

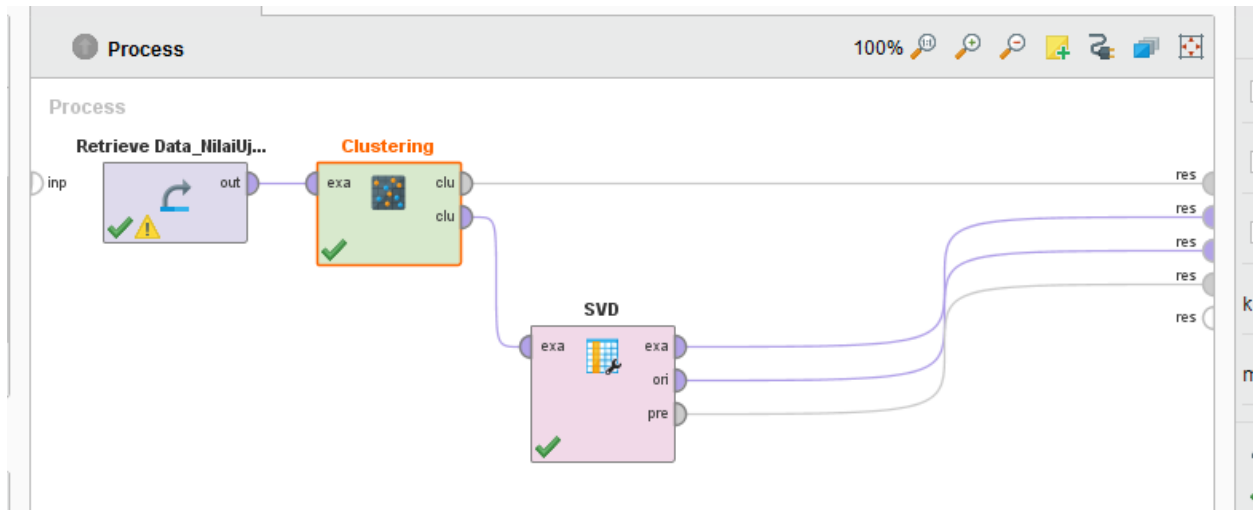
Nama : Ikhwan Fahmi T

NIM : L200170174

Modul : 14

Praktikum

K-means




Hasil


SVD (SVD)

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

ExampleSet (SVD)

Open in

 Turbo Prep

 Auto Model

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

ExampleSet (Clustering)

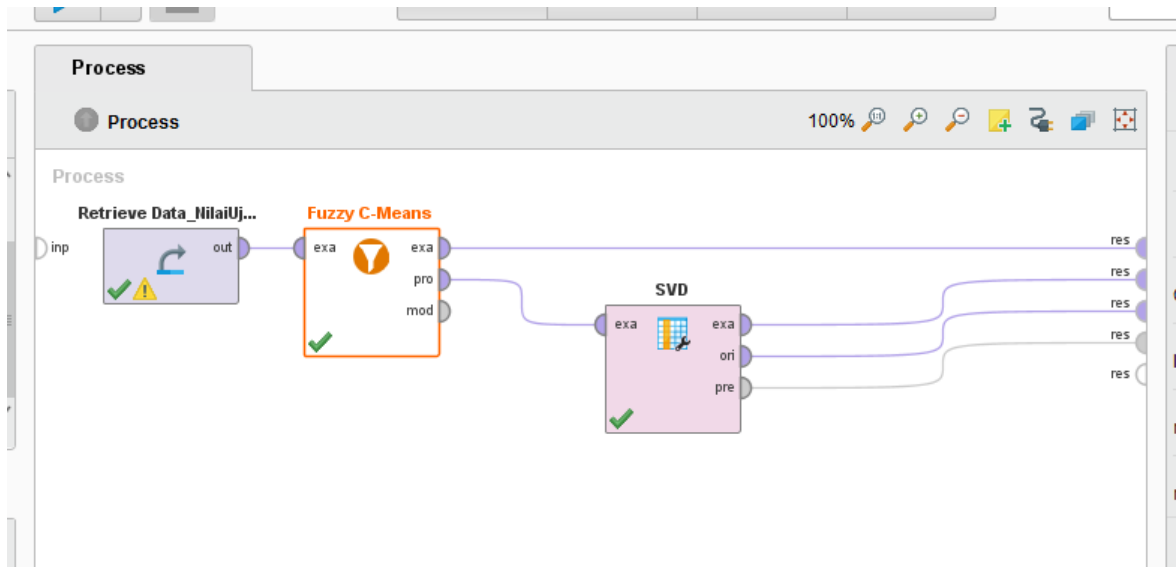
Row No.	NAMA	cluster	B.IND	B.ING
1	JOKO	cluster_0	8.540	8.400
2	AGUS	cluster_0	9.980	6.810
3	SUSI	cluster_1	6.200	9.150
4	DYAH	cluster_1	5.240	7.260
5	WATI	cluster_2	5.700	5.710
6	IKA	cluster_2	8.570	5.870
7	EKO	cluster_0	7.700	7.710
8	YANTO	cluster_2	6.600	5.700
9	WAWAN	cluster_0	9	8.120
10	MAHMUD	cluster_0	9.810	9.580

