NAMA : Fischella Angieta C

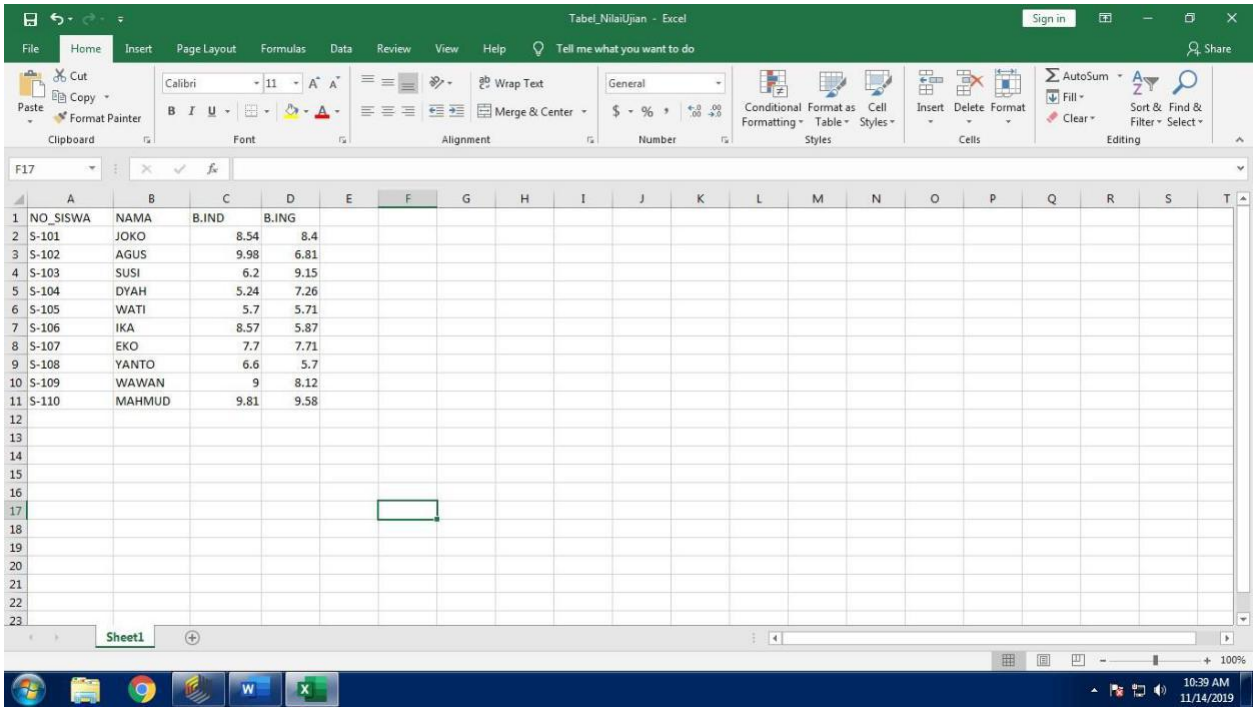
NIM : L200170077

KELAS : C

MODUL 10

KEGIATAN PRAKTIKUM

- Berikut table data nilai siswa :



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

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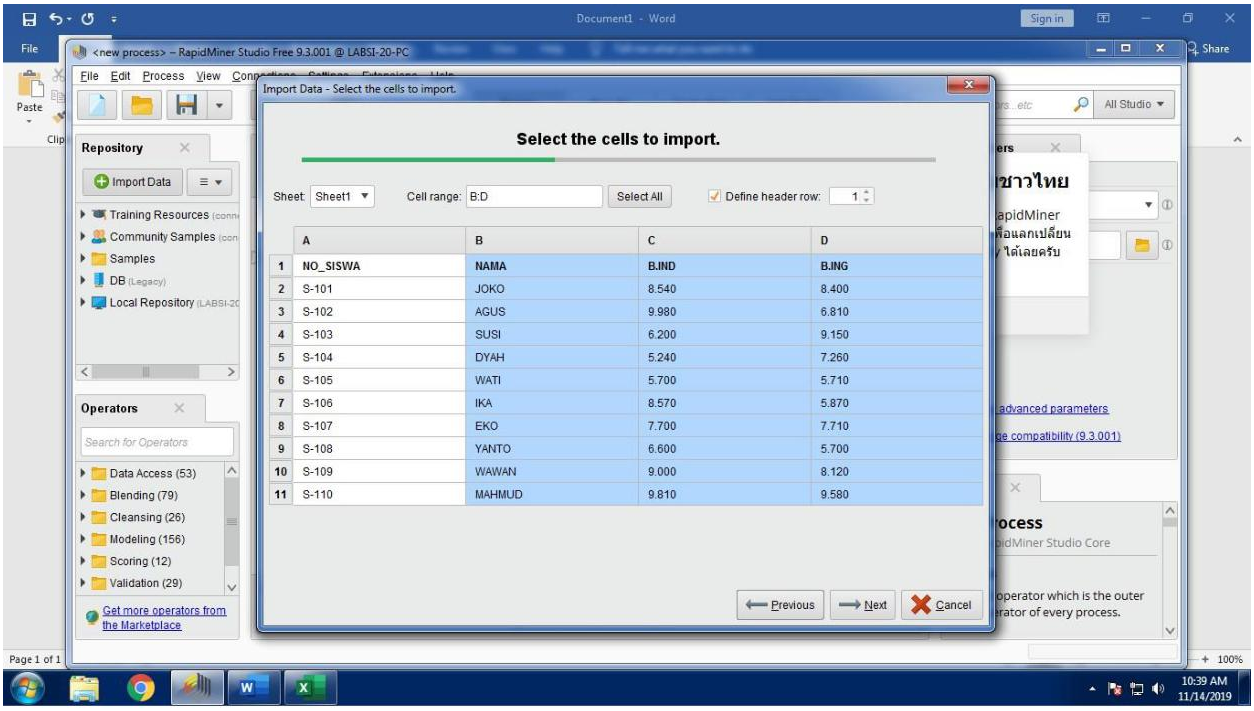
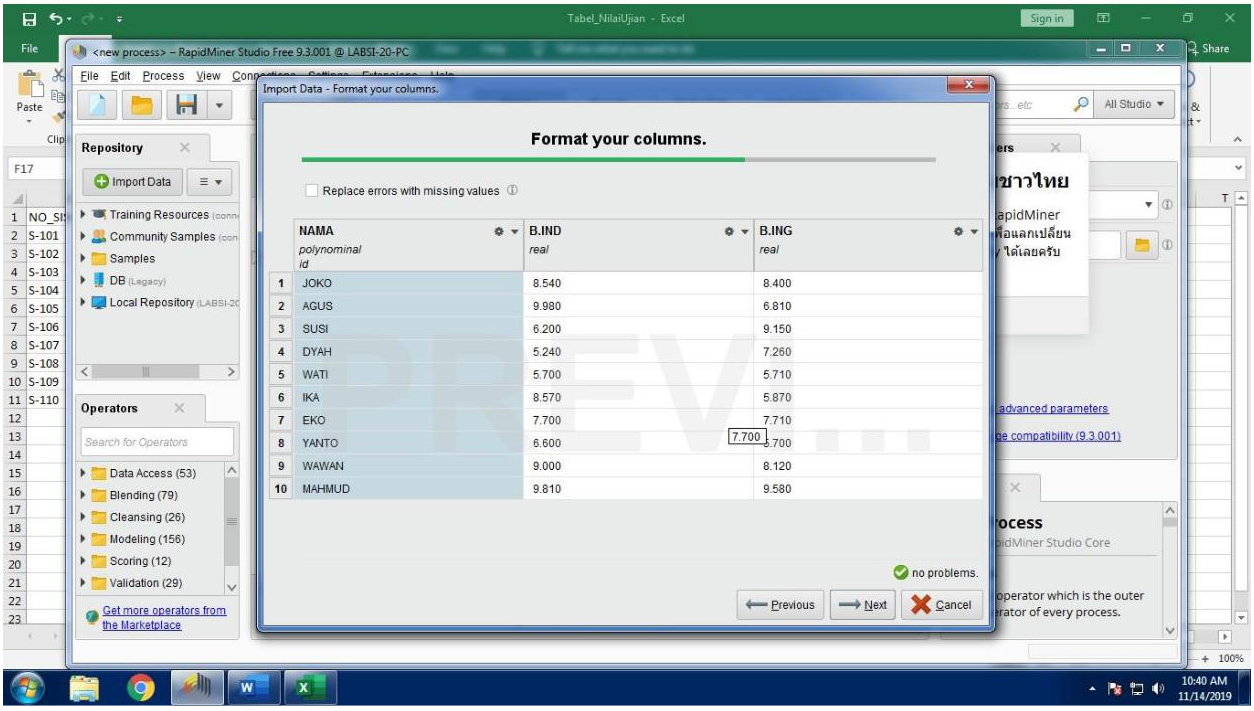
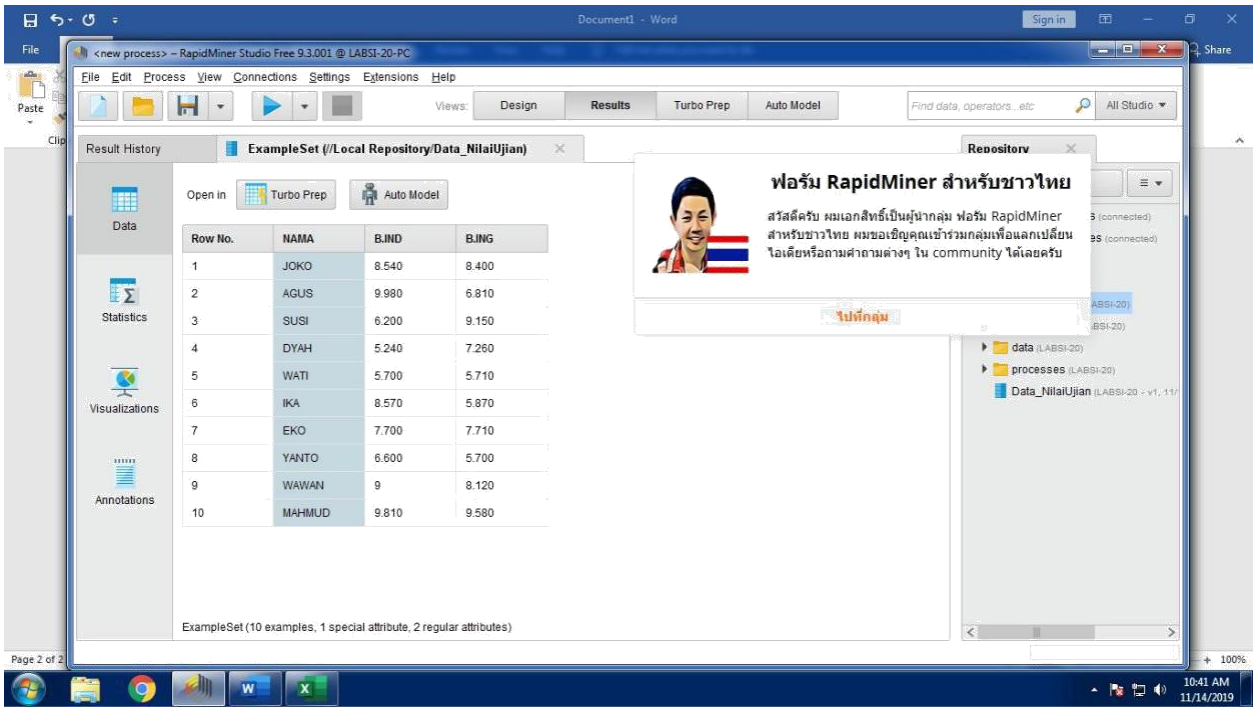
Gunakan file Tabel_NilaiUjian.xlxs sebagai data yang akan digunakan dalam proses Clustering. Lalu import ke dalam aplikasi RapidMiner.



