Nama   : Angieta Putri Wahendra

NIM   : L200170096
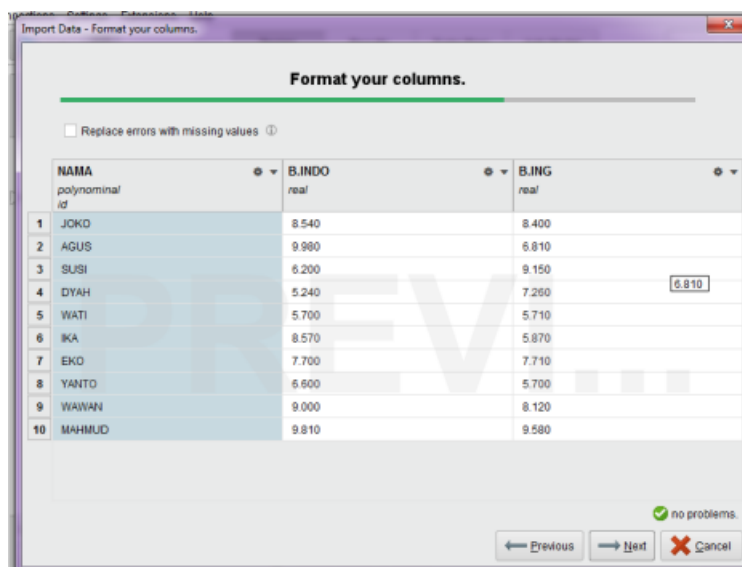
Kelas   : D
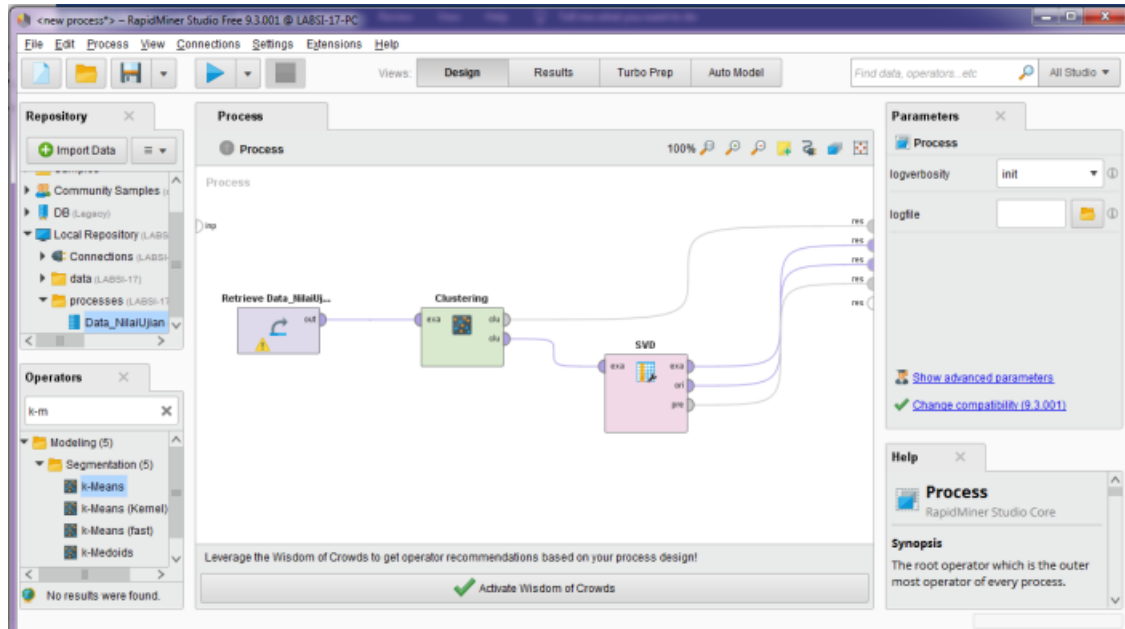
Modul   : 10

KEGIATAN

1. Tabel Data Nilai Siswa

NO_SISWA	NAMA	B.INDO	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. Process

3. Hasil Proses Clustering dengan Algoritma K-Means
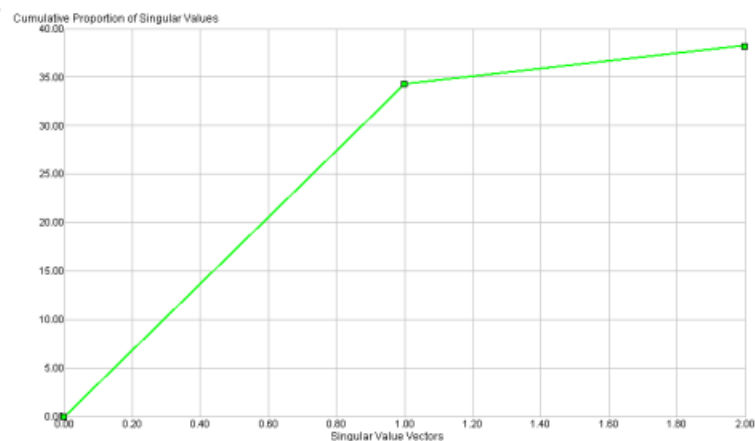   a) SVD (Singular Value Decomposition)
        i. Nilai Eigenvalue

Component	Singular Value	Proportion of Singular V...	Cumulative Singular Val...	Cumulative Proportion o...
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.INDO	0.723
B.ING	0.690

        iii. Nilai Cumulative Variance
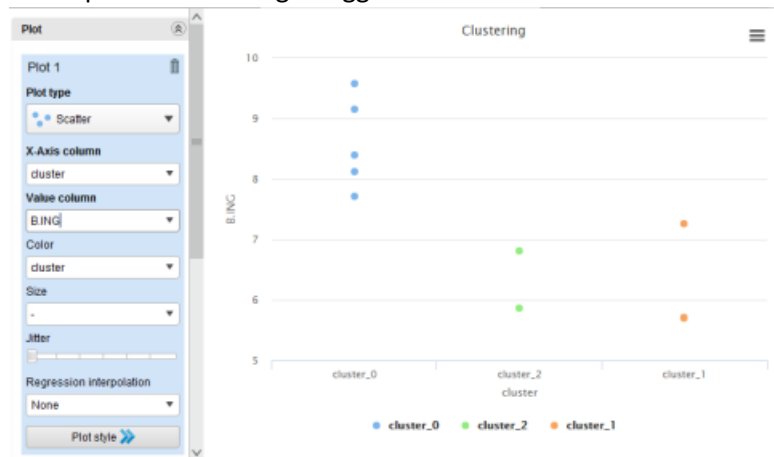
b) ExampleSet (K-Means)

    I.   Kelompok Siswa bidang B.Indonesia

    II.   Kelompok Siswa bidang B.Inggris

c) ExampleSet (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 (Clustering)

- Description

Cluster Model

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

- Graph

JOKO
SUSI
EKO
WAWAN
MAHMUD

root set

0

1

2

0

Number of Terms 5

DYAH
WATI
YANTO

root set

0

1

2

AGUS
IKA

root set

0

1

2