

NAMA : Fischella Angieta C

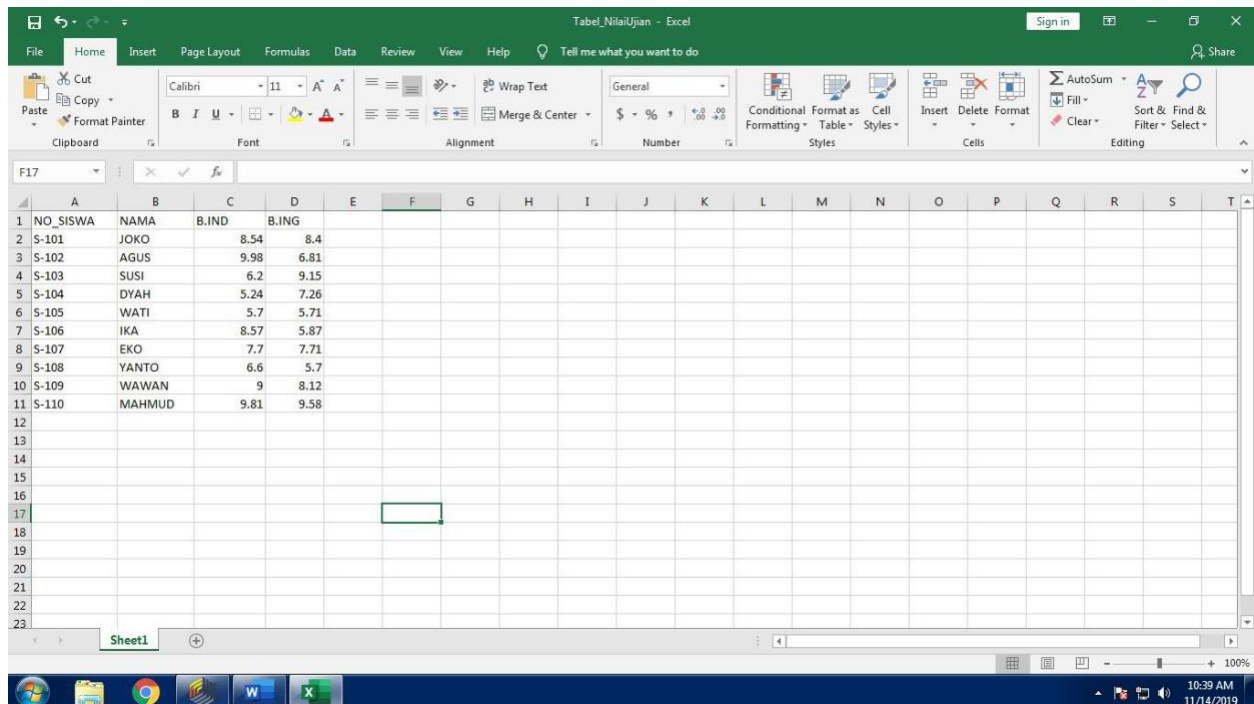
NIM : L200170077

KELAS : C

MODUL 10

KEGIATAN PRAKTIKUM

- Berikut table data nilai siswa :

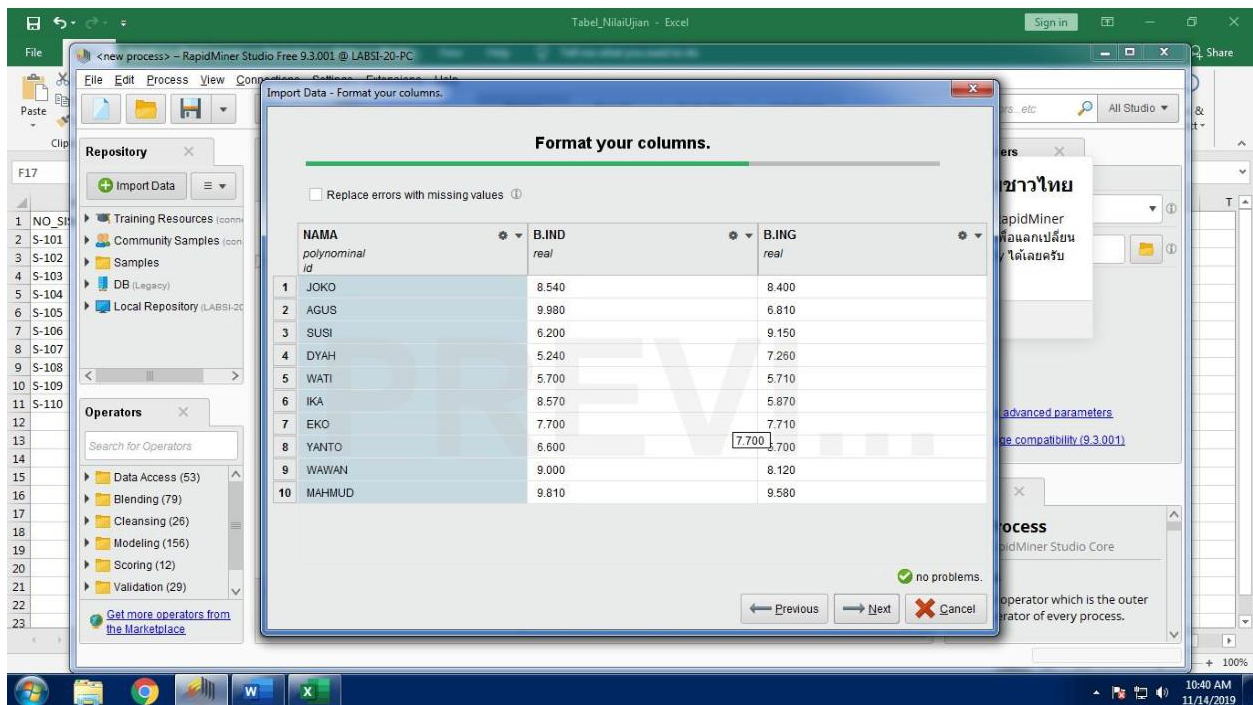
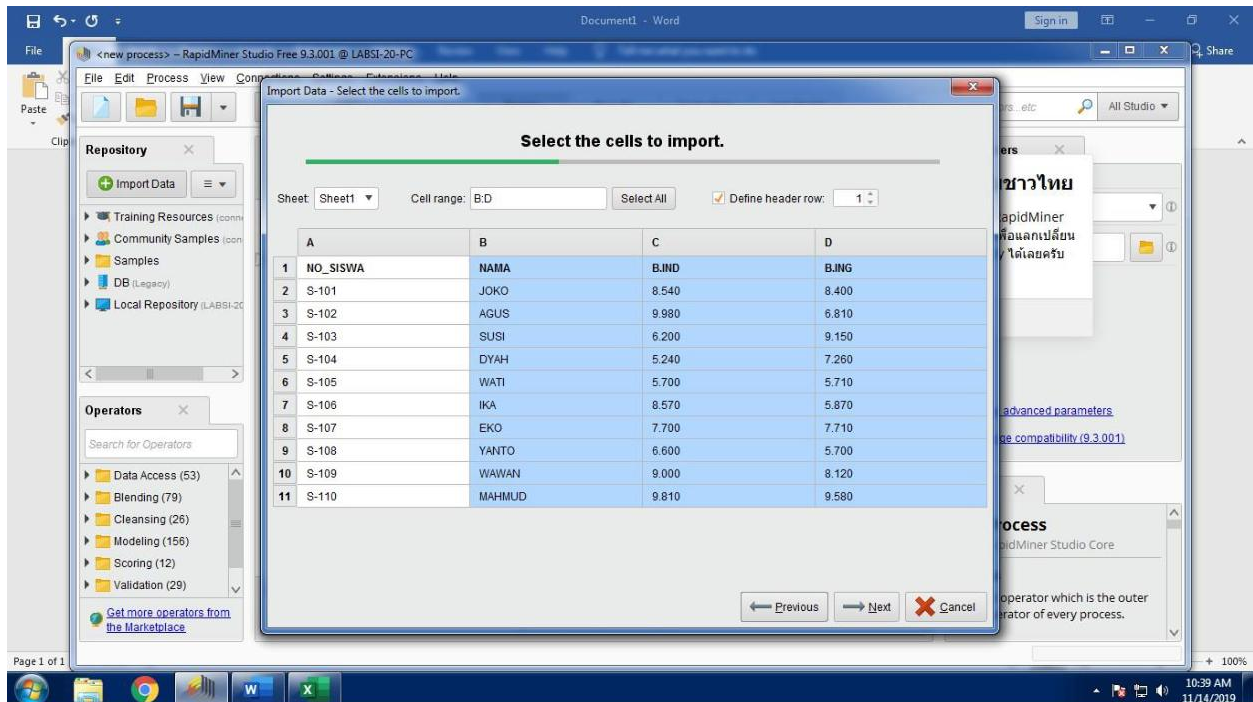