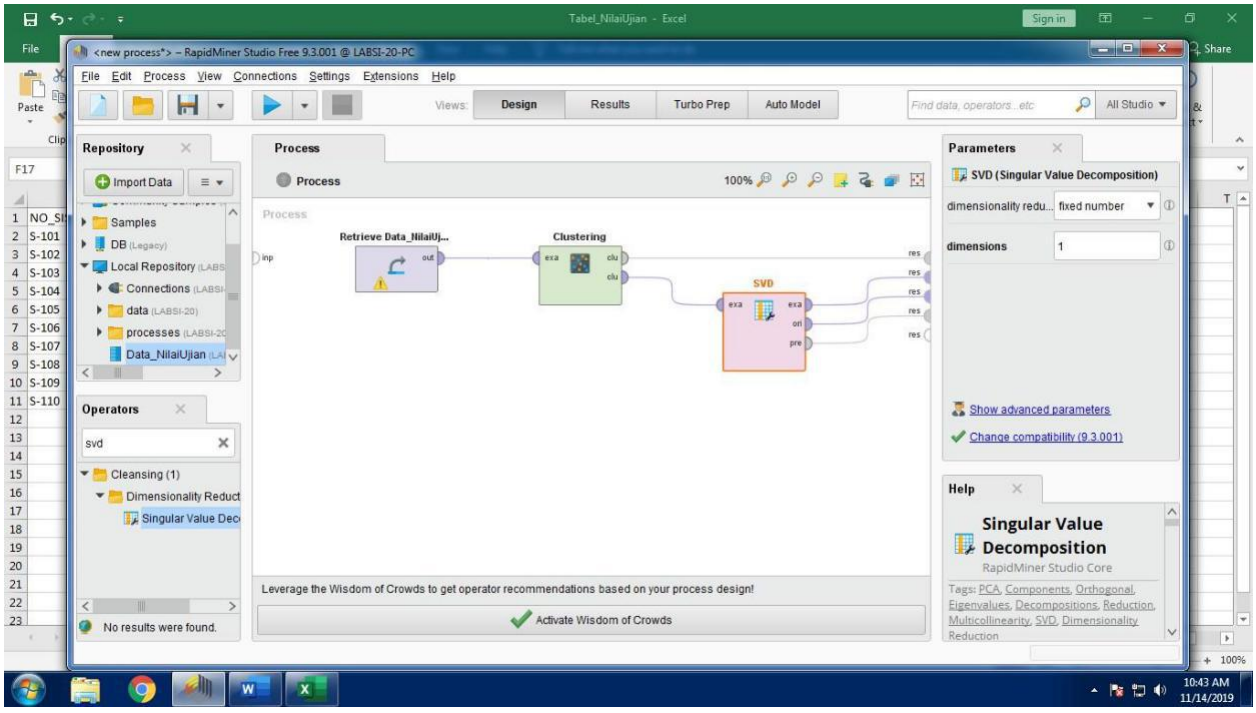
	A	B	C	D
1	NO_SISWA	NAMA	B.IND	B.ING
2	S-101	JOKO	8.540	8.400
3	S-102	AGUS	9.980	6.810
4	S-103	SUSI	6.200	9.150
5	S-104	DYAH	5.240	7.260
6	S-105	WATI	5.700	5.710
7	S-106	IKA	8.570	5.870
8	S-107	EKO	7.700	7.710
9	S-108	YANTO	6.600	5.700
10	S-109	WAWAN	9.000	8.120
11	S-110	MAHMUD	9.810	9.580



	NAMA (polynominal, id)	B.IND (real)	B.ING (real)
1	JOKO	8.540	8.400
2	AGUS	9.980	6.810
3	SUSI	6.200	9.150
4	DYAH	5.240	7.260
5	WATI	5.700	5.710
6	IKA	8.570	5.870
7	EKO	7.700	7.710
8	YANTO	6.600	5.700
9	WAWAN	9.000	8.120
10	MAHMUD	9.810	9.580



- Tambahkan operator k-Means. Lalu Jalankan dengan menekan tombol run (F11)



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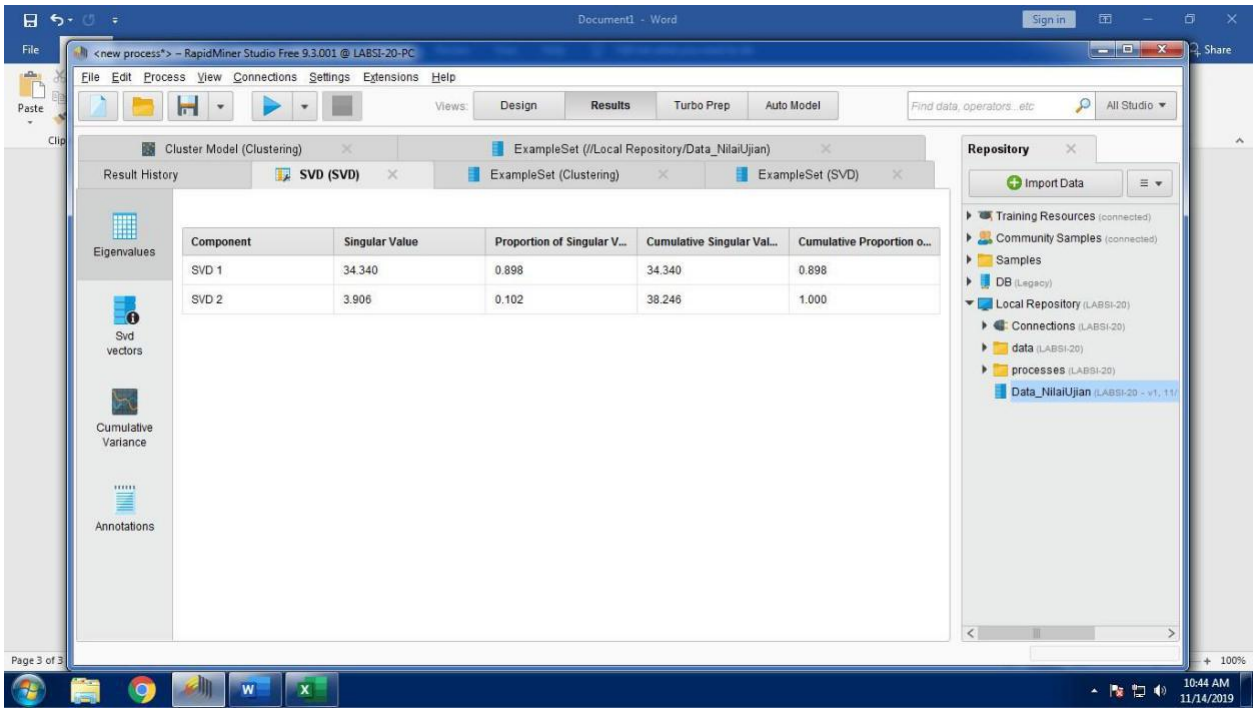
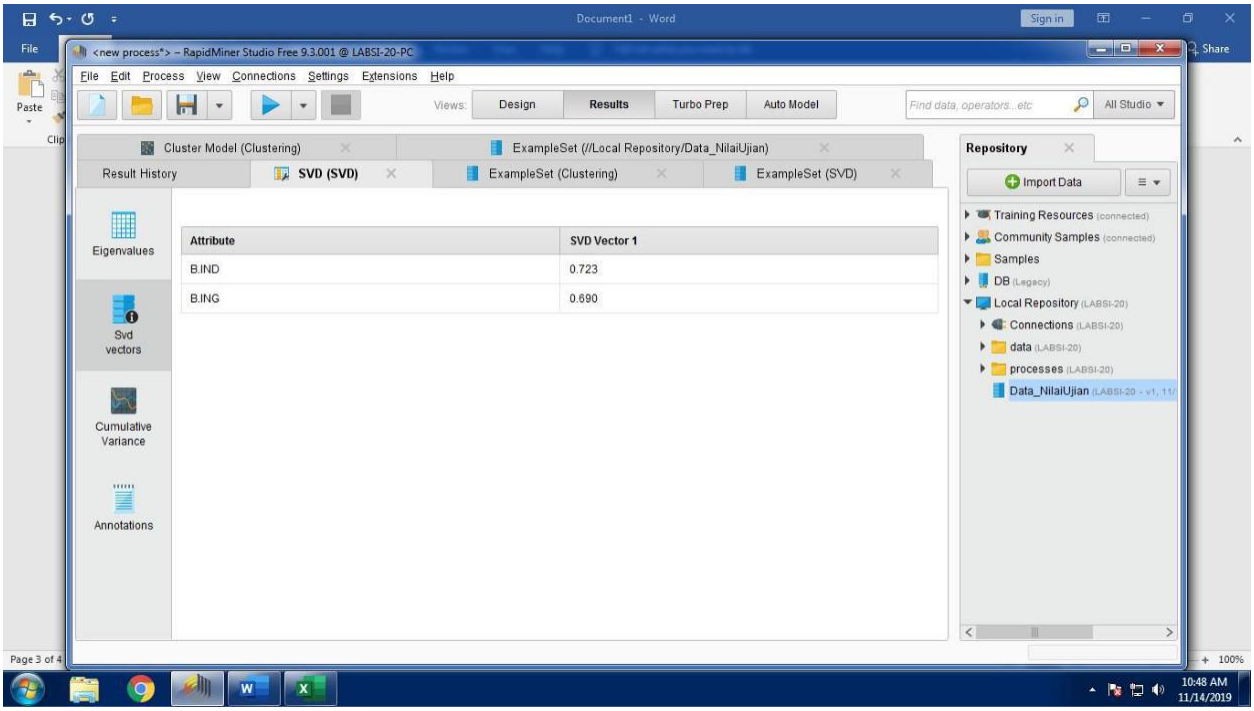
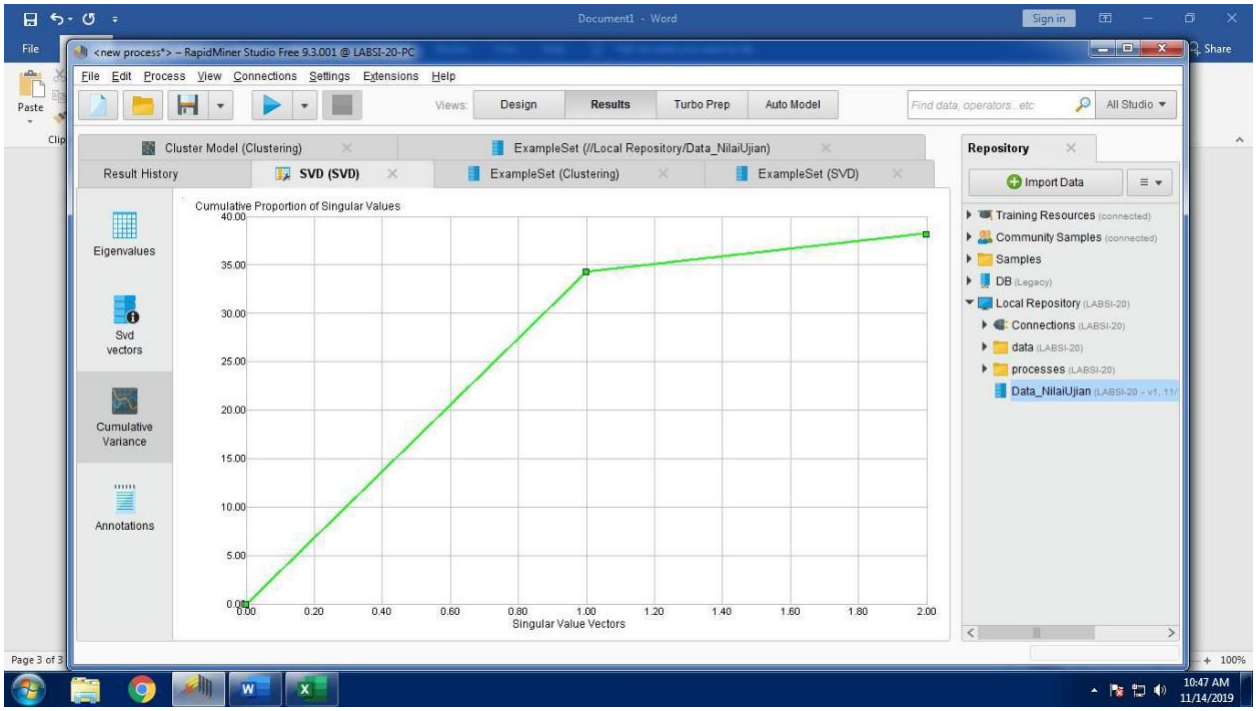
Nilai Eingenvalue



