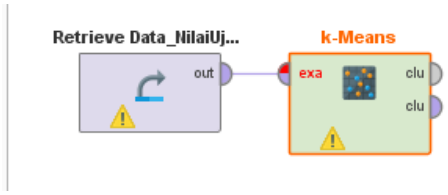
4.


Import Data - Format your columns.
Format your columns.
Replace errors with missing values
NO_SISWA
polynominal
NAMA
polynominal
B.IND
real
B.ING
real
Change role
Please enter the new role:
id
OK
Cancel
S-109
WAWAN
9.000
8.120
S-110
MAHMUD
9.810
9.580
no problems.
Previous
Next
Cancel

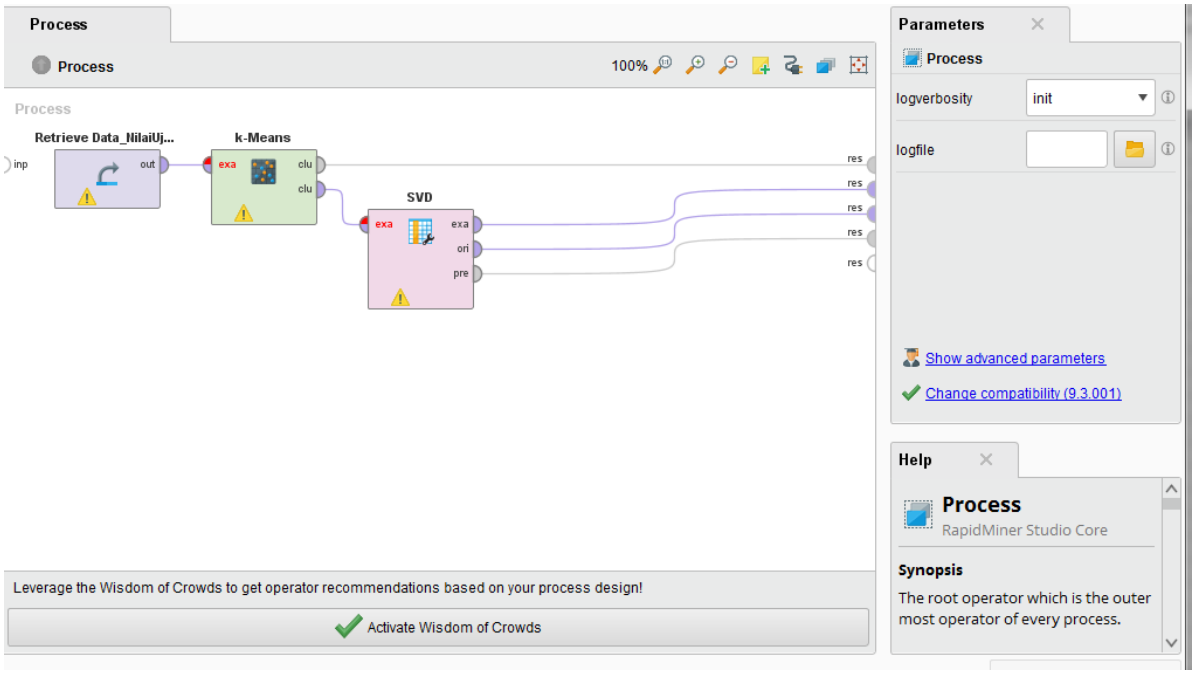
5.


Import Data - Where to store the data?
Where to store the data?
Local Repository (LABSI-02)
Connections (LABSI-02)
data (LABSI-02)
processes (LABSI-02)
Name
Data_NilaiUjian
Location //Local Repository/data/Data_NilaiUjian
Previous
Finish
Cancel

6. , 7.



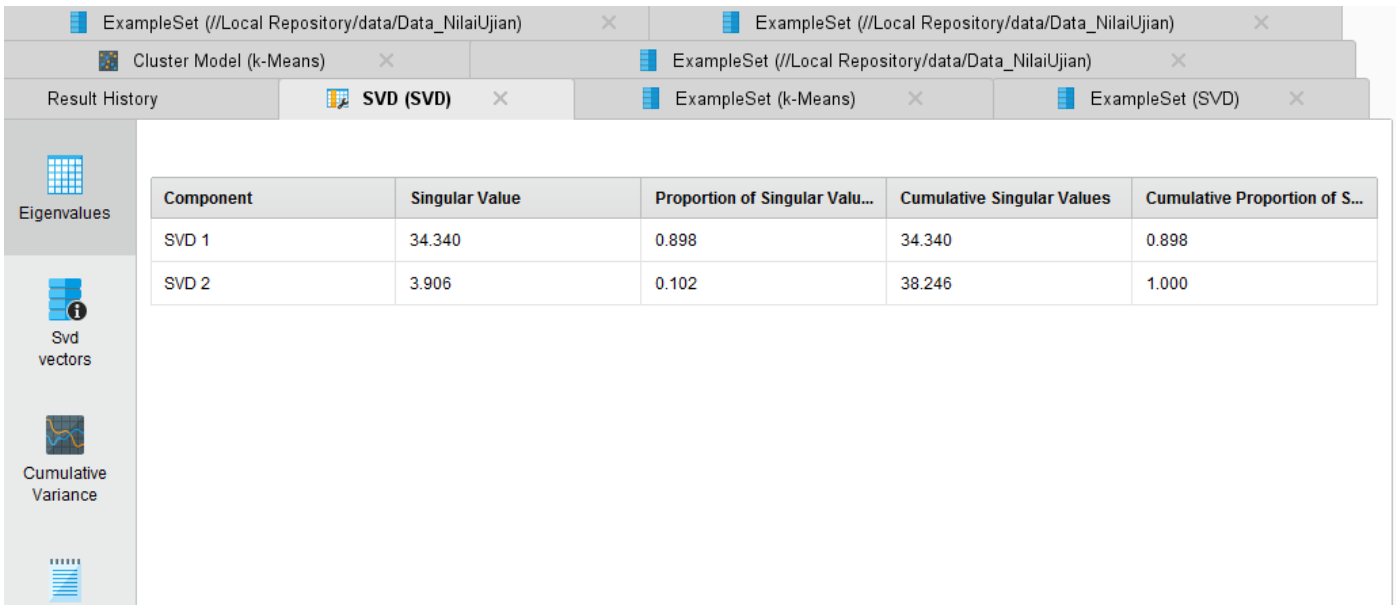
8.