The screenshot shows a Microsoft Excel spreadsheet titled 'Tabel_NilaiUjian - Excel'. The spreadsheet contains a table with student data. The columns are labeled A through T, and the rows are numbered 1 through 23. The data is as follows:

1	NO_SISWA	NAMA	B.IND	B.ING
2	S-101	JOKO	8.54	8.4
3	S-102	AGUS	9.98	6.81
4	S-103	SUSI	6.2	9.15
5	S-104	DYAH	5.24	7.26
6	S-105	WATI	5.7	5.71
7	S-106	IKA	8.57	5.87
8	S-107	EKO	7.7	7.71
9	S-108	YANTO	6.6	5.7
10	S-109	WAWAN	9	8.12
11	S-110	MAHMUD	9.81	9.58
12				
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23				

The Excel interface includes the ribbon with tabs for File, Home, Insert, Page Layout, Formulas, Data, Review, View, and Help. The Home tab is active, showing options for Clipboard, Font, Alignment, Number, Styles, Cells, and Editing. The status bar at the bottom shows 'Sheet1' and a zoom level of 100%.

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



Repository

ฟอรัม RapidMiner สำหรับชาวไทย

สวัสดีครับ ผมเอกสิทธิ์เป็นผู้นำกลุ่ม ฟอรัม RapidMiner สำหรับชาวไทย ผมขอเชิญคุณเข้าร่วมกลุ่มเพื่อแลกเปลี่ยนไอเดียหรือถามคำถามต่างๆ ใน community ได้เลยครับ

[ไปที่นี่](#)

Row No.	NAMA	B.IND	B.JING
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	WAIWAN	9	8.120
10	MAHMUD	9.810	9.580

ExampleSet (10 examples, 1 special attribute, 2 regular attributes)

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

Repository

Import Data

Local Repository (LABSI-20)

data (LABSI-20)

processes (LABSI-20)

Data_NilaiUjian (LABSI-20)

Operators

svd

Cleansing (1)

Dimensionality Reduction

Singular Value Decomposition

Process

Retrieve Data_NilaiUjian...

Clustering

SVD

Parameters

SVD (Singular Value Decomposition)

dimensionality reduction: fixed number

dimensions: 1

Show advanced parameters

Change compatibility (9.3.001)