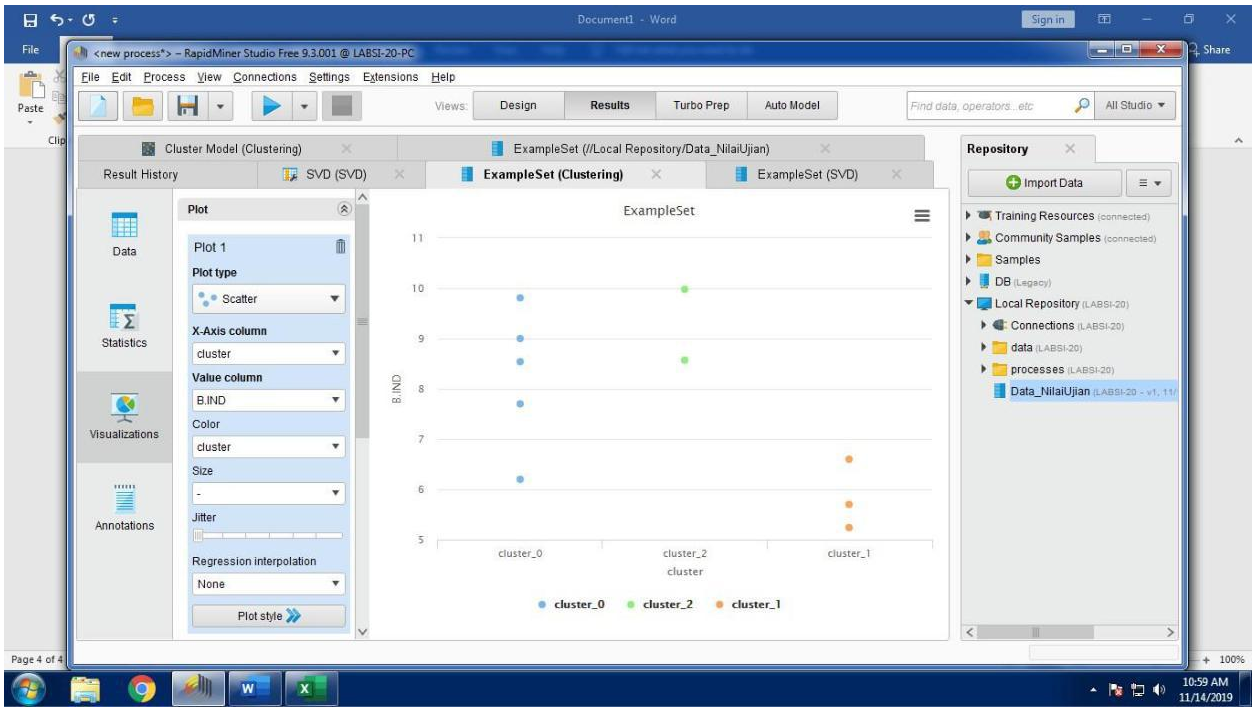
• Nilai Svd vectors



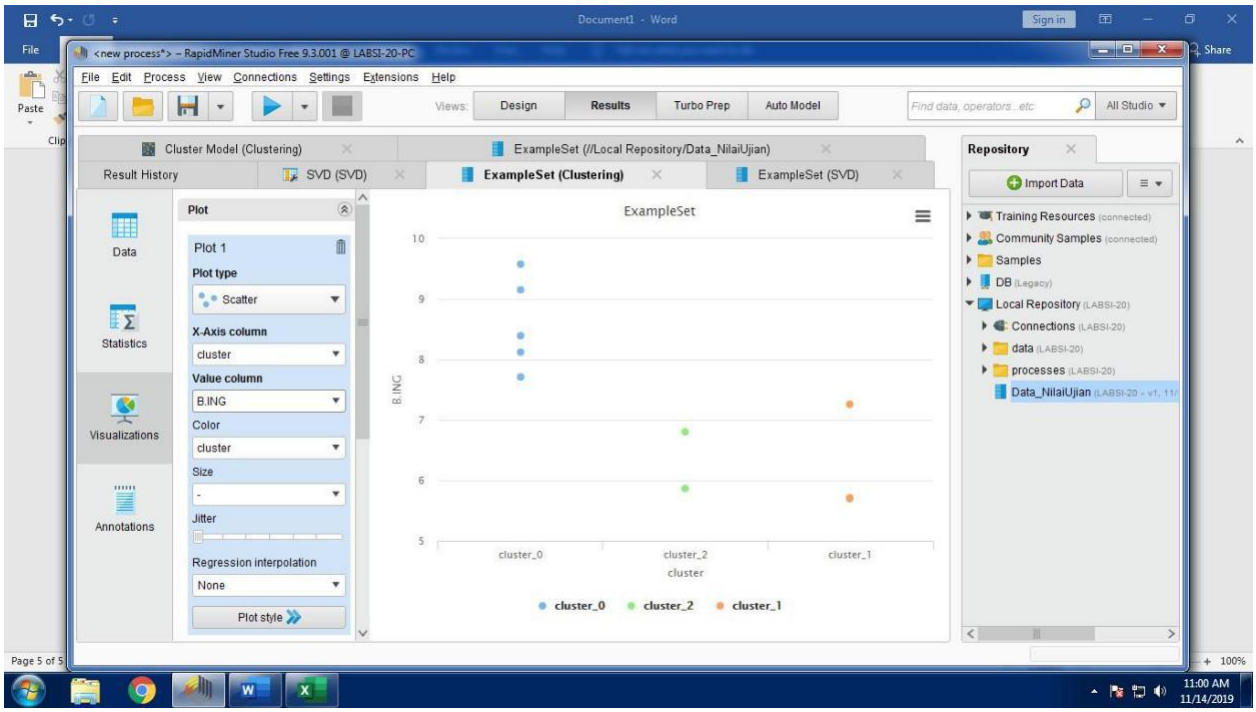
- Nilai Cumulative Variance



-
  - Kelompok siswa bidang B.indonesia



- Kelompok siswa bidang B.inggris



-
  - Kelompok masing-masing siswa yang dikelompokkan bedasarkan cluster 0, cluster 1, cluster 2.