9., 10

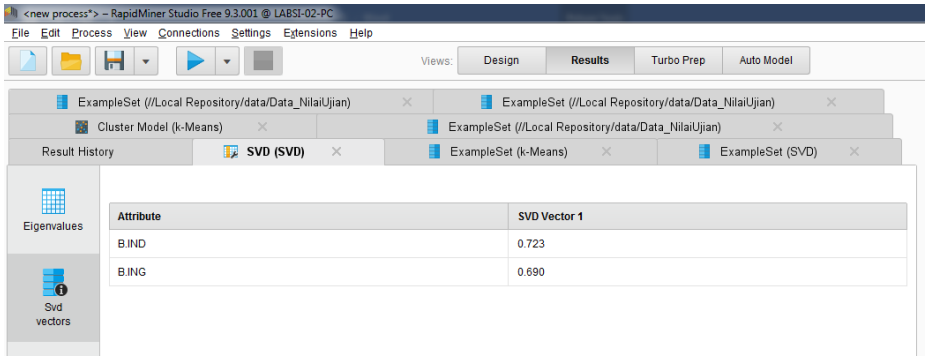
a.

i.

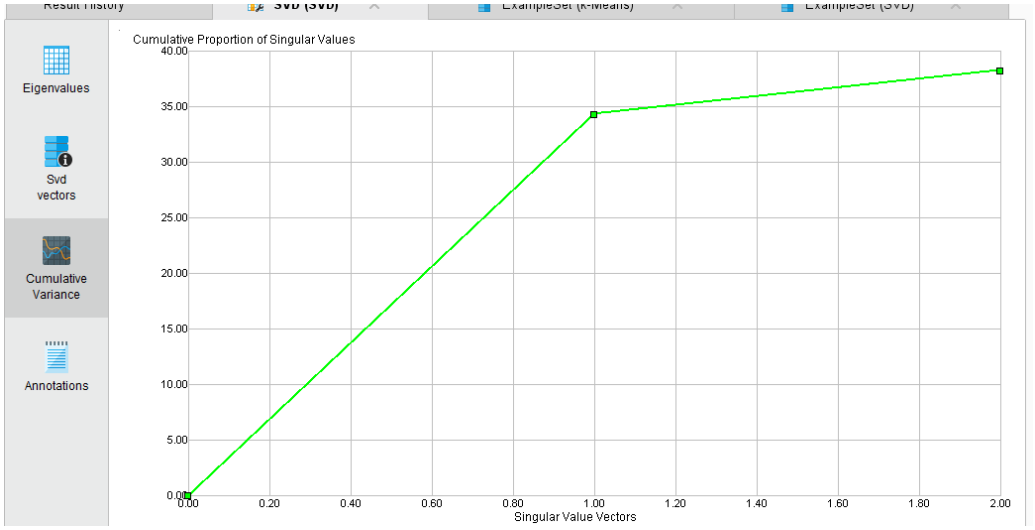


Component	Singular Value	Proportion of Singular Valu...	Cumulative Singular Values	Cumulative Proportion of S...
SVD 1	34.340	0.898	34.340	0.898
SVD 2	3.906	0.102	38.246	1.000

ii.

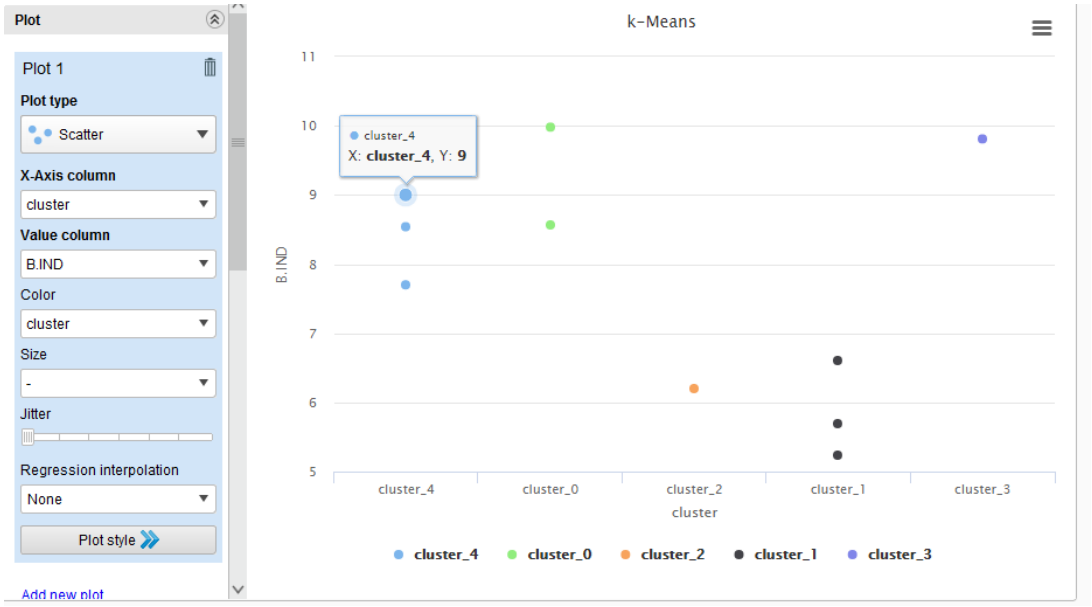

<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-02-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
ExampleSet (//Local Repository/data/Data_NilaiUjian)
ExampleSet (//Local Repository/data/Data_NilaiUjian)
Cluster Model (k-Means)
ExampleSet (//Local Repository/data/Data_NilaiUjian)
Result History
SVD (SVD)
ExampleSet (k-Means)
ExampleSet (SVD)
Eigenvalues
Svd vectors
Attribute
SVD Vector 1
B.IND
0.723
B.ING
0.690

iii.