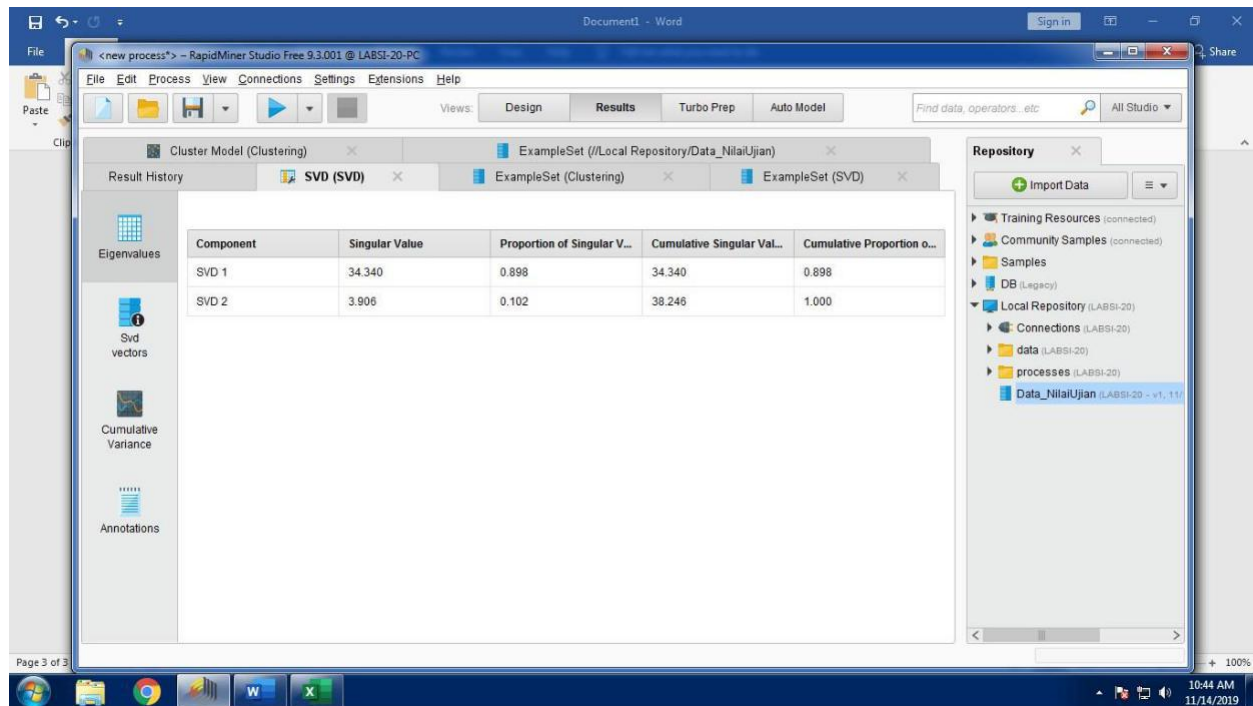
Help

Singular Value Decomposition

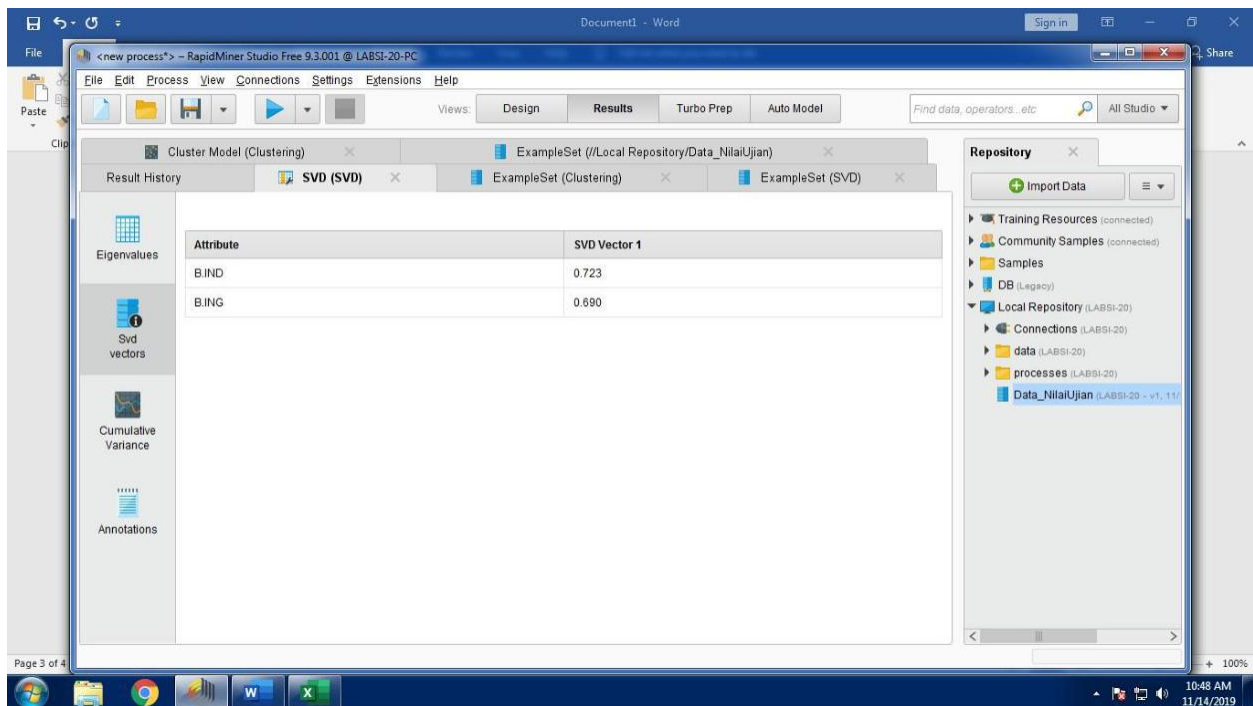
RapidMiner Studio Core

Tags: PCA, Components, Orthogonal, Eigenvalues, Decompositions, Reduction, Multicollinearity, SVD, Dimensionality Reduction