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

  -

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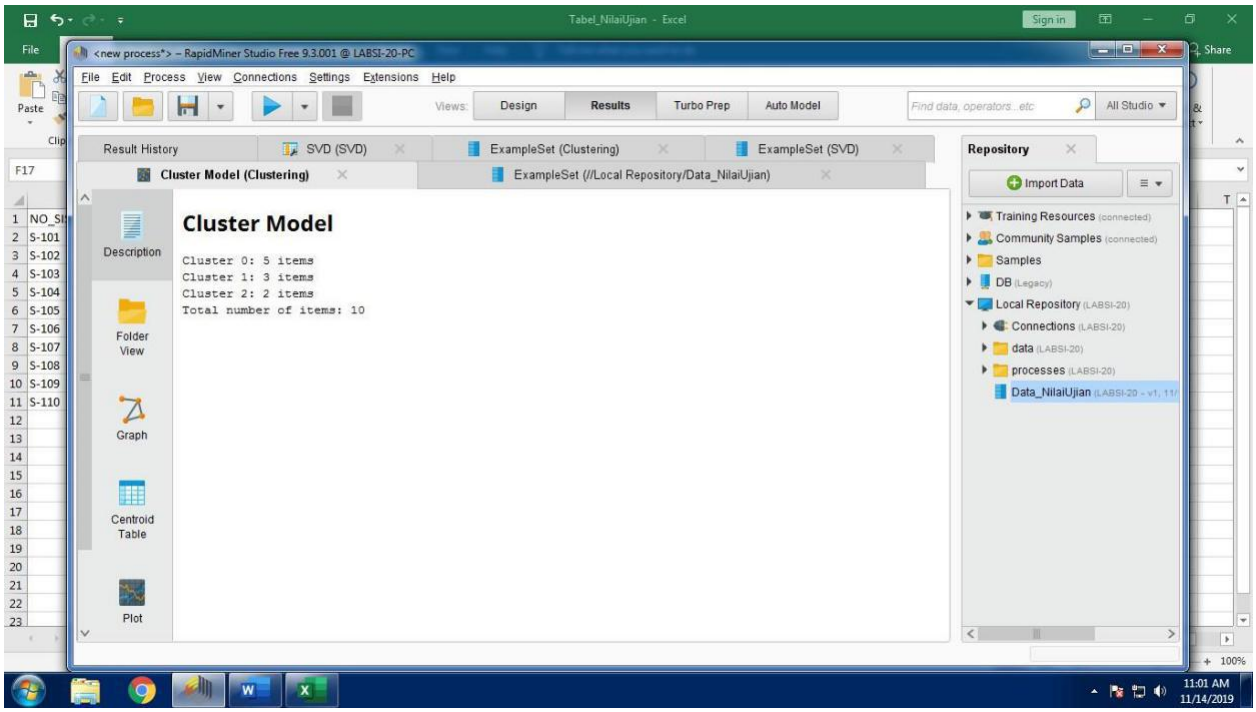
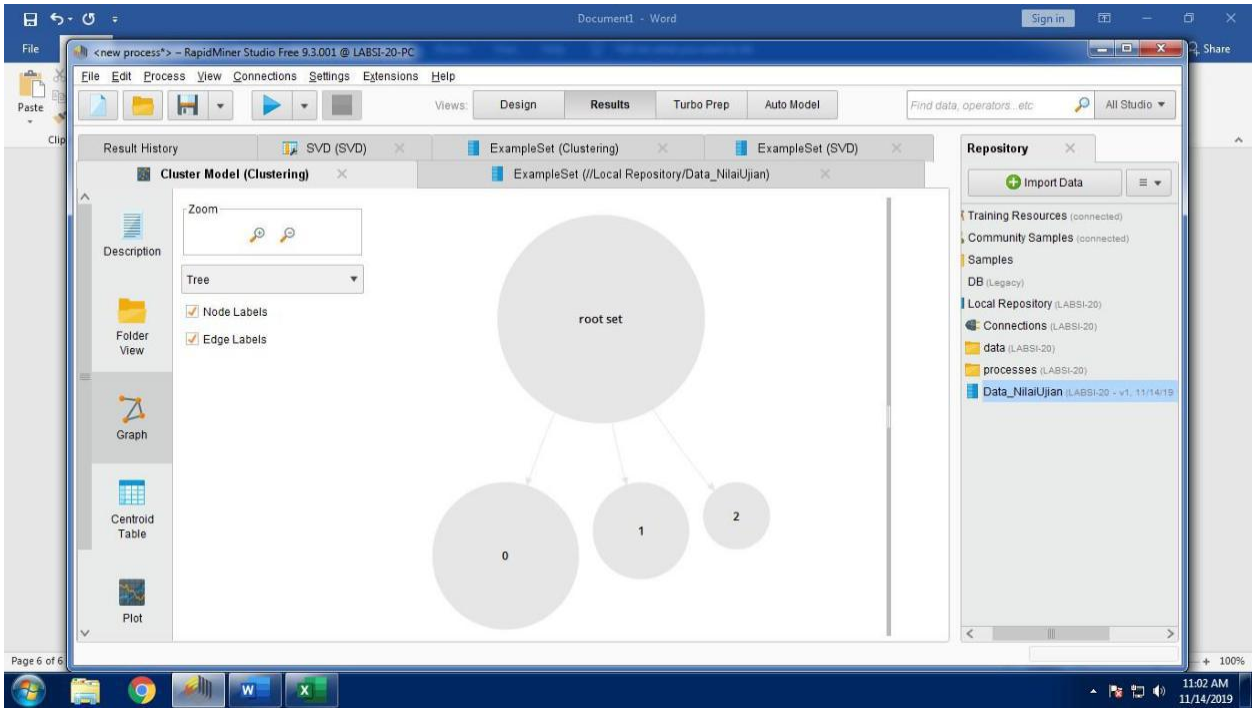
Description



-
  - Graph


Document1 - Word
<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-20-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Result History
SVD (SVD)
ExampleSet (Clustering)
ExampleSet (SVD)
Cluster Model (Clustering)
ExampleSet (//Local Repository/Data_NilaiUjian)
Description
Folder View
Graph
Centroid Table
Plot
Zoom
Tree
Node Labels
Edge Labels
root set
0
1
2
Repository
Import Data
Training Resources (connected)
Community Samples (connected)
Samples
DB (Legacy)
Local Repository (LABSI-20)
Connections (LABSI-20)
data (LABSI-20)
processes (LABSI-20)
Data_NilaiUjian (LABSI-20 - v1, 11/14/19
11:02 AM
11/14/2019

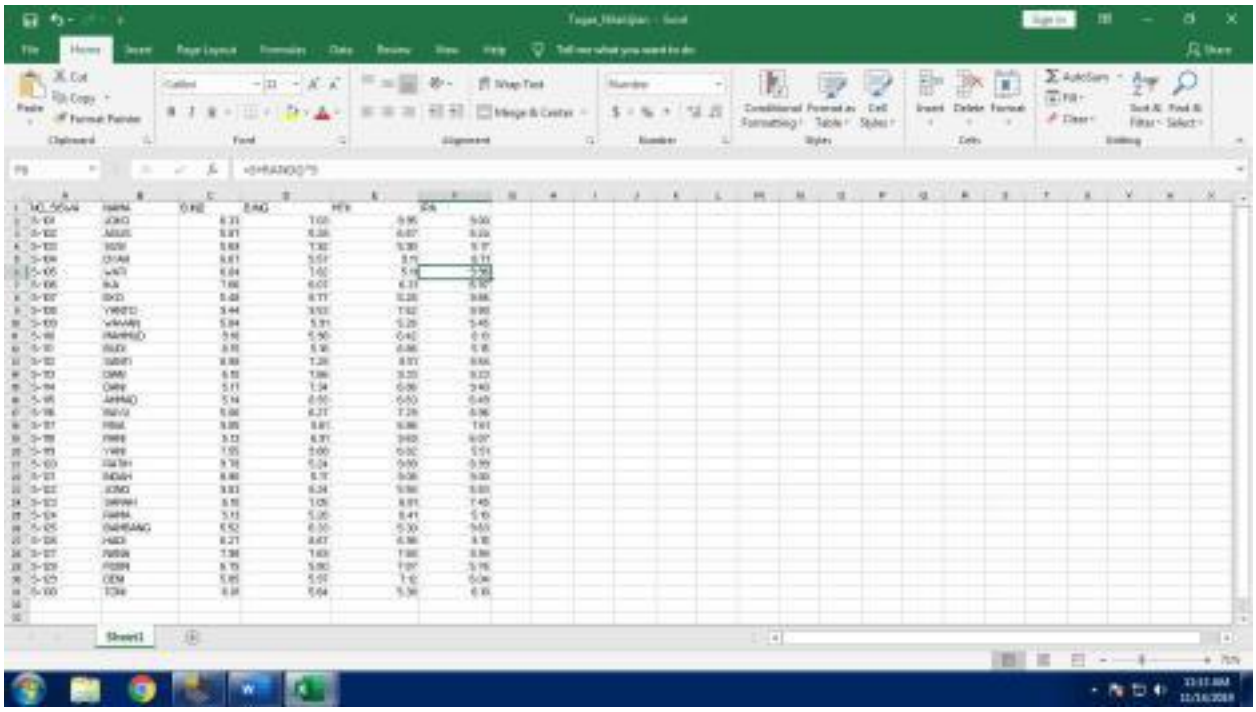
Kesimpulan :

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

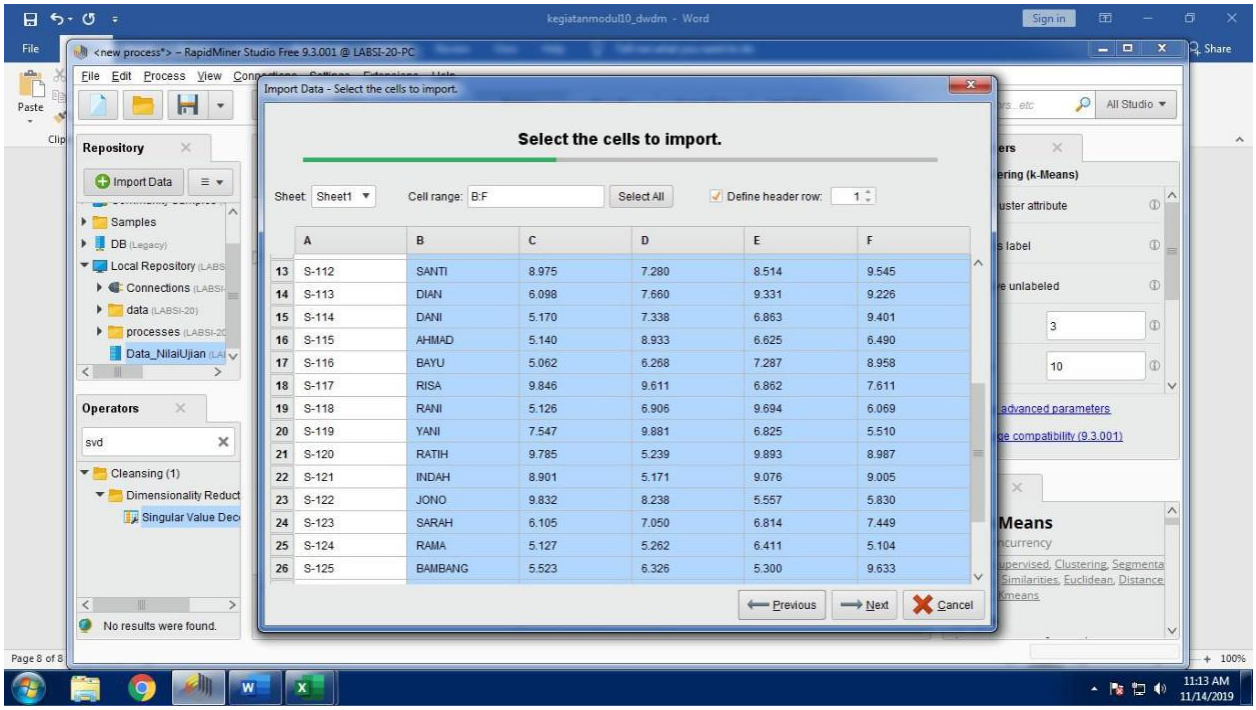
1. Cluster 2 yang diajukan untuk lomba olimpiade bidang B.Indonesia
2. Cluster 0 yang diajukan untuk lomba olimpiade bidang B.Inggris