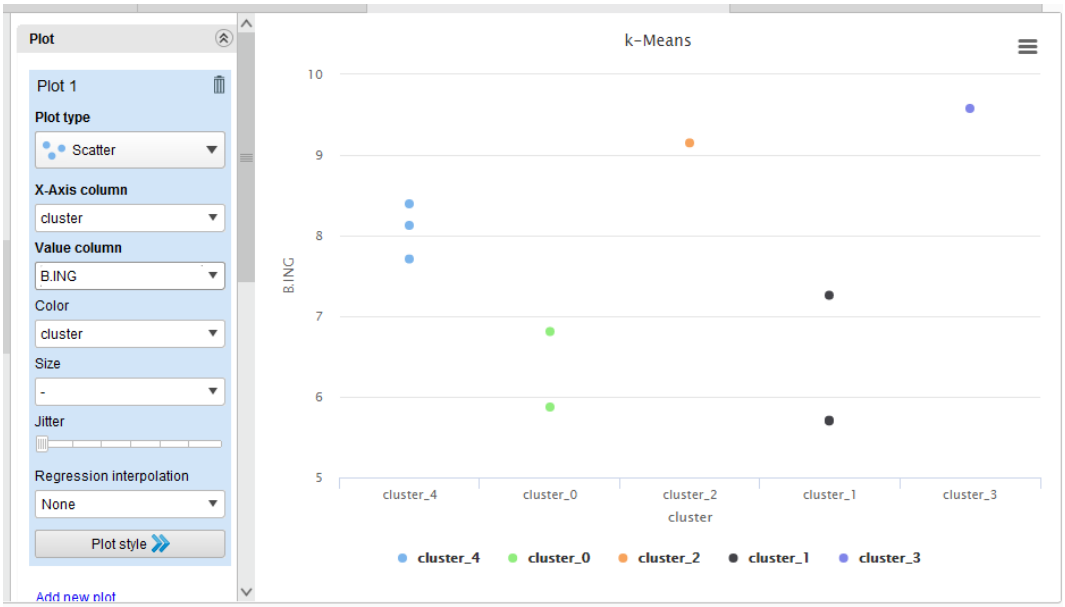

Eigenvalues
Svd vectors
Cumulative Variance
Annotations
Cumulative Proportion of Singular Values
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
Singular Value Vectors

b.

I. B.IND


Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
B.IND
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
Add new plot
k-Means
cluster_4
X: cluster_4, Y: 9
B.IND
11
10
9
8
7
6
5
cluster_4
cluster_0
cluster_2
cluster_1
cluster_3
cluster
cluster_4
cluster_0
cluster_2
cluster_1
cluster_3

II. B.ING

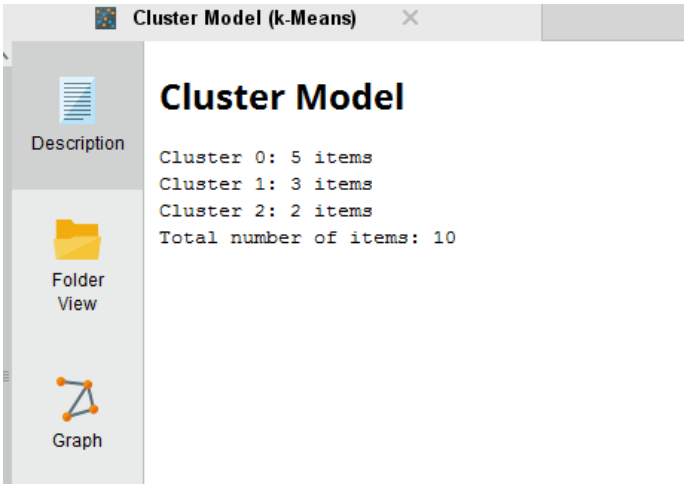


C. SVD

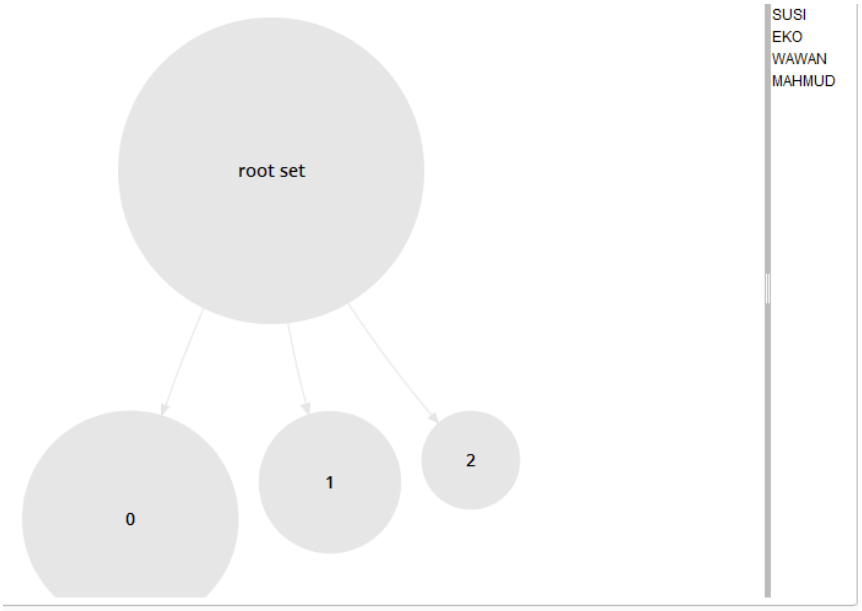
Row No.	NAMA	cluster ↑	svd_1
1	JOKO	cluster_0	0.349
3	SUSI	cluster_0	0.315
7	EKO	cluster_0	0.317
9	WAWAN	cluster_0	0.353
10	MAHMUD	cluster_0	0.399
4	DYAH	cluster_1	0.256
5	WATI	cluster_1	0.235
8	YANTO	cluster_1	0.254
2	AGUS	cluster_2	0.347
6	IKA	cluster_2	0.299