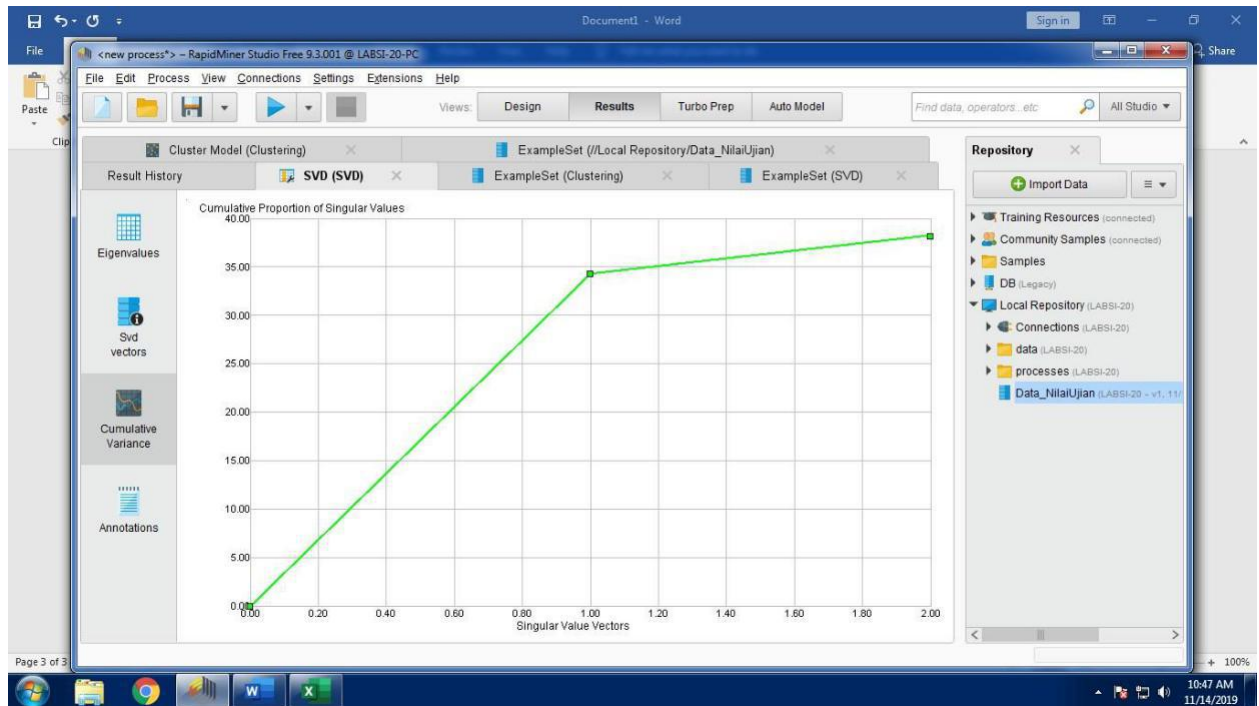
Nilai Eigenvalue



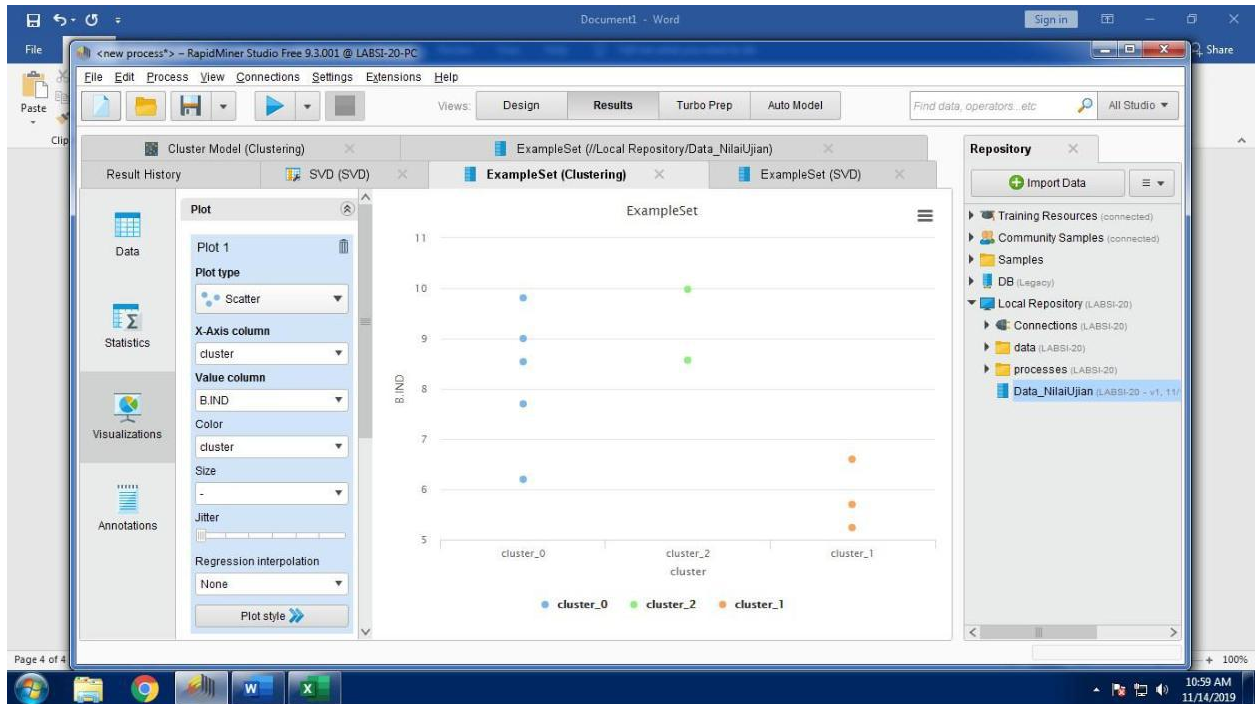
Nilai Svd vectors



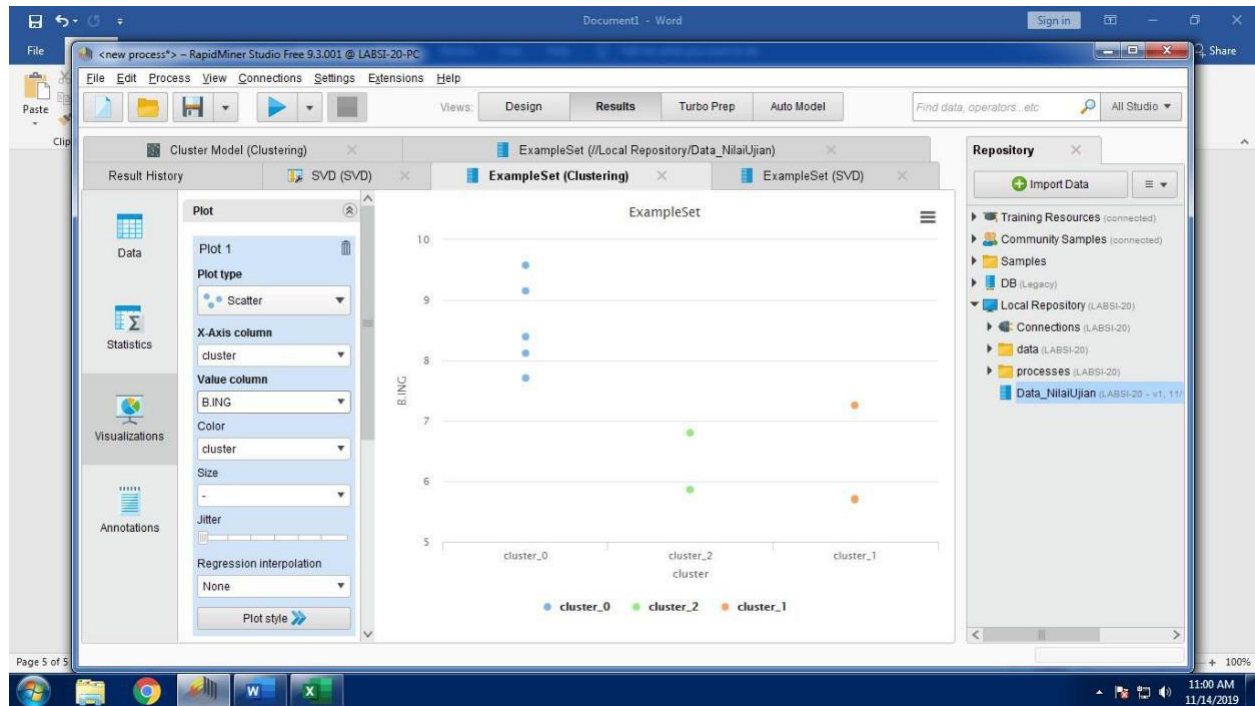
Nilai Cumulative Variance



- Kelompok siswa bidang B.indonesia



Kelompok siswa bidang B.inggris

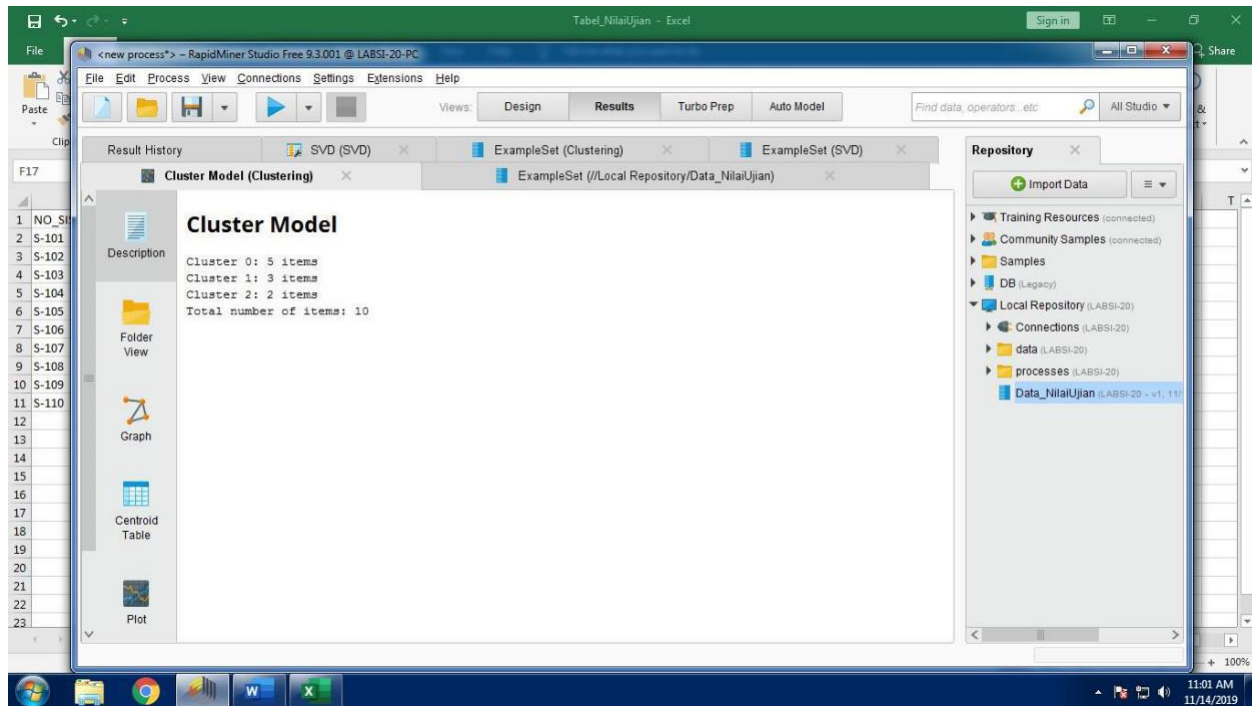


-
- Kelompok masing-masing siswa yang dikelompokkan berdasarkan cluster 0, cluster 1, cluster 2.