ExampleSet (Data_NilaiUjian)

Row No.	NAMA	B.IND	B.ING	MTK	IPA
1	JOKO	5.882	7.354	7.544	7.617
2	AGUS	8.429	6.327	5.703	9.908
3	SUSI	5.801	7.861	6.490	6.577
4	DYAH	6.022	9.976	5.789	5.717
5	WATI	9.156	5.258	9.607	5.308
6	IKA	8.527	8.702	5.393	7.429
7	EKO	9.894	7.388	9.403	8.735
8	YANTO	6.652	8.094	9.492	9.581
9	WAWAN	8.659	8.319	5.777	9.771
10	MAHMUD	7.259	9.994	5.134	8.818
11	BUDI	8.385	6.488	8.394	5.176
12	SANTI	7.847	6.795	5.072	5.336
13	DIAH	8.117	9.432	5.423	5.090
14	DANI	5.528	9.285	7.287	6.489

15	AHMAD	5.568	6.512	6.582	5.266
16	BAYU	5.951	5.382	7.546	6.048
17	RISA	5.450	7.637	7.586	5.660
18	RANI	9.905	7.252	6.230	8.759
19	YANI	7.004	6.673	5.228	9.078
20	RATIH	8.593	5.743	7.517	7.939
21	INDAH	9.775	8.668	6.844	8.079
22	JONO	7.119	7.235	5.044	5.191
23	SARAH	5.314	9.455	5.221	7.919
24	RAMA	8.228	9.268	7.039	5.596
25	BAMBANG	9.471	7.202	8.362	6.383
26	HADI	9.605	8.443	7.412	5.640
27	NANA	8.027	6.525	9.345	7.413
28	FEBRI	6.696	9.079	9.307	6.036
29	DENI	6.610	6.126	6.874	7.240
30	TONI	8.631	7.924	7.999	6.896

Fuzzy C-Means



Hasil

SVD (SVD)


Component	Singular Value	Proportion of Singular Valu...	Cumulative Singular Values	Cumulative Proportion of S...
SVD 1	18.509	0.962	18.509	0.962
SVD 2	0.734	0.038	19.243	1.000


ExampleSet (SVD)

Row No.	cluster	svd_1
1	cluster_0	0.588
2	cluster_1	0.465
3	cluster_2	0.662

ExampleSet (Data_NilaiUjian)

Open in

 Turbo Prep

 Auto Model

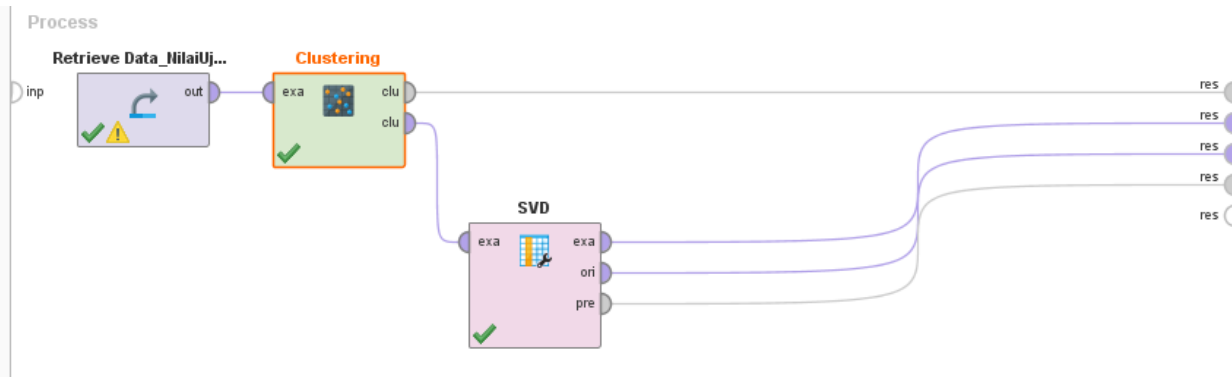
Row No.	NAMA	cluster	B.IND	B.ING
1	JOKO	cluster_2	8.540	8.400
2	AGUS	cluster_2	9.980	6.810
3	SUSI	cluster_0	6.200	9.150
4	DYAH	cluster_1	5.240	7.260
5	WATI	cluster_1	5.700	5.710
6	IKA	cluster_0	8.570	5.870
7	EKO	cluster_0	7.700	7.710
8	YANTO	cluster_1	6.600	5.700
9	WAWAN	cluster_2	9	8.120
10	MAHMUD	cluster_2	9.810	9.580