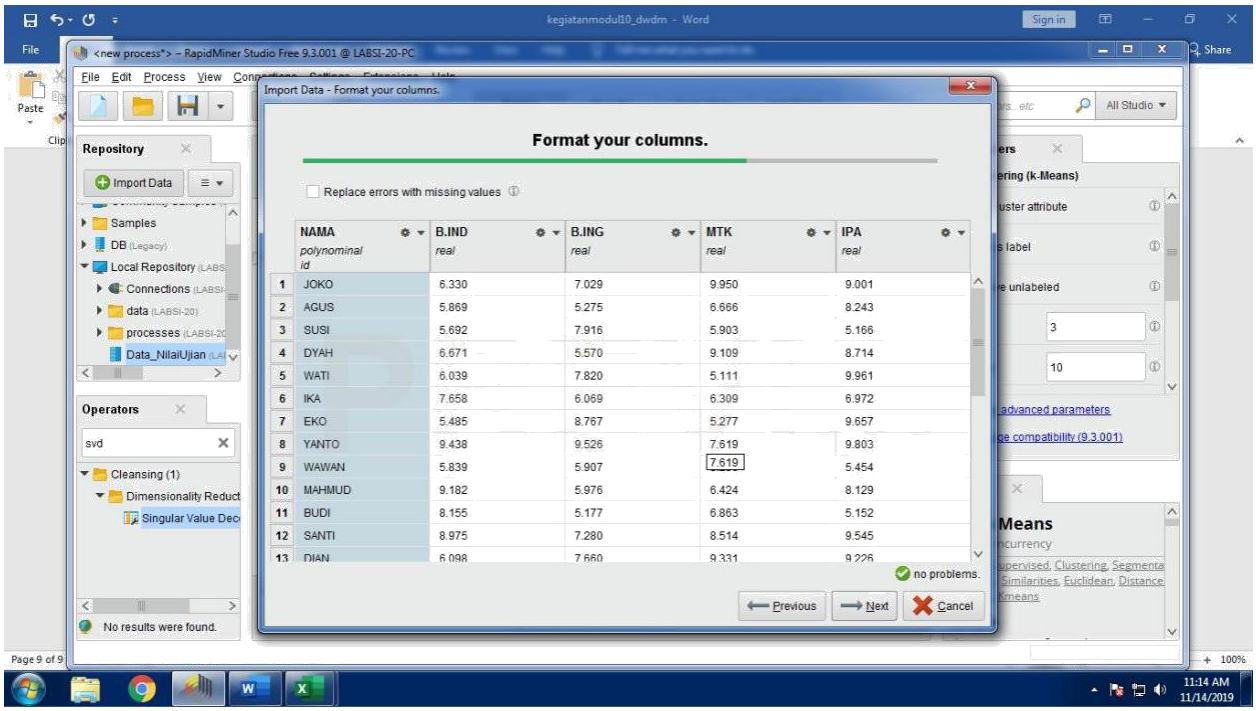
Tugas

- Berikut adalah table siswa dan memasukkan nilai secara random dengan =5+RAND()*5

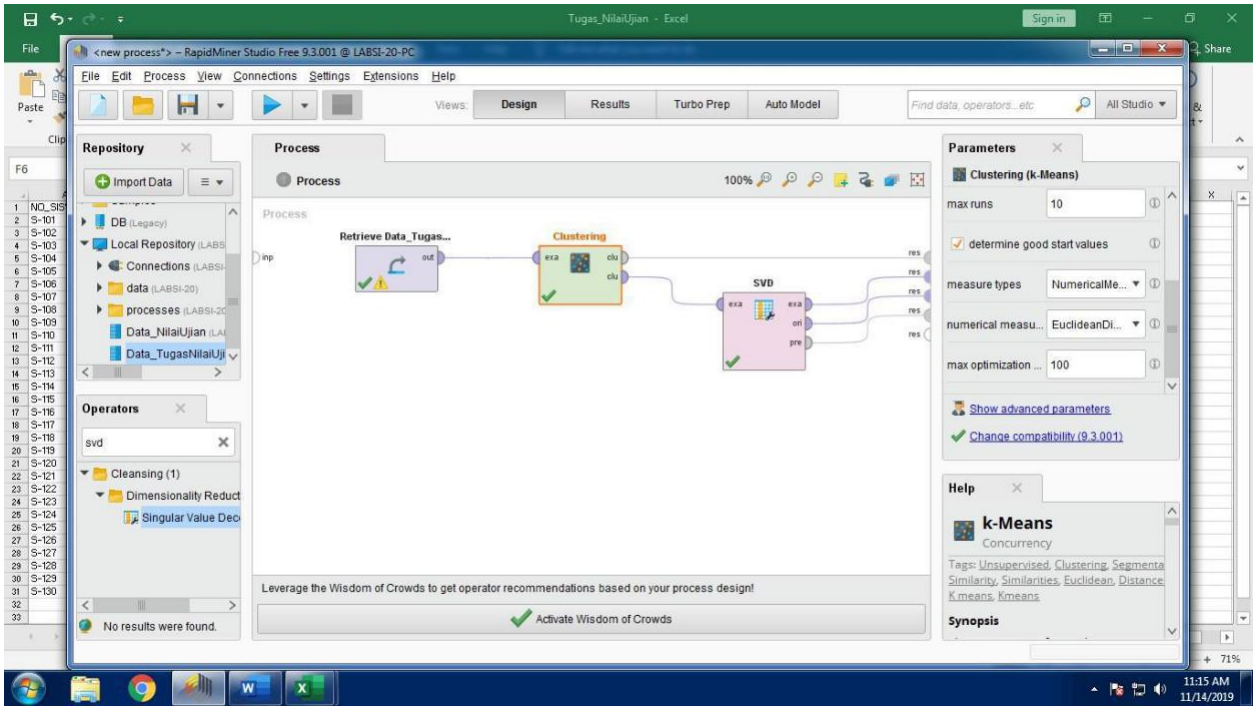


- Gunakan file Tugas_NilaiUjian.xlxs sebagai data yang akan digunakan dalam proses Clustering. Lalu import ke dalam aplikasi RapidMiner.