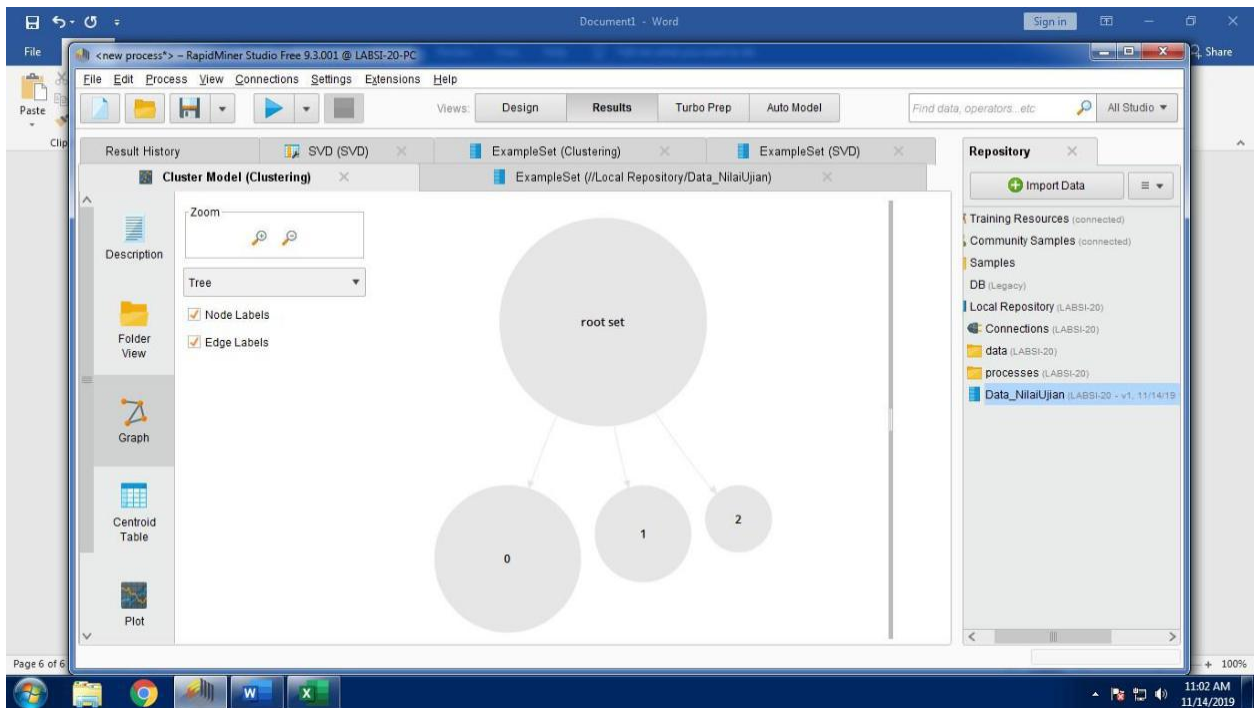
Row No.	NAMA	cluster ↑	B.INDO	B.ING
1	JOKO	cluster_0	8.540	8.400
3	SUSI	cluster_0	6.200	9.150
7	EKO	cluster_0	7.700	7.710
9	WAWAN	cluster_0	9	8.120
10	MAHMUD	cluster_0	9.810	9.580
4	DYAH	cluster_1	5.240	7.260
5	WATI	cluster_1	5.700	5.710
8	YANTO	cluster_1	6.600	5.700
2	AGUS	cluster_2	9.980	6.810
6	IKA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

-

Description



-
- Graph



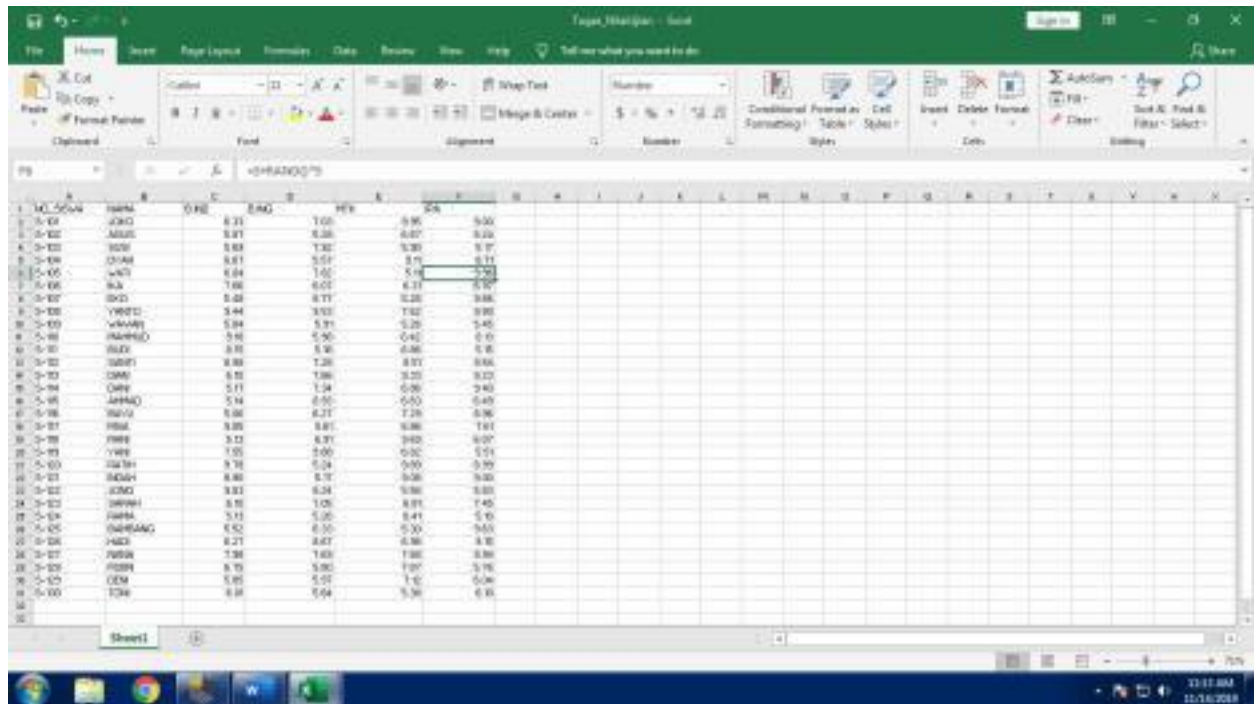
Kesimpulan :