D. CLUSTER MODEL

I. DESC



II. GRAPH

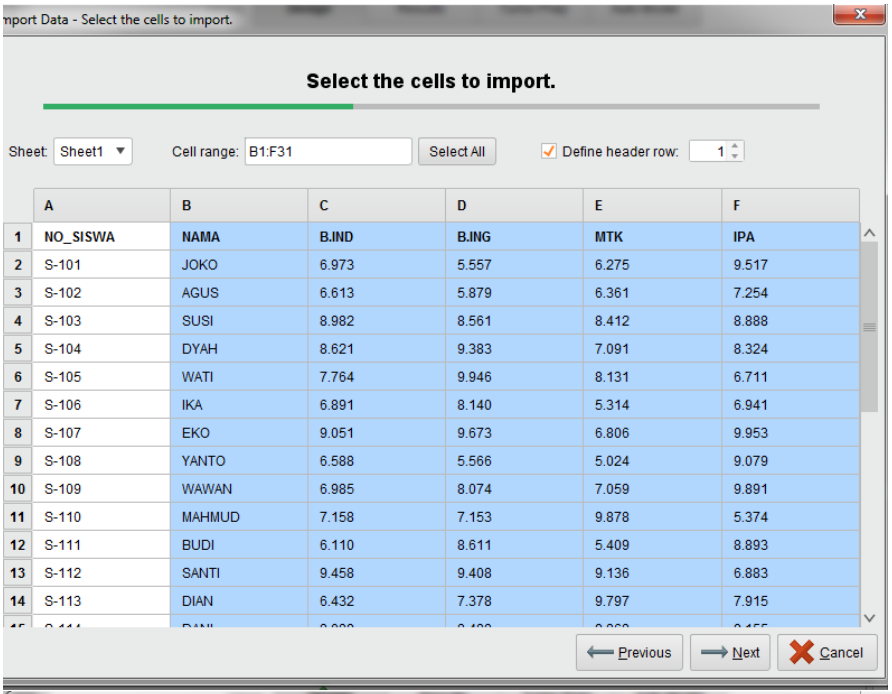


Tugas

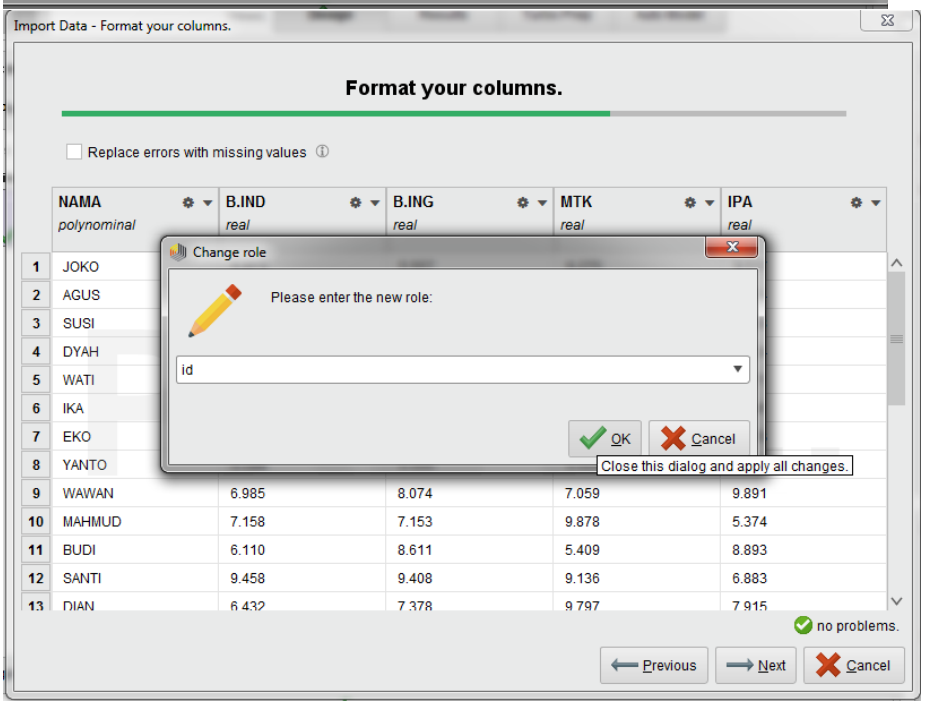
1. .

	NO_SISWA	NAMA	B.IND	B.ING	MTK	IPA
2	S-101	JOKO	6,97	5,56	6,27	9,52
3	S-102	AGUS	6,61	5,88	6,36	7,25
4	S-103	SUSI	8,98	8,56	8,41	8,89
5	S-104	DYAH	8,62	9,38	7,09	8,32
6	S-105	WATI	7,76	9,95	8,13	6,71
7	S-106	IKA	6,89	8,14	5,31	6,94
8	S-107	EKO	9,05	9,67	6,81	9,95
9	S-108	YANTO	6,59	5,57	5,02	9,08
10	S-109	WAWAN	6,98	8,07	7,06	9,89
11	S-110	MAHMUD	7,16	7,15	9,88	5,37
12	S-111	BUDI	6,11	8,61	5,41	8,89
13	S-112	SANTI	9,46	9,41	9,14	6,88
14	S-113	DIAN	6,43	7,38	9,80	7,92
15	S-114	DANI	8,09	8,49	9,87	9,15
16	S-115	AHMAD	9,02	8,16	5,17	9,70
17	S-116	BAYU	9,14	6,12	6,78	9,09
18	S-117	RISA	5,41	5,41	5,54	6,96
19	S-118	RANI	9,23	6,56	7,89	8,94
20	S-119	YANI	5,24	7,09	7,62	7,09
21	S-120	RATIH	9,76	8,75	9,57	6,71
22	S-121	INDAH	7,13	7,78	7,63	6,18
23	S-122	JONO	7,77	9,20	9,40	5,18
24	S-123	SARAH	9,89	7,63	6,74	5,65
25	S-124	RAMA	7,54	8,04	9,38	6,85
26	S-125	BABANG	9,29	6,51	6,34	9,12
27	S-126	HADI	9,13	6,67	8,07	6,42
28	S-127	NANA	8,18	8,40	5,09	9,04
29	S-128	FEBRI	7,07	7,78	8,88	5,93
30	S-129	DENI	5,35	6,99	5,02	8,18
31	S-130	TONI	5,96	5,09	8,75	5,59
32						
33						

2. .