ExampleSet (Fuzzy C-Means)

Row No.	cluster	B.IND	B.ING
1	cluster_0	7.482	7.931
2	cluster_1	6.089	6.078
3	cluster_2	9.164	8.139

Tugas

Clustering K-means



Hasil

SVD (SVD)

Component	Singular Value	Proportion of Singular Valu...	Cumulative Singular Values	Cumulative Proportion of S...
SVD 1	80.758	0.772	80.758	0.772
SVD 2	9.102	0.087	89.860	0.859
SVD 3	7.894	0.076	97.754	0.935
SVD 4	6.795	0.065	104.549	1.000

ExampleSet (Clustering)

Row No.	NAMA	cluster	B.IND	B.ING	MTK	IPA
1	JOKO	cluster_1	5.882	7.354	7.544	7.617
2	AGUS	cluster_0	8.429	6.327	5.703	9.908
3	SUSI	cluster_3	5.801	7.861	6.490	6.577
4	DYAH	cluster_3	6.022	9.976	5.789	5.717
5	WATI	cluster_2	9.156	5.258	9.607	5.308
6	IKA	cluster_0	8.527	8.702	5.393	7.429
7	EKO	cluster_2	9.894	7.388	9.403	8.735
8	YANTO	cluster_1	6.652	8.094	9.492	9.581
9	WAWAN	cluster_0	8.659	8.319	5.777	9.771
10	MAHMUD	cluster_0	7.259	9.994	5.134	8.818
11	BUDI	cluster_2	8.385	6.488	8.394	5.176
12	SANTI	cluster_3	7.847	6.795	5.072	5.336
13	DIAH	cluster_3	8.117	9.432	5.423	5.090

Row No.	NAMA	cluster	B.IND	B.ING	MTK	IPA
14	DANI	cluster_3	5.528	9.285	7.287	6.489
15	AHMAD	cluster_3	5.568	6.512	6.582	5.266
16	BAYU	cluster_3	5.951	5.382	7.546	6.048
17	RISA	cluster_3	5.450	7.637	7.586	5.660
18	RANI	cluster_0	9.905	7.252	6.230	8.759
19	YANI	cluster_0	7.004	6.673	5.228	9.078
20	RATIH	cluster_2	8.593	5.743	7.517	7.939
21	INDAH	cluster_0	9.775	8.668	6.844	8.079
22	JONO	cluster_3	7.119	7.235	5.044	5.191
23	SARAH	cluster_3	5.314	9.455	5.221	7.919
24	RAMA	cluster_3	8.228	9.268	7.039	5.596
25	BAMBANG	cluster_2	9.471	7.202	8.362	6.383
26	HADI	cluster_2	9.605	8.443	7.412	5.640

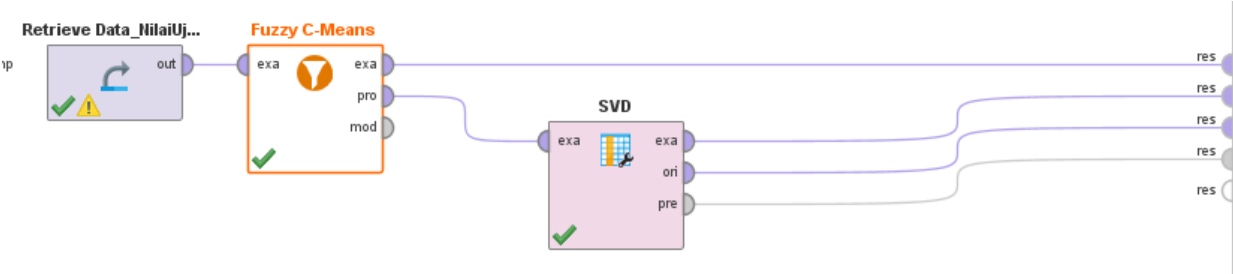
27	NANA	cluster_2	8.027	6.525	9.345	7.413
28	FEBRI	cluster_1	6.696	9.079	9.307	6.036
29	DENI	cluster_3	6.610	6.126	6.874	7.240
30	TONI	cluster_2	8.631	7.924	7.999	6.896

ExampleSet (SVD)