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.Ingggris

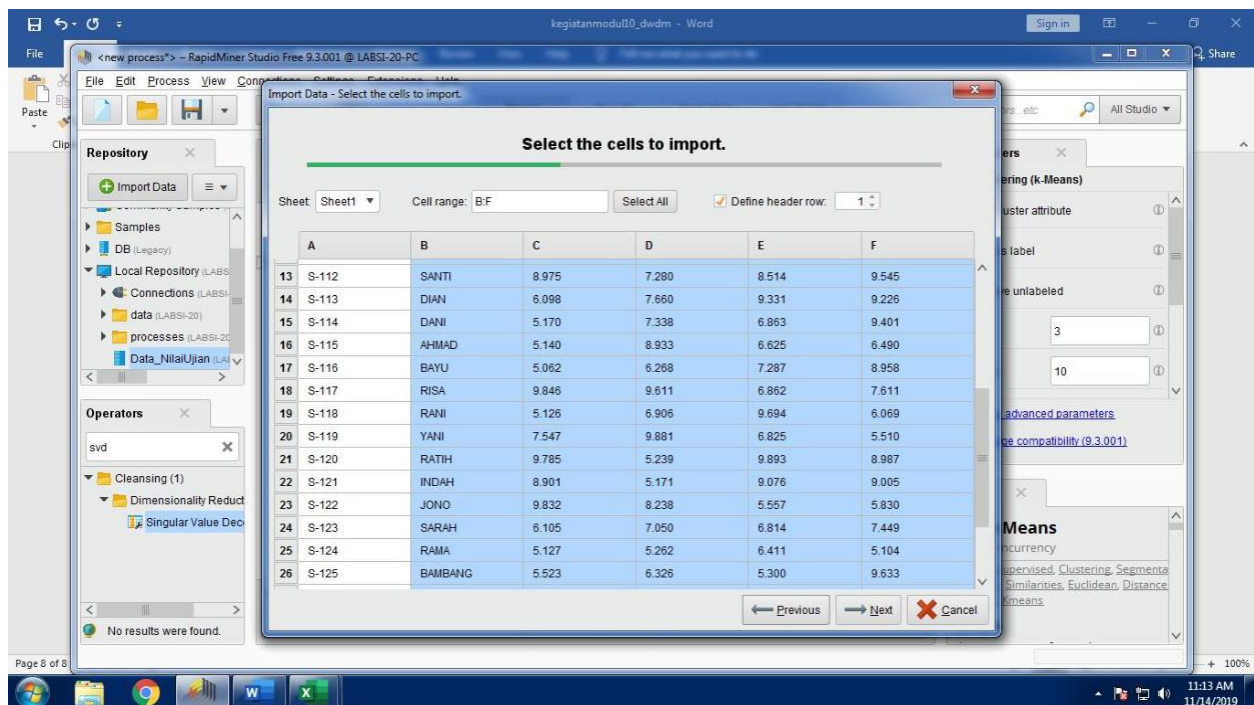
Tugas

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



NO	NO	NAMA	ONE	TWO	THREE	FOUR	FIVE
1	S-101	SANTI	8.33	7.00	8.95	9.50	9.50
2	S-102	DIAN	8.97	6.09	8.07	9.22	9.22
3	S-103	DANI	5.17	7.33	6.83	9.40	9.40
4	S-104	AHMAD	5.14	8.93	6.62	6.49	6.49
5	S-105	BAYU	5.06	6.26	7.28	8.95	8.95
6	S-106	RISA	9.84	9.61	6.86	7.61	7.61
7	S-107	RANI	5.12	6.90	9.64	6.09	6.09
8	S-108	YANI	7.54	9.81	6.82	5.51	5.51
9	S-109	RATIH	9.78	5.23	9.89	8.98	8.98
10	S-110	INDAH	8.91	5.17	9.07	9.00	9.00
11	S-111	JONO	9.32	8.23	5.57	5.83	5.83
12	S-112	SARAH	6.10	7.05	6.84	7.44	7.44
13	S-113	RAMA	5.12	5.26	6.41	5.10	5.10
14	S-114	BAMBANG	5.52	6.32	5.30	9.63	9.63

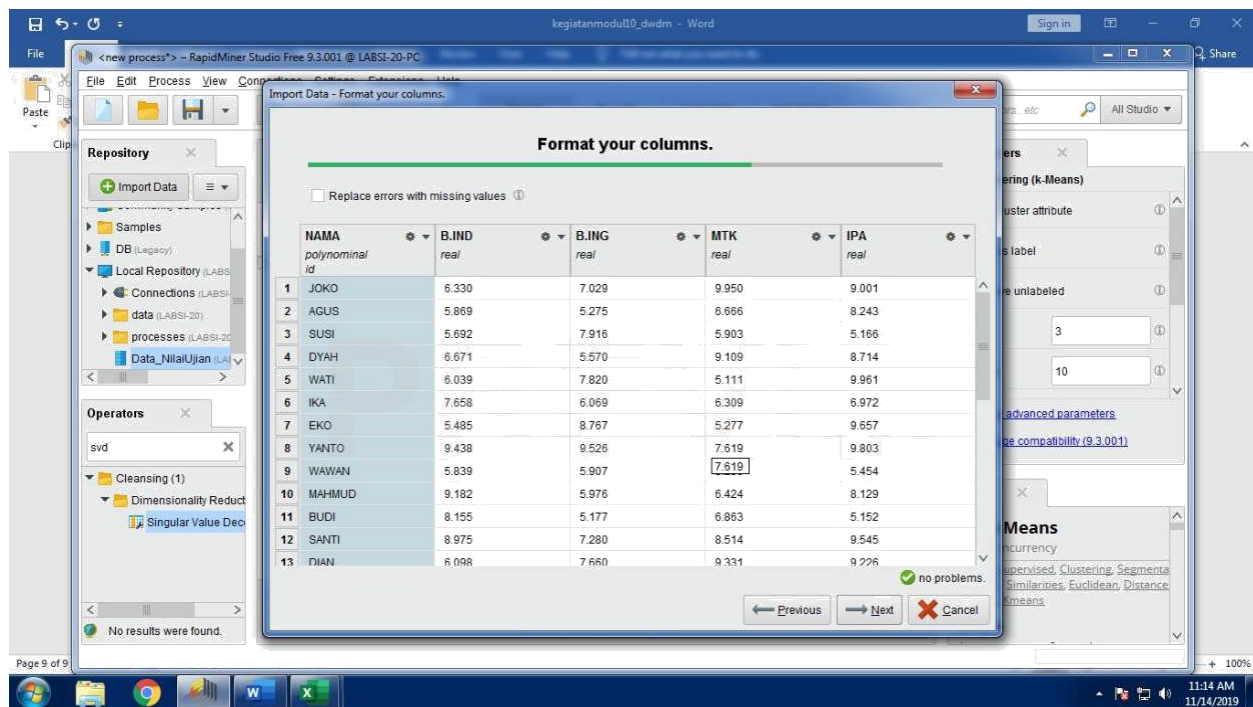
- Gunakan file Tugas_NilaiUjian.xlsx sebagai data yang akan digunakan dalam proses Clustering. Lalu import ke dalam aplikasi RapidMiner.



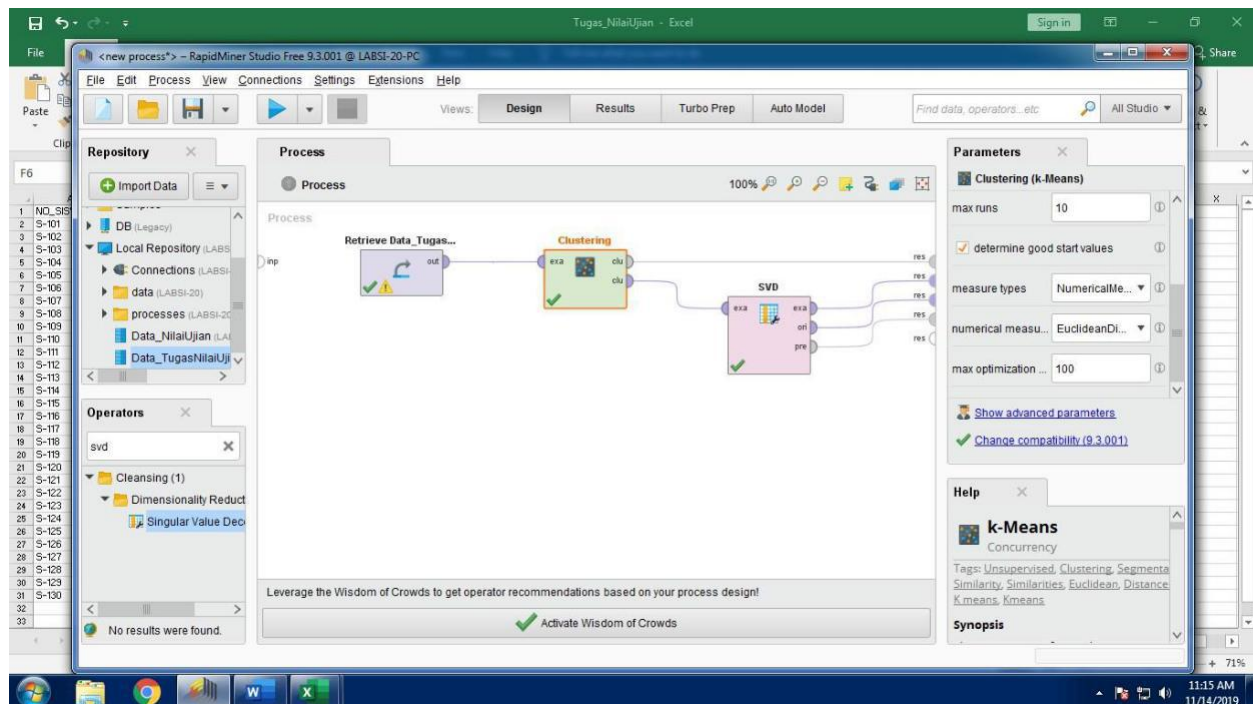
Import Data - Select the cells to import.