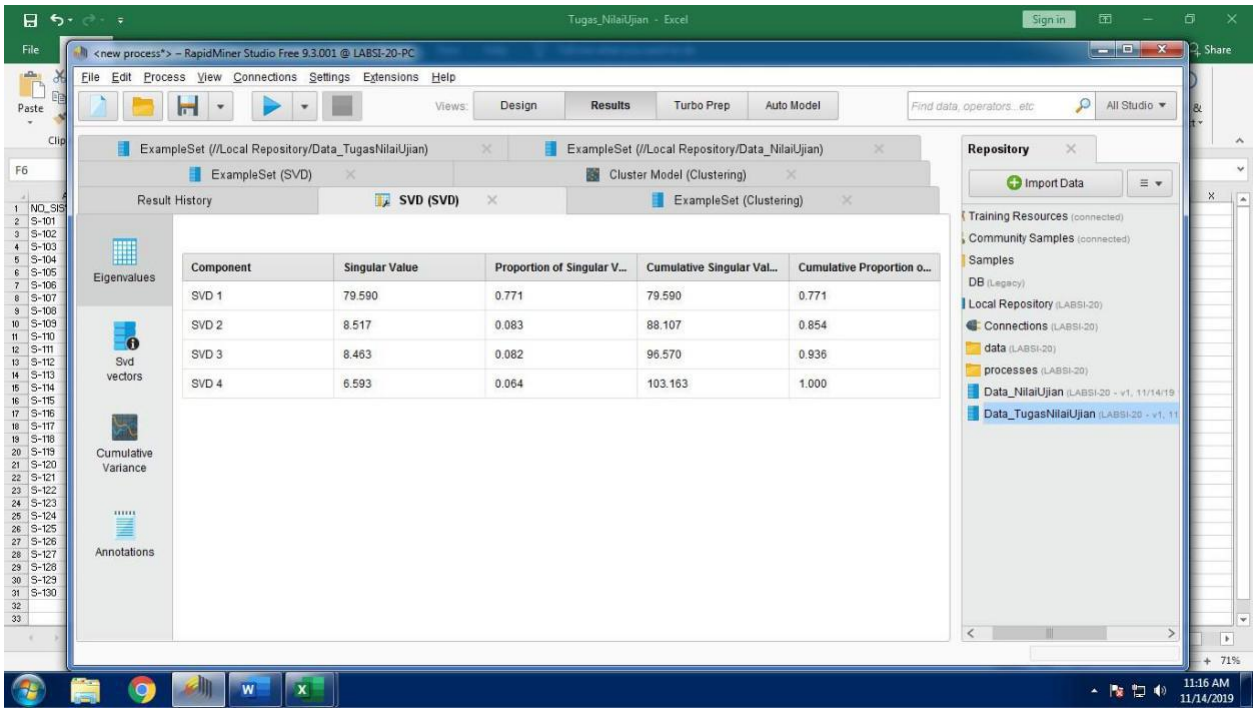




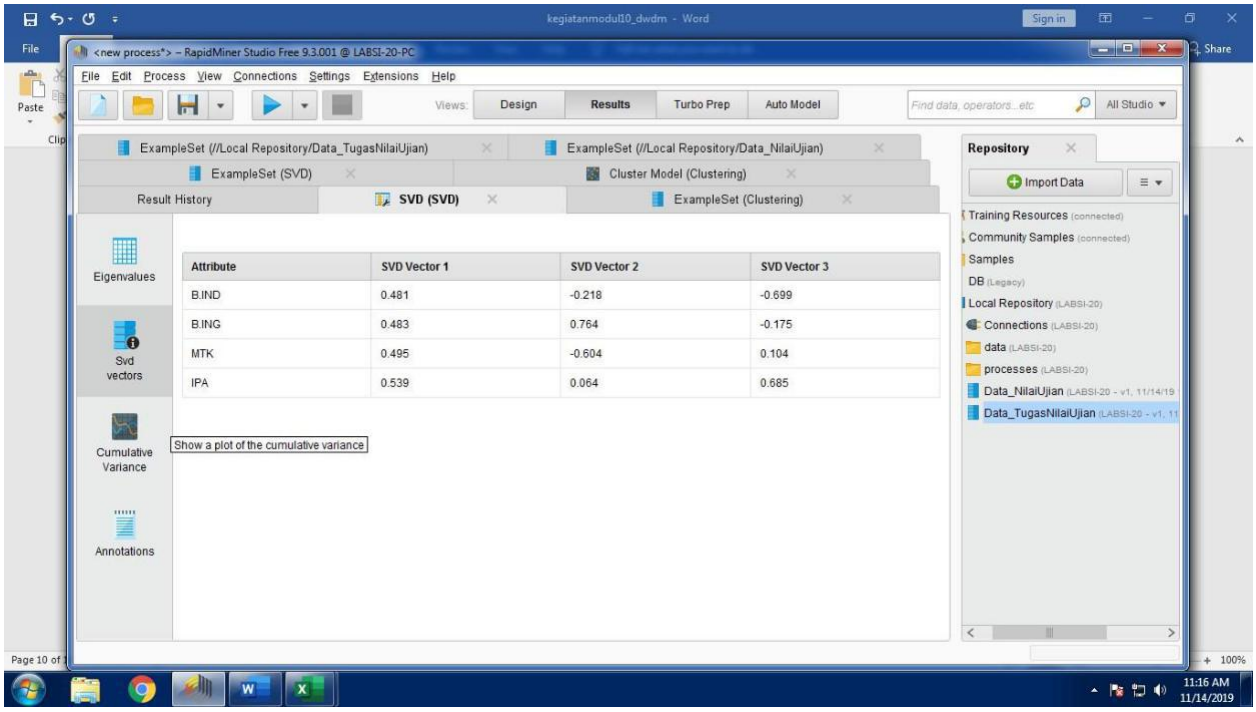
- Tambahkan operator k-Means. Lalu Jalankan dengan menekan tombol run (F11)



