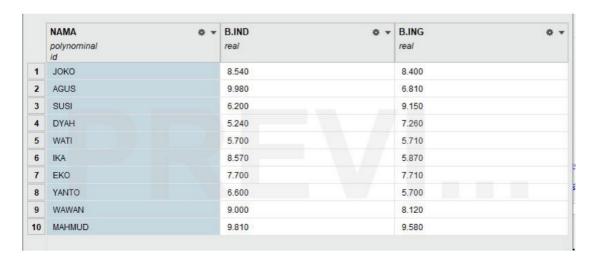
Nama : Tino Arif Priyanto NIM : L200170131

Kelas : E

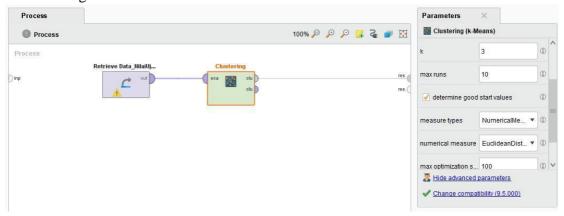
Laporan Kegiatan Praktikum DWDM Modul 10 (Clustering : K-Means)

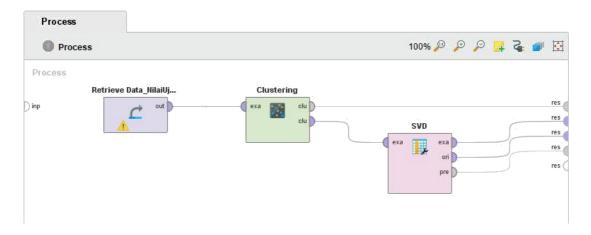
- Tabel data nilai siswa

NO_SISWA	NAMA	B.IND	B.ING
S-101	JOKO	8.54	8.40
S-102	AGUS	9.98	6.81
S-103	SUSI	6.20	9.15
S-104	DYAH	5.24	7.26
S-105	WATI	5.70	5.71
S-106	IKA	8.57	5.87
S-107	EKO	7.70	7.71
S-108	YANTO	6.60	5.70
S-109	WAWAN	9.00	8.12
S-110	MAHMUD	9.81	9.58



- Area Design Process





Hasil proses Clustering dengan Algoritma k-Means

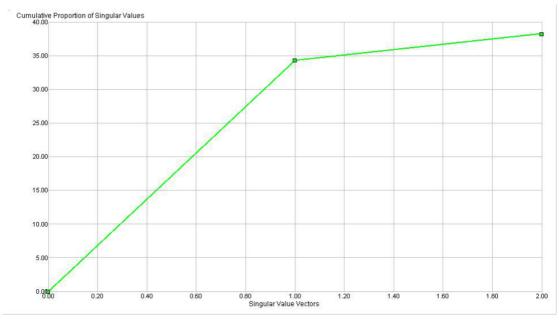
- a. SVD (Singular Value Decomposition)
 - i. Nilai Eigenvalue

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	

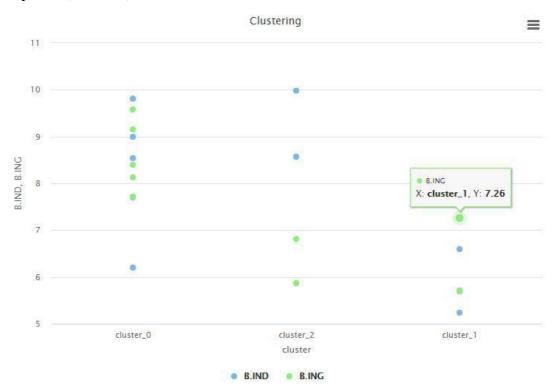
ii. Nilai SVD Vectors

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

iii. Nilai Cumulative Variance



b. ExampleSet (k-Means)



c. ExampleSet (SVD)

Row No.	NAMA	cluster ↑	svd_1
1	ЈОКО	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)

i. Description

Cluster Model

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

ii. Graph