Sheet: Sheet1 Cell range: B:F Select All Define header row: 1

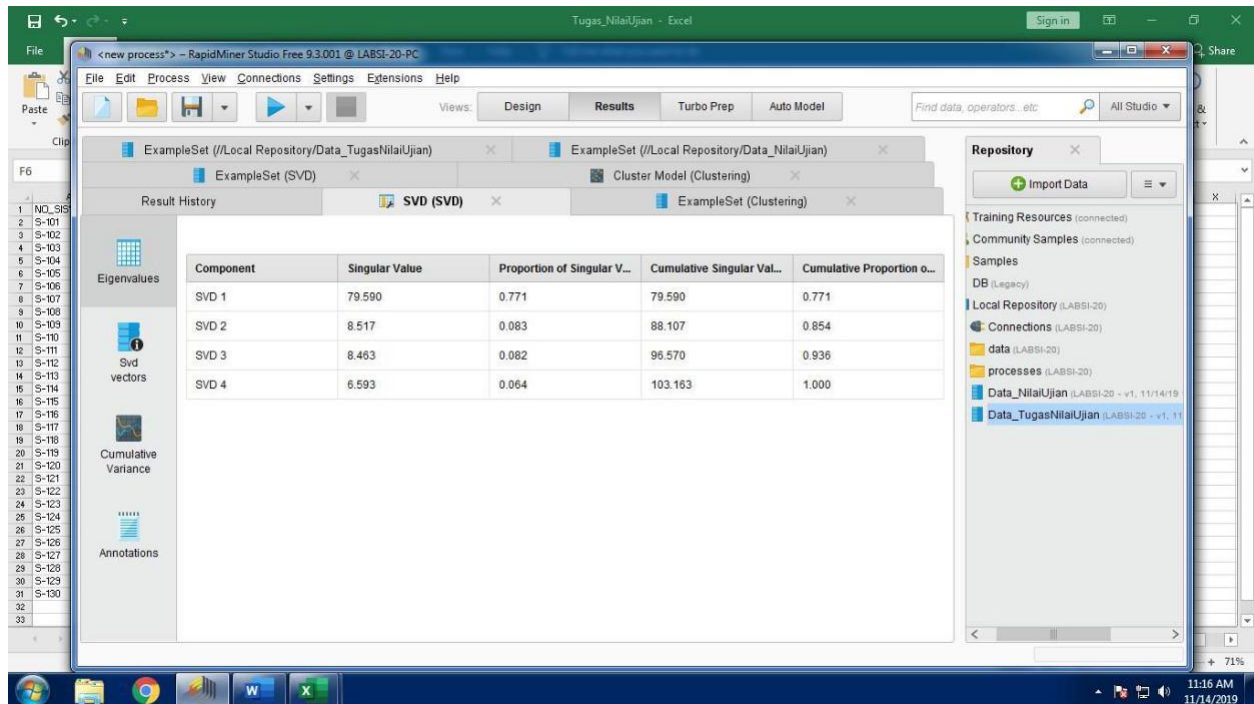
	A	B	C	D	E	F
13	S-112	SANTI	8.975	7.280	8.514	9.545
14	S-113	DIAN	6.098	7.660	9.331	9.226
15	S-114	DANI	5.170	7.338	6.863	9.401
16	S-115	AHMAD	5.140	8.933	6.625	6.490
17	S-116	BAYU	5.062	6.268	7.287	8.958
18	S-117	RISA	9.846	9.611	6.862	7.611
19	S-118	RANI	5.126	6.906	9.694	6.069
20	S-119	YANI	7.547	9.881	6.825	5.510
21	S-120	RATIH	9.785	5.239	9.893	8.987
22	S-121	INDAH	8.901	5.171	9.076	9.005
23	S-122	JONO	9.832	8.238	5.557	5.830
24	S-123	SARAH	6.105	7.050	6.814	7.449
25	S-124	RAMA	5.127	5.262	6.411	5.104
26	S-125	BAMBANG	5.523	6.326	5.300	9.633



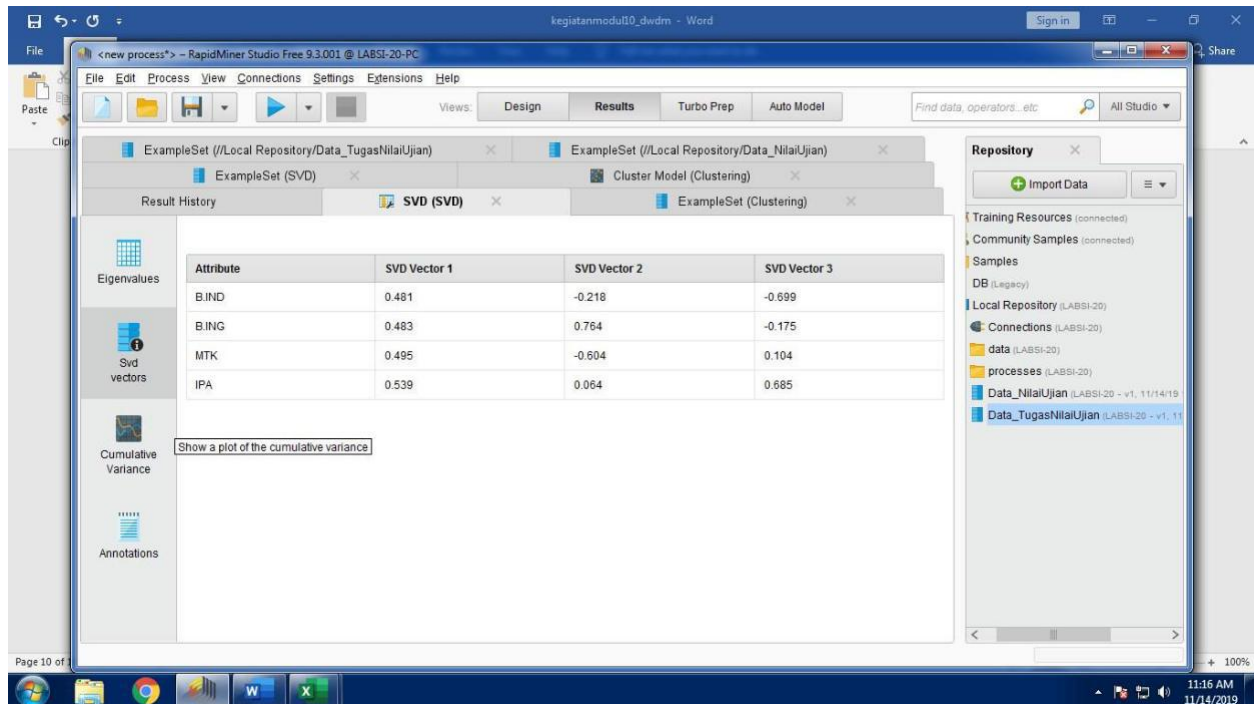
- Tambahkan operator k-Means. Lalu Jalankan dengan menekan tombol run (F11)