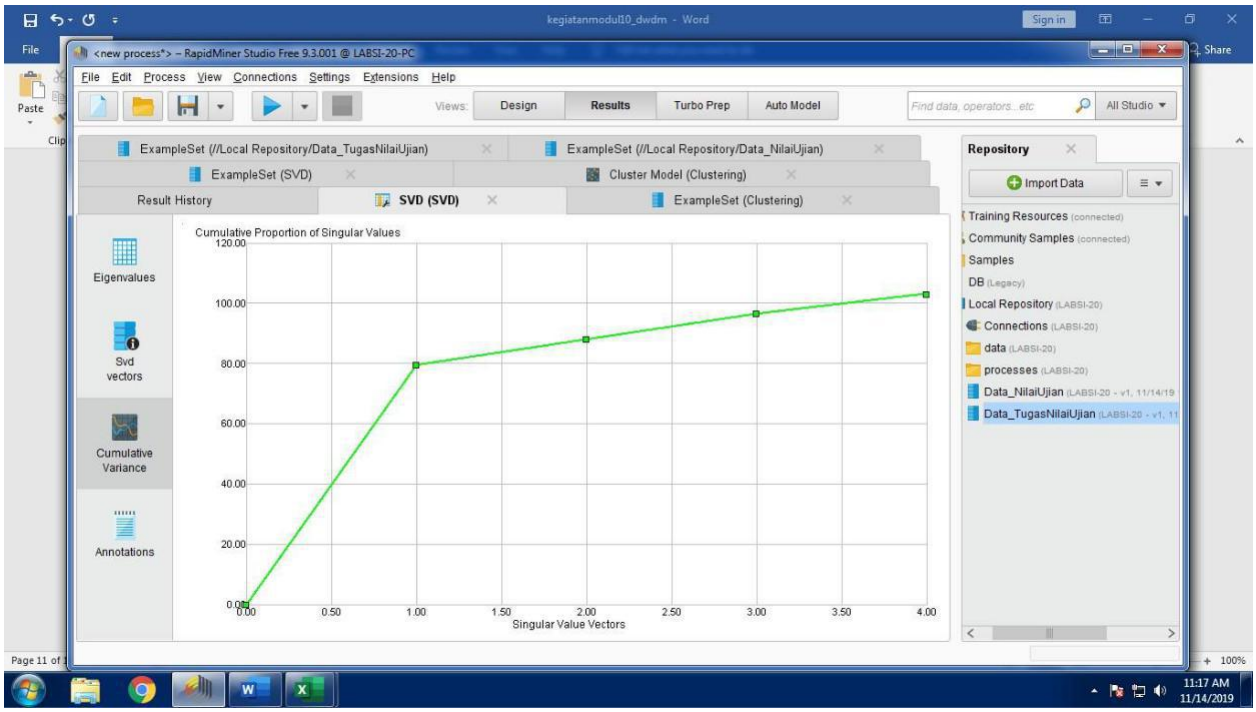
- Nilai Eigenvalue



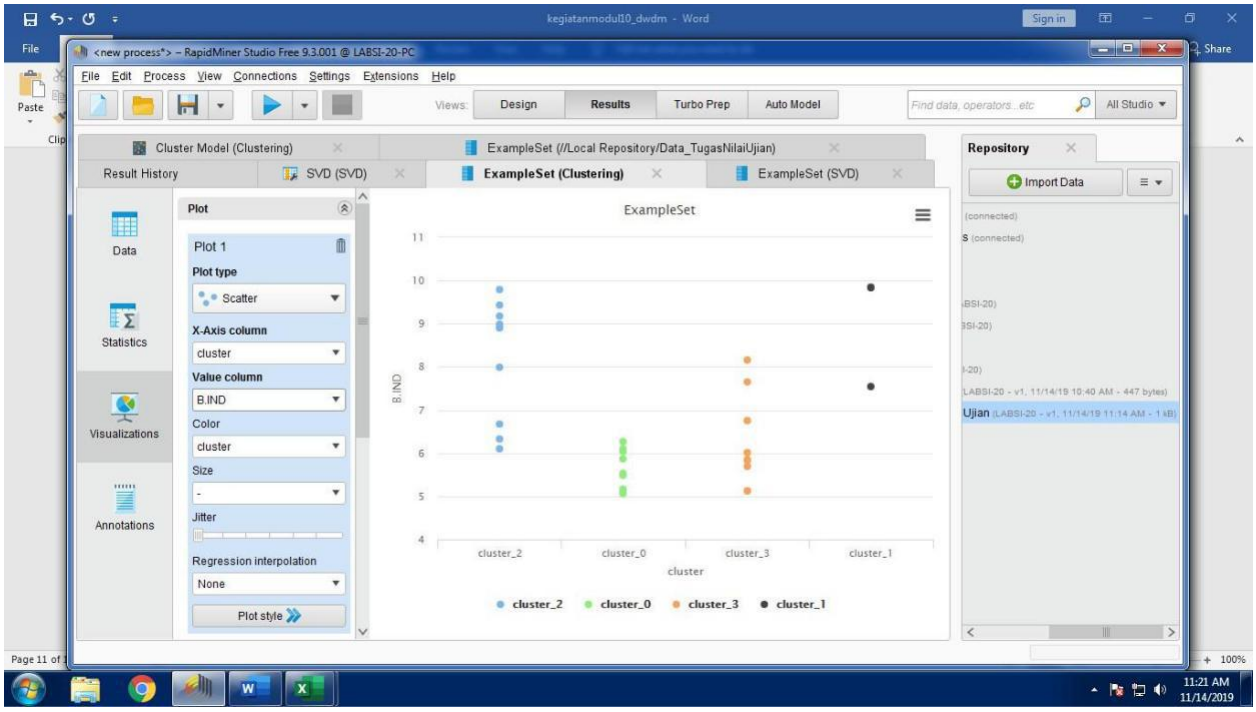
- Nilai Svd Vectors



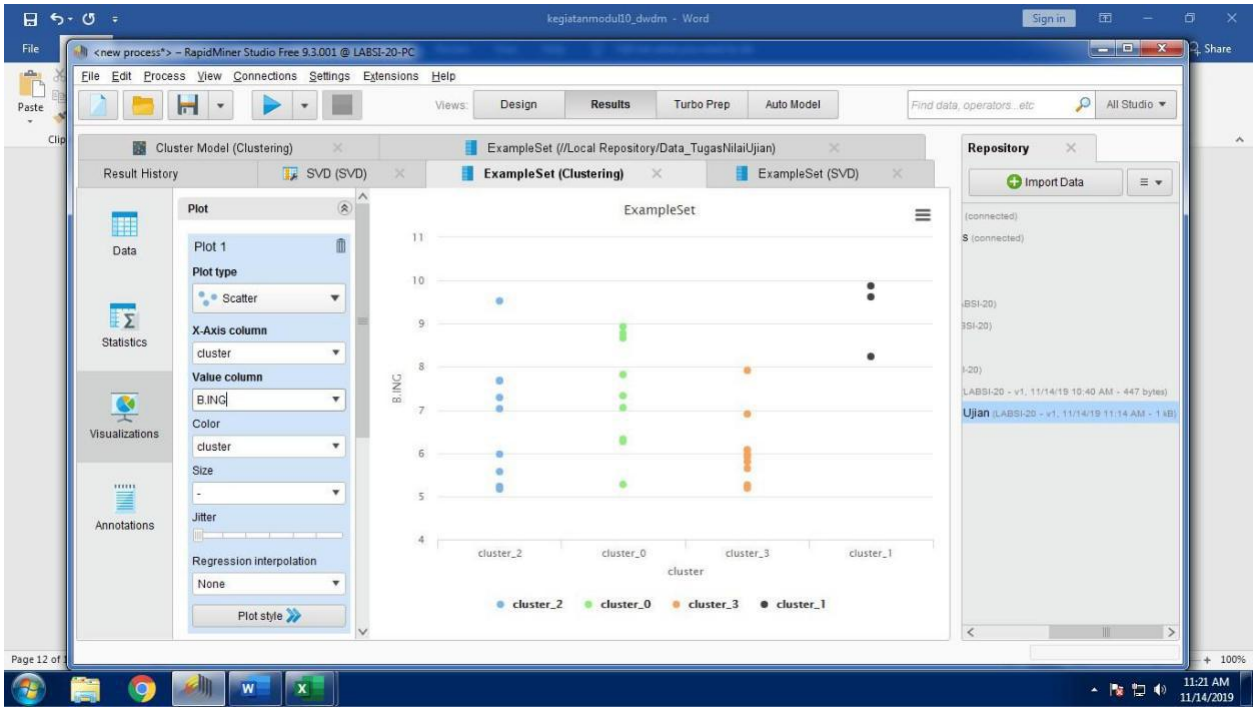
- Nilai Cumulative Variance



Kelompok siswa bidang B.INDO



- Kelompok siswa kelompok B.ING


kegiatanmodul10_dwdm - Word
<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-20-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Cluster Model (Clustering)
ExampleSet (//Local Repository/Data_TugasNilaiUjian)
Result History
SVD (SVD)
ExampleSet (Clustering)
ExampleSet (SVD)
Repository
Import Data
Data
Statistics
Visualizations
Annotations
Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
B.ING
Color
cluster
Size
Jitter
Regression interpolation
None
Plot style
ExampleSet
B.ING
cluster_2
cluster_0
cluster_3
cluster_1
Ujian
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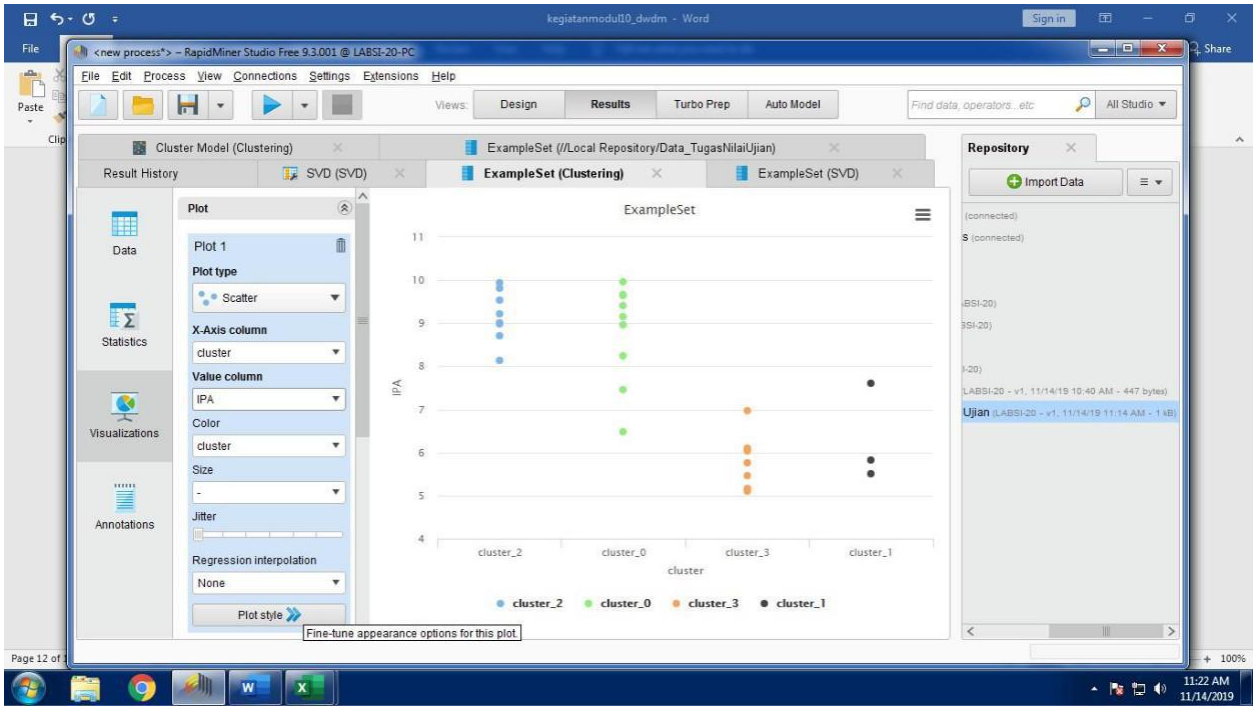
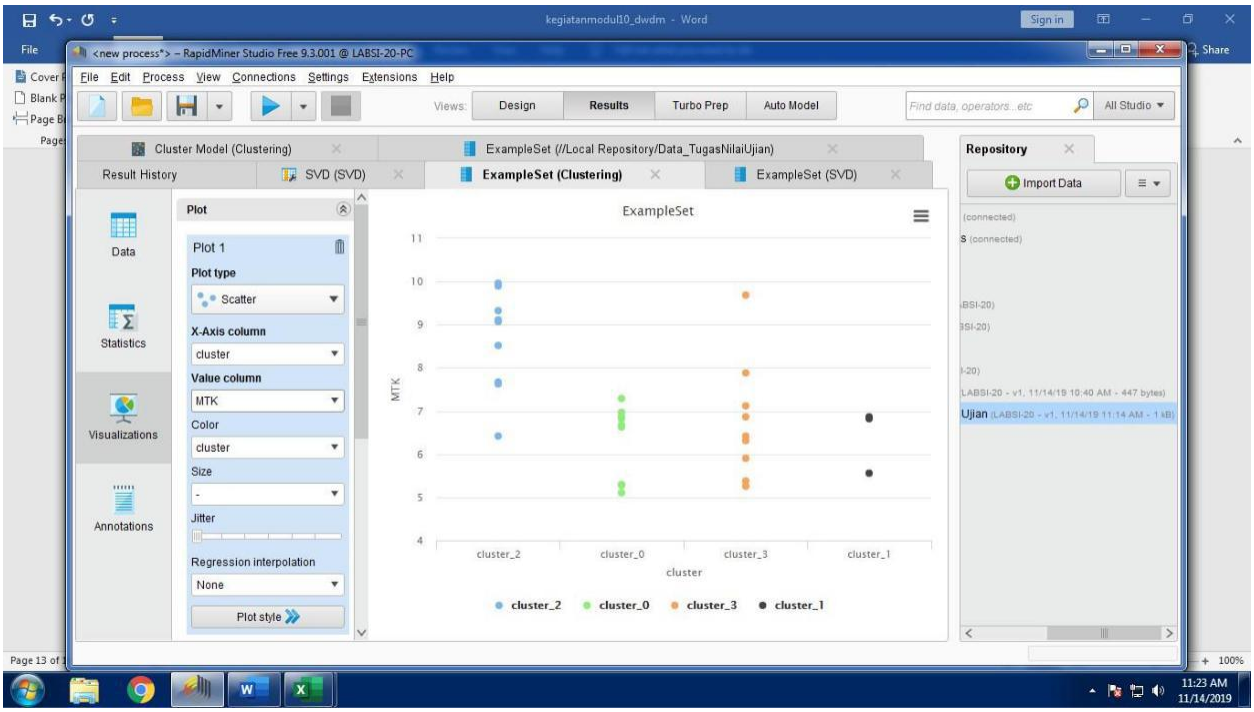
11/14/2019