	A	B	C	D	E	F
1	NO_SISWA	NAMA	B.IND	B.ING	MTK	IPA
2	S-101	JOKO	6.973	5.557	6.275	9.517
3	S-102	AGUS	6.613	5.879	6.361	7.254
4	S-103	SUSI	8.982	8.561	8.412	8.888
5	S-104	DYAH	8.621	9.383	7.091	8.324
6	S-105	WATI	7.764	9.946	8.131	6.711
7	S-106	IKA	6.891	8.140	5.314	6.941
8	S-107	EKO	9.051	9.673	6.806	9.953
9	S-108	YANTO	6.588	5.566	5.024	9.079
10	S-109	WAWAN	6.985	8.074	7.059	9.891
11	S-110	MAHMUD	7.158	7.153	9.878	5.374
12	S-111	BUDI	6.110	8.611	5.409	8.893
13	S-112	SANTI	9.458	9.408	9.136	6.883
14	S-113	DIAN	6.432	7.378	9.797	7.915

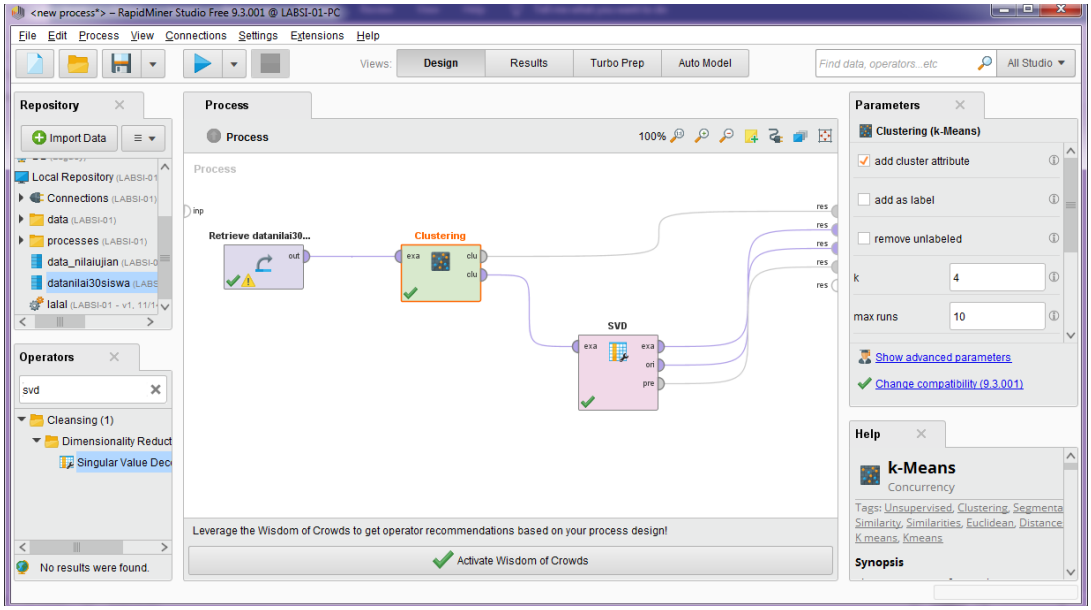


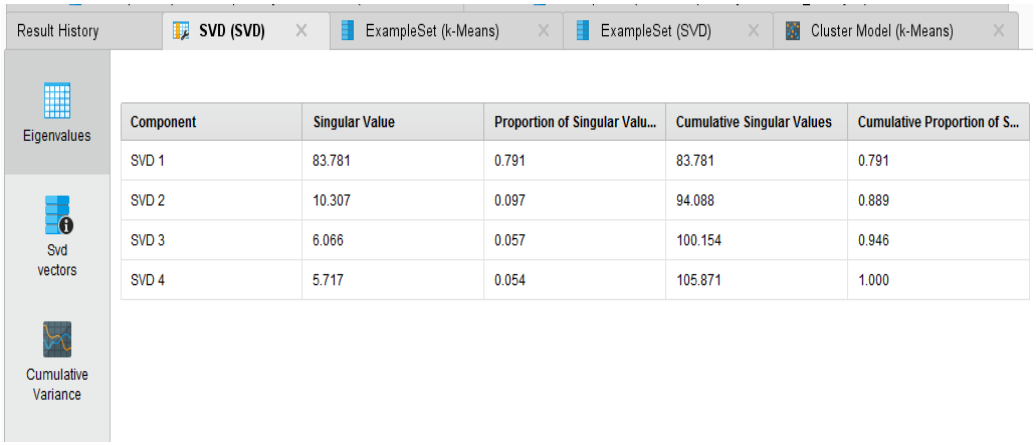
	NAMA *polynominal*	B.IND *real*	B.ING *real*	MTK *real*	IPA *real*
1	JOKO				
2	AGUS				
3	SUSI				
4	DYAH				
5	WATI				
6	IKA				
7	EKO				
8	YANTO				
9	WAWAN	6.985	8.074	7.059	9.891
10	MAHMUD	7.158	7.153	9.878	5.374
11	BUDI	6.110	8.611	5.409	8.893
12	SANTI	9.458	9.408	9.136	6.883
13	DIAN	6.432	7.378	9.797	7.915

ExampleSet (//Local Repository/data/30siswa) | SVD (SVD)