Row No.	NAMA	cluster	svd_1
1	JOKO	cluster_1	0.175
2	AGUS	cluster_0	0.188
3	SUSI	cluster_3	0.166
4	DYAH	cluster_3	0.171
5	WATI	cluster_2	0.181
6	IKA	cluster_0	0.187
7	EKO	cluster_2	0.219
8	YANTO	cluster_1	0.208
9	WAWAN	cluster_0	0.202
10	MAHMUD	cluster_0	0.194
11	BUDI	cluster_2	0.176
12	SANTI	cluster_3	0.156
13	DIAH	cluster_3	0.175
14	DANI	cluster_3	0.177

15	AHMAD	cluster_3	0.148
16	BAYU	cluster_3	0.154
17	RISA	cluster_3	0.163
18	RANI	cluster_0	0.199
19	YANI	cluster_0	0.173
20	RATIH	cluster_2	0.184
21	INDAH	cluster_0	0.207
22	JONO	cluster_3	0.153
23	SARAH	cluster_3	0.173
24	RAMA	cluster_3	0.188
25	BAMBANG	cluster_2	0.195
26	HADI	cluster_2	0.194
27	NANA	cluster_2	0.193
28	FEBRI	cluster_1	0.193
29	DENI	cluster_3	0.166
30	TONI	cluster_2	0.195

Fuzzy C-Means



Hasil

SVD (SVD)

Component	Singular Value	Proportion of Singular Valu...	Cumulative Singular Values	Cumulative Proportion of S...
SVD 1	29.359	0.971	29.359	0.971
SVD 2	0.633	0.021	29.992	0.991
SVD 3	0.248	0.008	30.241	1.000
SVD 4	0.009	0.000	30.250	1.000

ExampleSet (SVD)

Row No.	cluster	svd_1
1	cluster_0	0.509
2	cluster_1	0.495
3	cluster_2	0.505
4	cluster_3	0.491

ExampleSet (Retrieve Data_NilaiUjian30Siswa)

Row No.	NAMA	cluster	B.IND	B.ING	MTK	IPA
1	JOKO	cluster_1	5.882	7.354	7.544	7.617
2	AGUS	cluster_1	8.429	6.327	5.703	9.908
3	SUSI	cluster_1	5.801	7.861	6.490	6.577
4	DYAH	cluster_1	6.022	9.976	5.789	5.717
5	WATI	cluster_2	9.156	5.258	9.607	5.308
6	IKA	cluster_0	8.527	8.702	5.393	7.429
7	EKO	cluster_2	9.894	7.388	9.403	8.735
8	YANTO	cluster_1	6.652	8.094	9.492	9.581
9	WAWAN	cluster_1	8.659	8.319	5.777	9.771
10	MAHMUD	cluster_1	7.259	9.994	5.134	8.818
11	BUDI	cluster_2	8.385	6.488	8.394	5.176
12	SANTI	cluster_3	7.847	6.795	5.072	5.336
13	DIAH	cluster_0	8.117	9.432	5.423	5.090
14	DANI	cluster_1	5.528	9.285	7.287	6.489

Row No.	NAMA	cluster	B.IND	B.ING	MTK	IPA
15	AHMAD	cluster_3	5.568	6.512	6.582	5.266
16	BAYU	cluster_3	5.951	5.382	7.546	6.048
17	RISA	cluster_3	5.450	7.637	7.586	5.660
18	RANI	cluster_0	9.905	7.252	6.230	8.759
19	YANI	cluster_1	7.004	6.673	5.228	9.078
20	RATIH	cluster_2	8.593	5.743	7.517	7.939
21	INDAH	cluster_0	9.775	8.668	6.844	8.079
22	JONO	cluster_3	7.119	7.235	5.044	5.191
23	SARAH	cluster_1	5.314	9.455	5.221	7.919
24	RAMA	cluster_0	8.228	9.268	7.039	5.596
25	BAMBANG	cluster_2	9.471	7.202	8.362	6.383
26	HADI	cluster_0	9.605	8.443	7.412	5.640
27	NANA	cluster_2	8.027	6.525	9.345	7.413
28	FEBRI	cluster_2	6.696	9.079	9.307	6.036

29	DENI	cluster_3	6.610	6.126	6.874	7.240
30	TONI	cluster_2	8.631	7.924	7.999	6.896

ExampleSet (Fuzzy C-Means)

Row No.	cluster	B.IND	B.ING	MTK	IPA
1	cluster_0	7.935	7.842	7.104	6.959
2	cluster_1	7.239	7.729	6.842	7.238
3	cluster_2	7.854	7.522	7.323	6.910
4	cluster_3	7.390	7.623	6.837	6.972