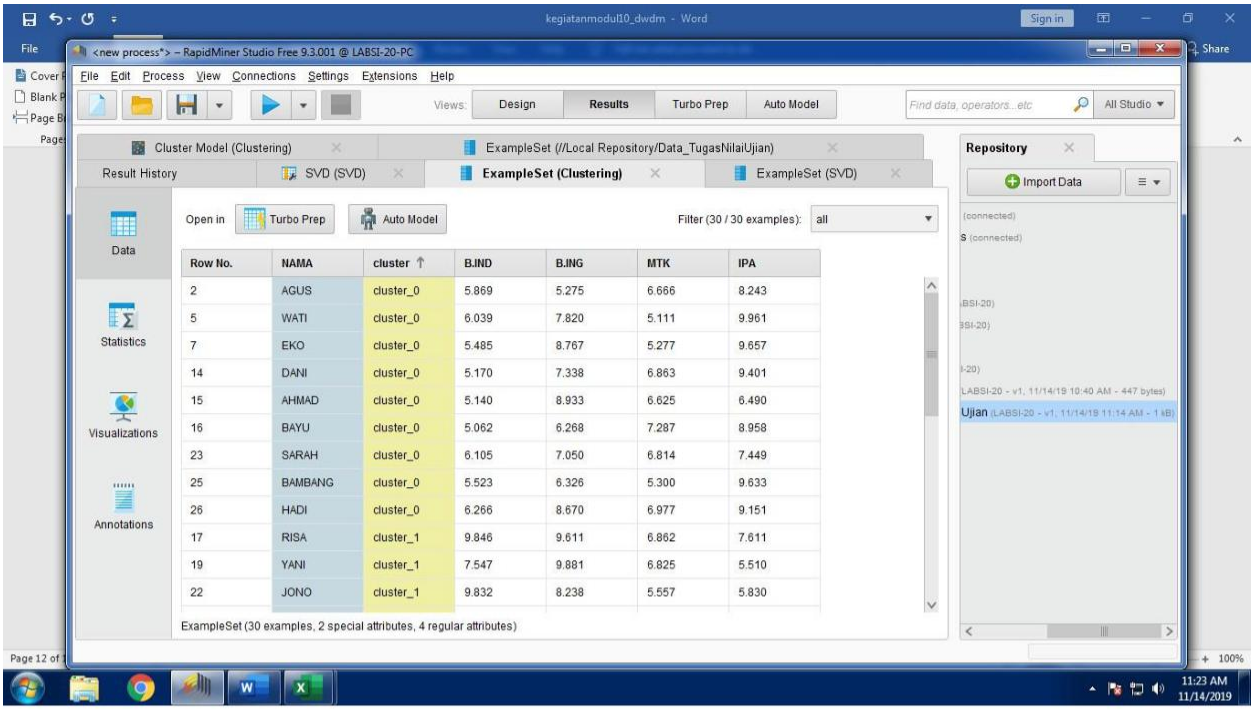
- Kelompok siswa bidang IPA

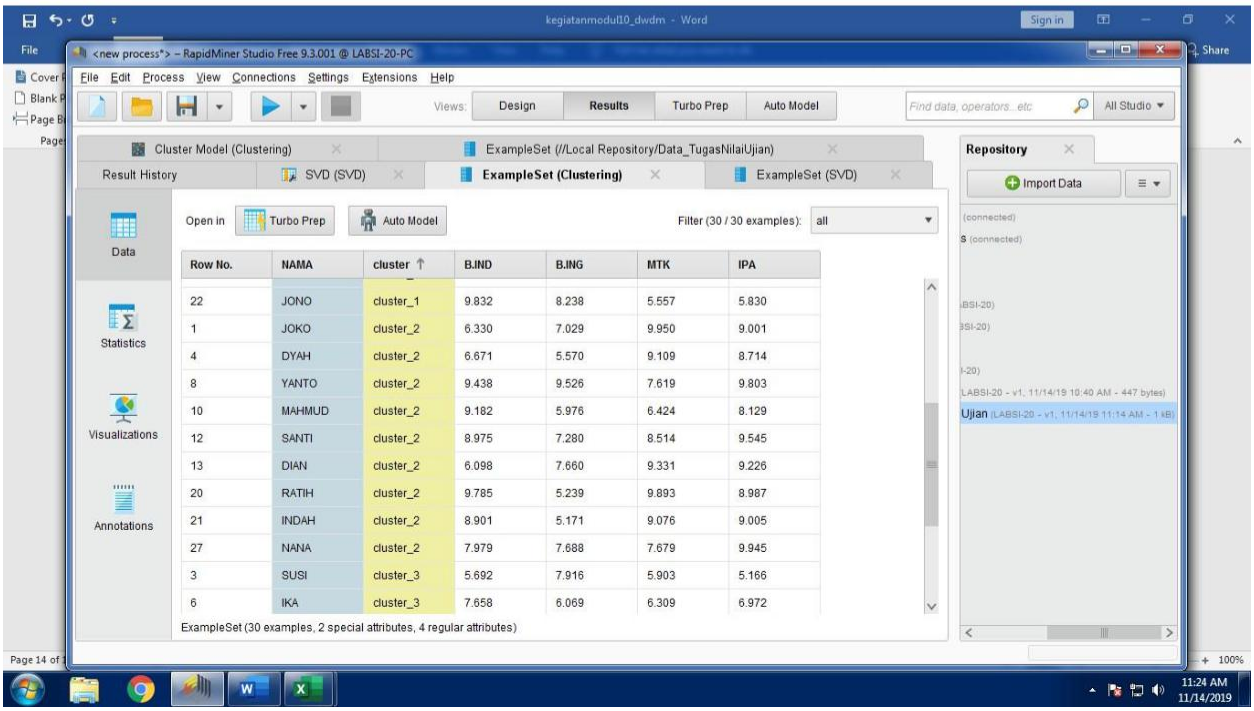


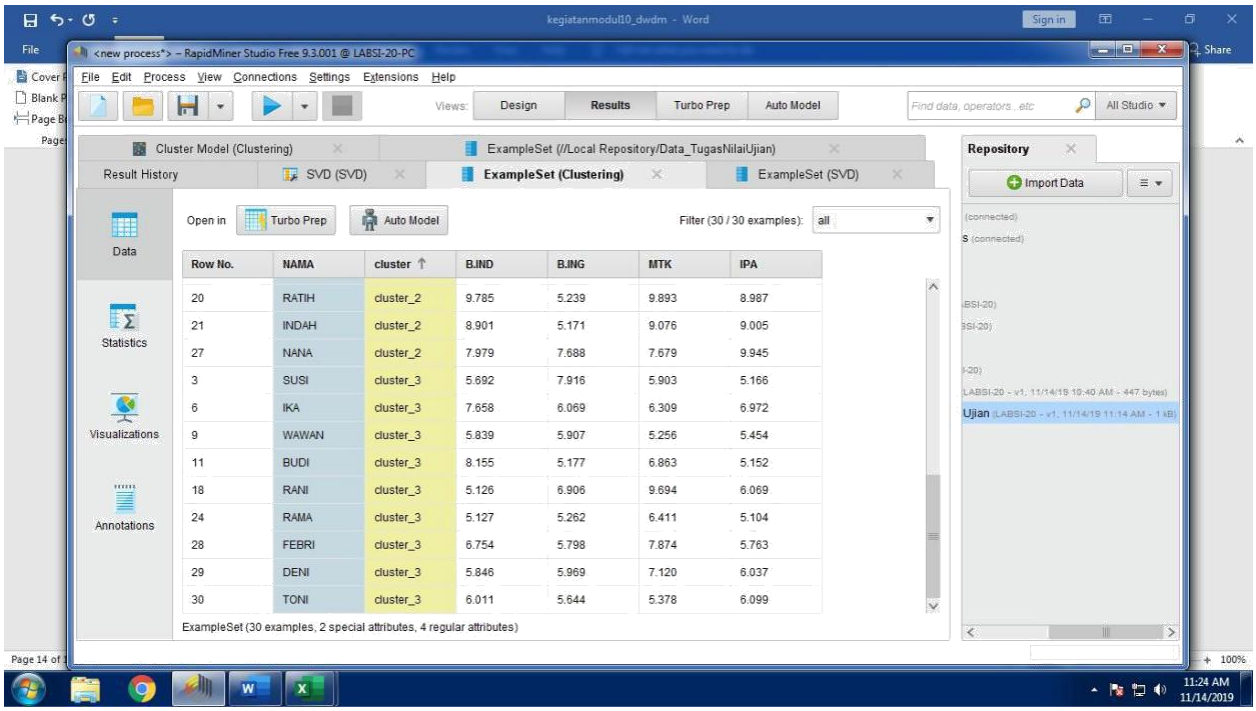
- Kelompok siswa bidang MTK



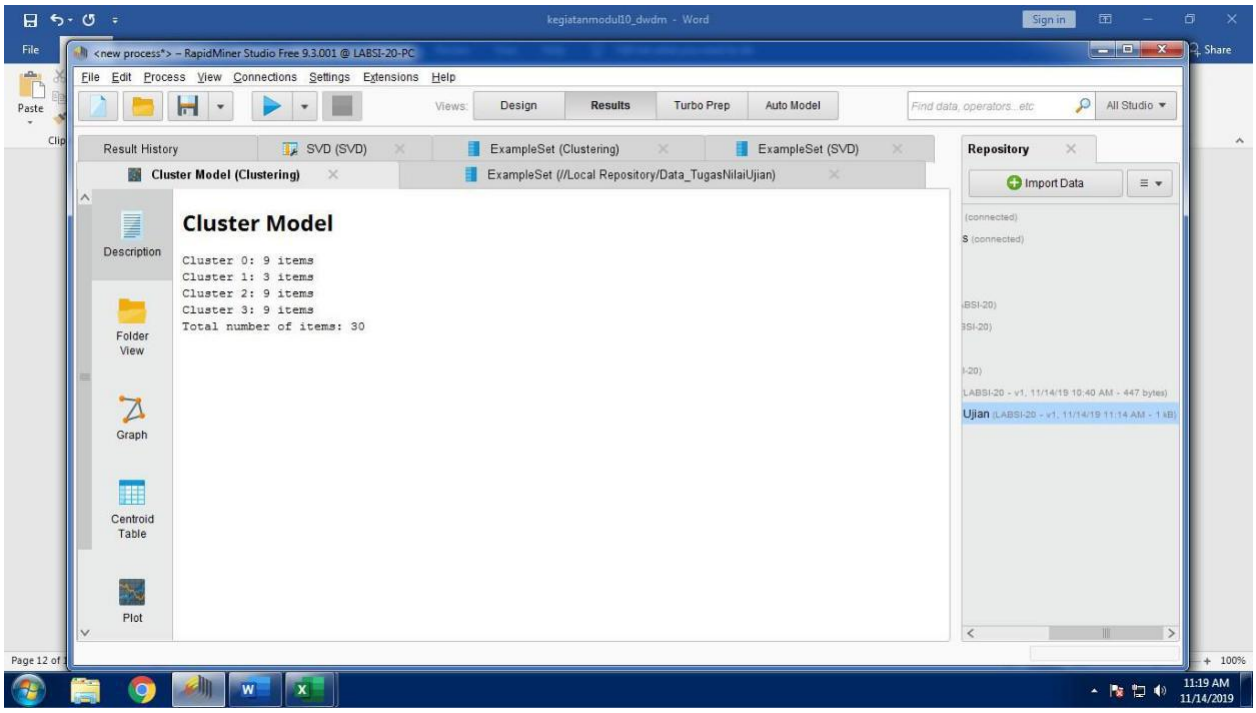
- Masing-masing nama siswa yang terdapat dalam kelompok cluster 0, cluster 1, cluster 2, cluster 3.



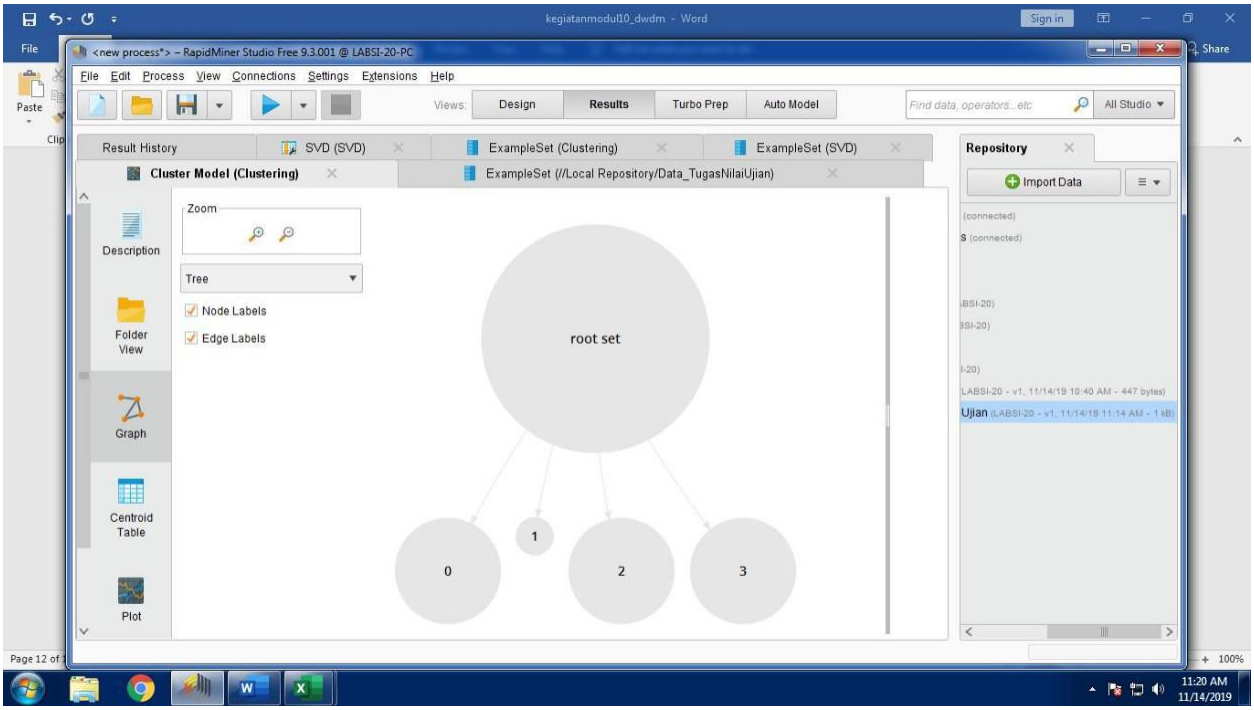




- Description



- Graph


kegiatanmodul10_dwdm - Word
<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-20-PC
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Edge Labels
root set
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11:20 AM
11/14/2019