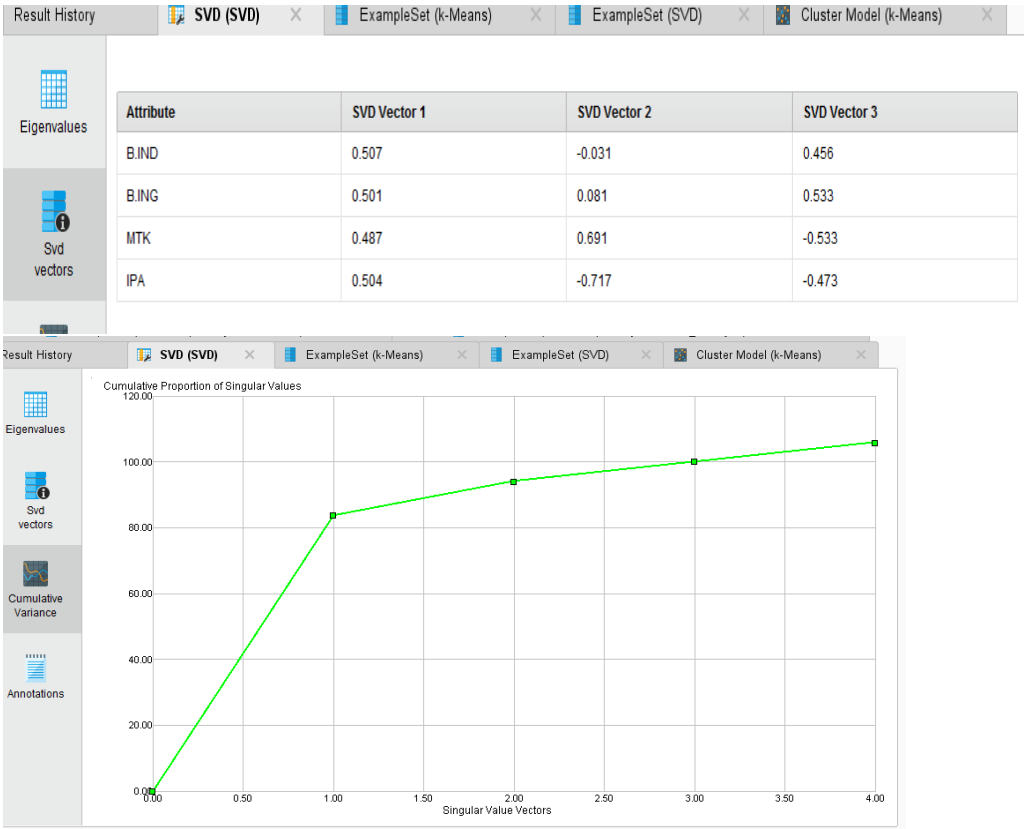
Open in Turbo Prep | Auto Model

Row No.	NAMA	B.IND	B.ING	MTK	IPA
1	JOKO	6.973	5.557	6.275	9.517
2	AGUS	6.613	5.879	6.361	7.254
3	SUSI	8.982	8.561	8.412	8.888
4	DYAH	8.621	9.383	7.091	8.324
5	WATI	7.764	9.946	8.131	6.711
6	IKA	6.891	8.140	5.314	6.941
7	EKO	9.051	9.673	6.806	9.953
8	YANTO	6.588	5.566	5.024	9.079
9	WAWAN	6.985	8.074	7.059	9.891
10	MAHMUD	7.158	7.153	9.878	5.374
11	BUDI	6.110	8.611	5.409	8.893
12	SANTI	9.458	9.408	9.136	6.883
13	DIAN	6.432	7.378	9.797	7.915



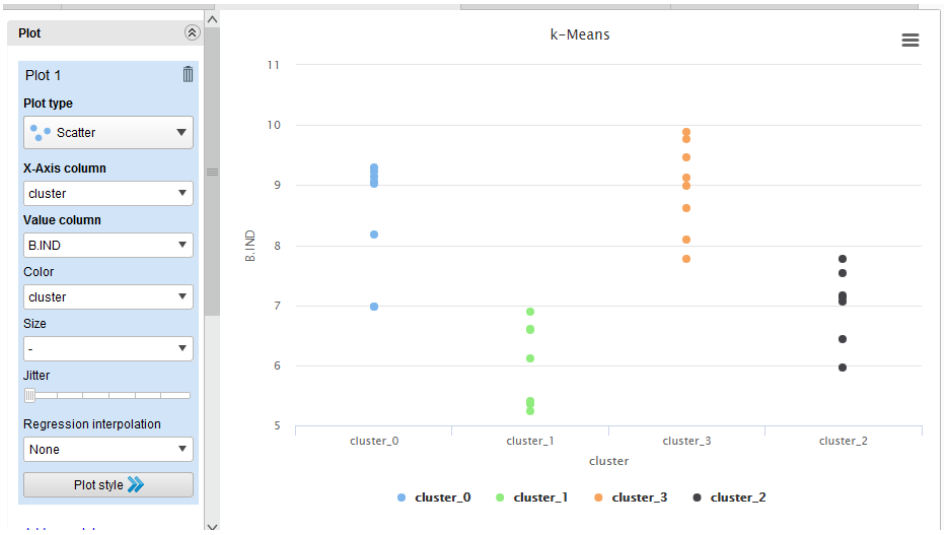


Component	Singular Value	Proportion of Singular Valu...	Cumulative Singular Values	Cumulative Proportion of S...
SVD 1	83.781	0.791	83.781	0.791
SVD 2	10.307	0.097	94.088	0.889
SVD 3	6.066	0.057	100.154	0.946
SVD 4	5.717	0.054	105.871	1.000

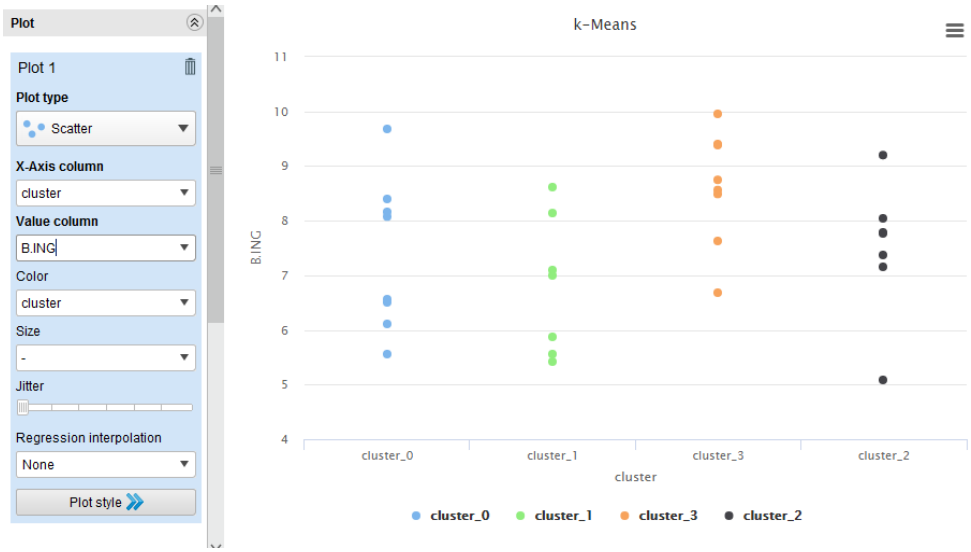


Attribute	SVD Vector 1	SVD Vector 2	SVD Vector 3
B.IND	0.507	-0.031	0.456
B.ING	0.501	0.081	0.533
MTK	0.487	0.691	-0.533
IPA	0.504	-0.717	-0.473

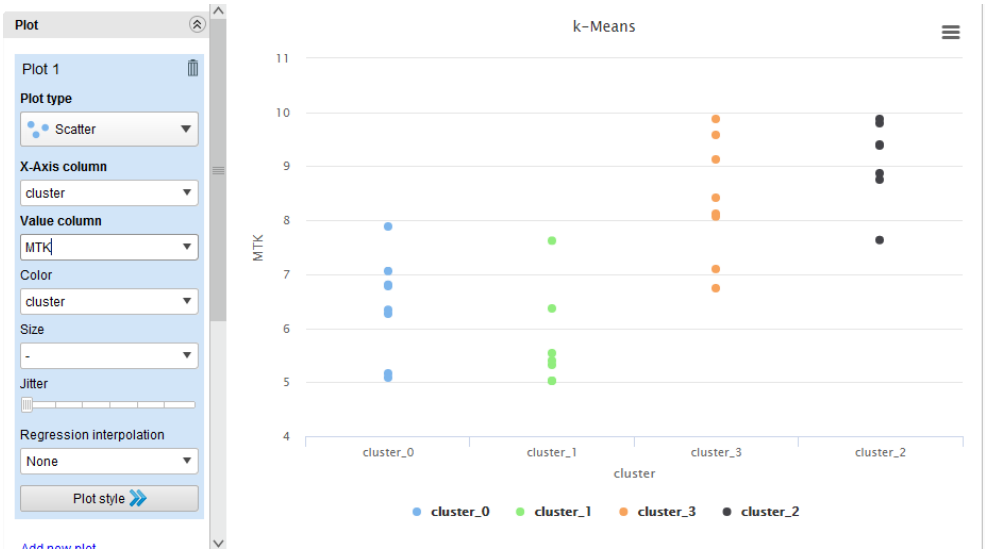
b.ind


Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
B.IND
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
k-Means
B.IND
11
10
9
8
7
6
5
cluster_0
cluster_1
cluster_3
cluster_2
cluster
cluster_0
cluster_1
cluster_3
cluster_2

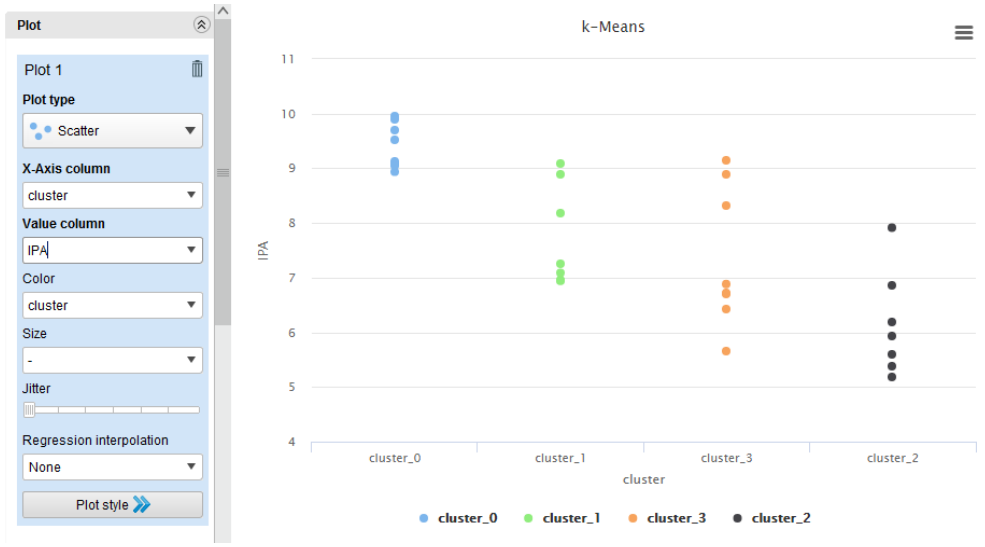
b.ing


Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
B.ING
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
k-Means
B.ING
11
10
9
8
7
6
5
4
cluster_0
cluster_1
cluster_3
cluster_2
cluster
cluster_0
cluster_1
cluster_3
cluster_2

Mtk



IPA



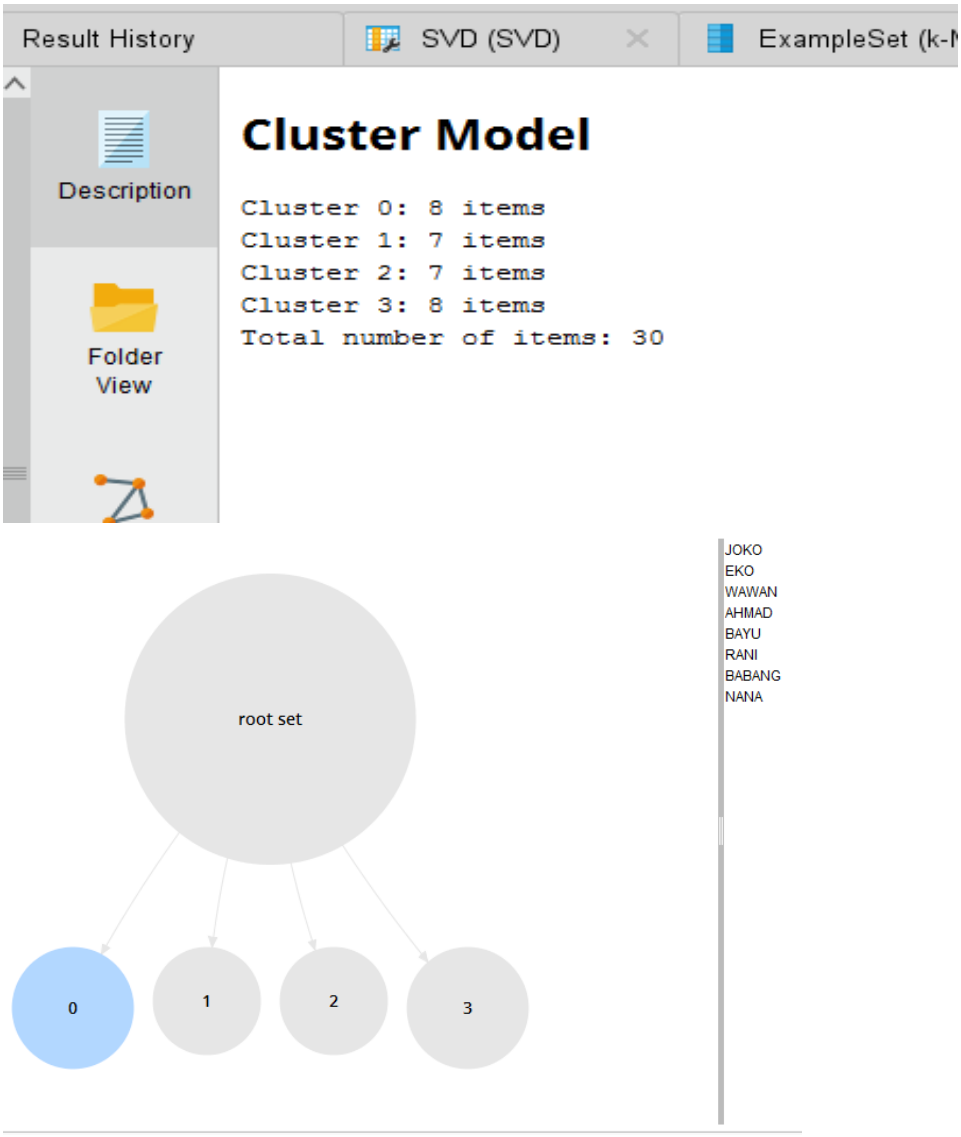
Row No.	NAMA	cluster	svd_1
1	JOKO	cluster_0	0.169
7	EKO	cluster_0	0.212
9	WAWAN	cluster_0	0.191
15	AHMAD	cluster_0	0.192
16	BAYU	cluster_0	0.186
18	RANI	cluster_0	0.195
25	BABANG	cluster_0	0.187
27	NANA	cluster_0	0.184
2	AGUS	cluster_1	0.156
6	IKA	cluster_1	0.163
8	YANTO	cluster_1	0.157
11	BUDI	cluster_1	0.173
17	RISA	cluster_1	0.139

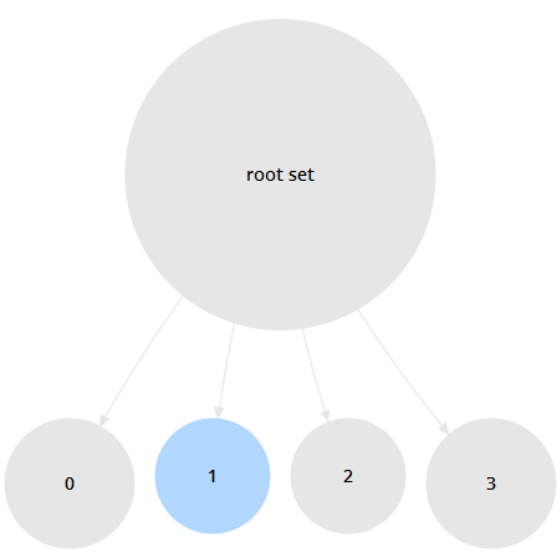
Row No.	NAMA	cluster	svd_1
17	RISA	cluster_1	0.139
19	YANI	cluster_1	0.161
29	DENI	cluster_1	0.153
10	MAHMUD	cluster_2	0.176
13	DIAN	cluster_2	0.188
21	INDAH	cluster_2	0.171
22	JONO	cluster_2	0.188
24	RAMA	cluster_2	0.189
28	FEBRI	cluster_2	0.177
30	TONI	cluster_2	0.151
3	SUSI	cluster_3	0.208
4	DYAH	cluster_3	0.200
5	WATI	cluster_3	0.194

ExampleSet (30 examples, 2 special attributes, 1 regular attribute

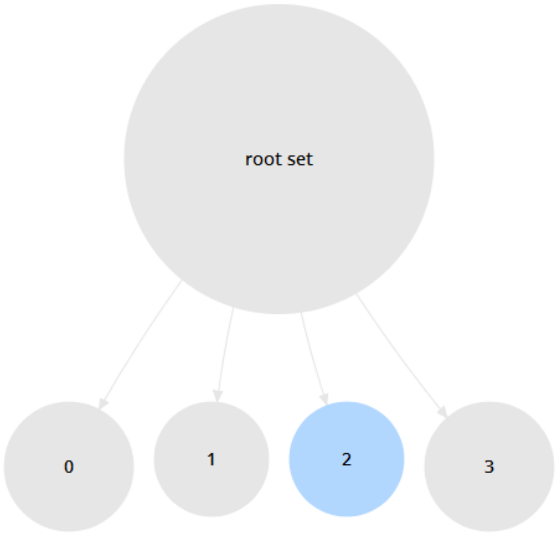
5	WATI	cluster_3	0.194
12	SANTI	cluster_3	0.208
14	DANI	cluster_3	0.212
20	RATIH	cluster_3	0.207
23	SARAH	cluster_3	0.179
26	HADI	cluster_3	0.181

CLUSTER MODEL

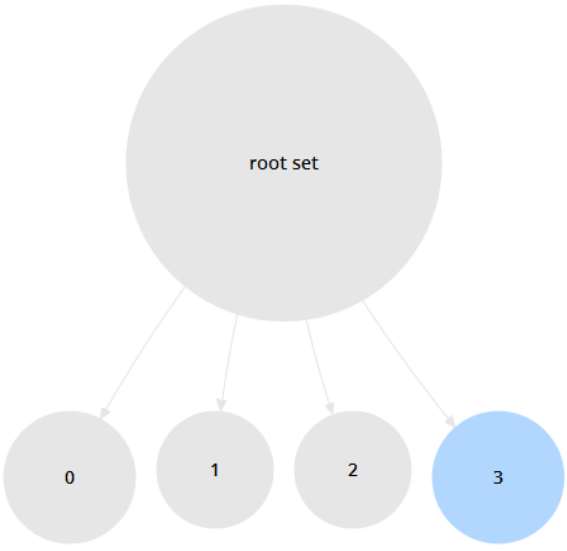




IKA
YANTC
BUDI
RISA
YANI
DENI



MAHMUD
DIAN
INDAH
JONO
RAMA
FEBRI
TONI



SUSI
DYAH
WATI
SANTI
DANI
RATIH
SARAH
HADI