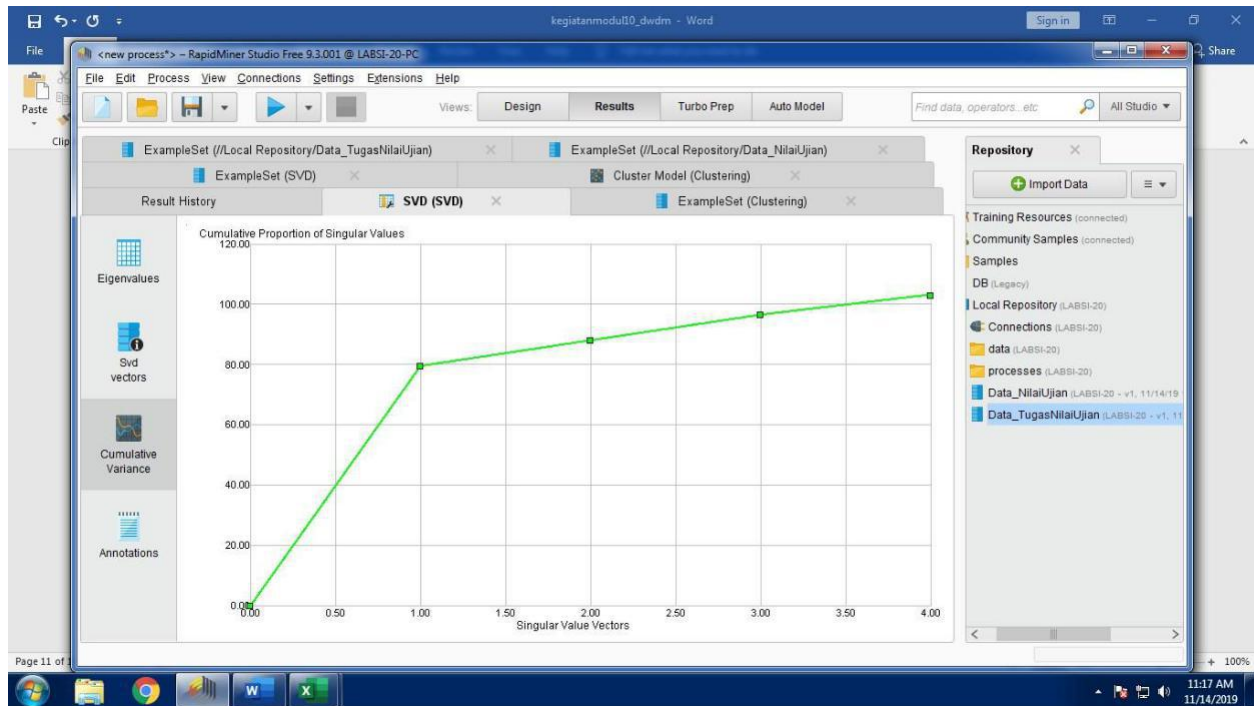
Nilai Eigenvalue



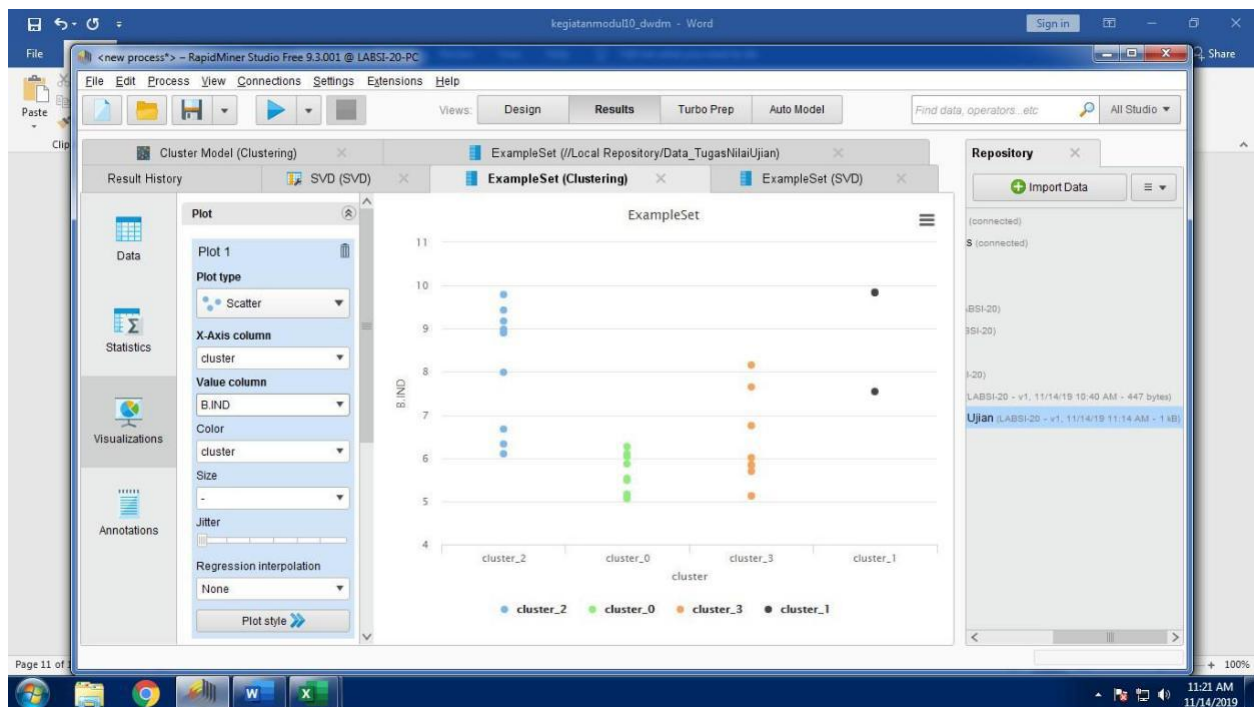
Nilai Svd Vectors



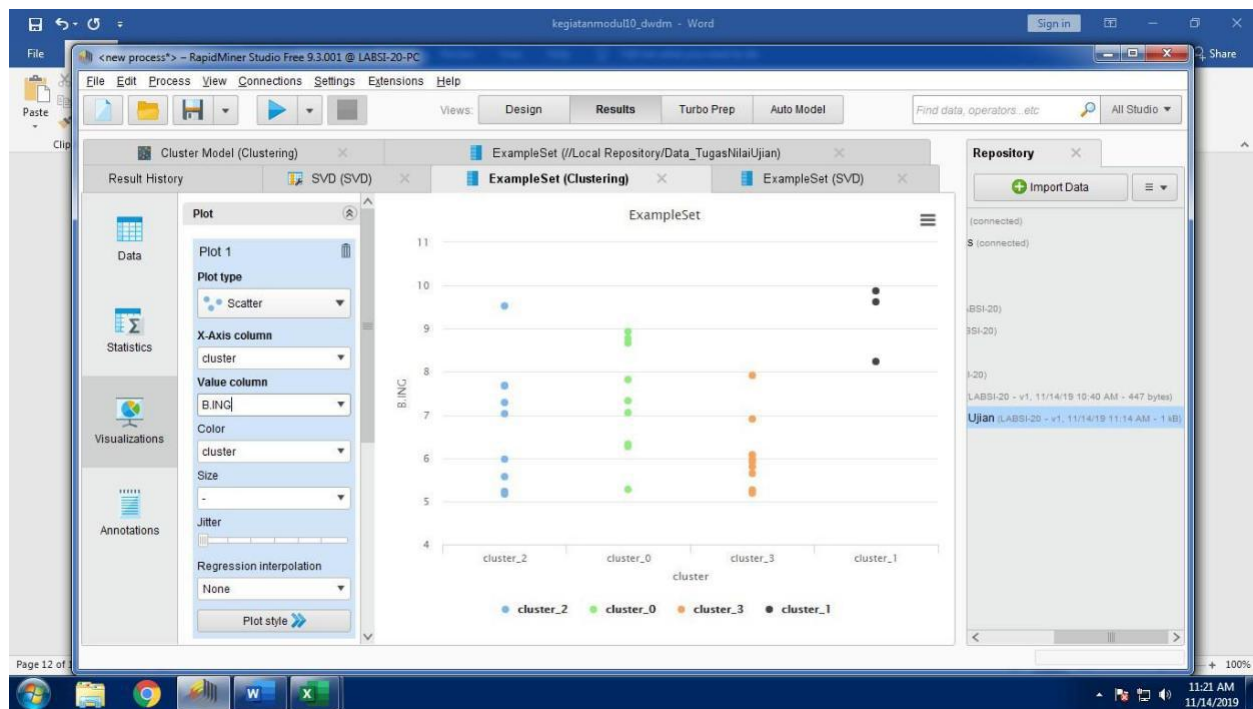
Nilai Cumulative Variance



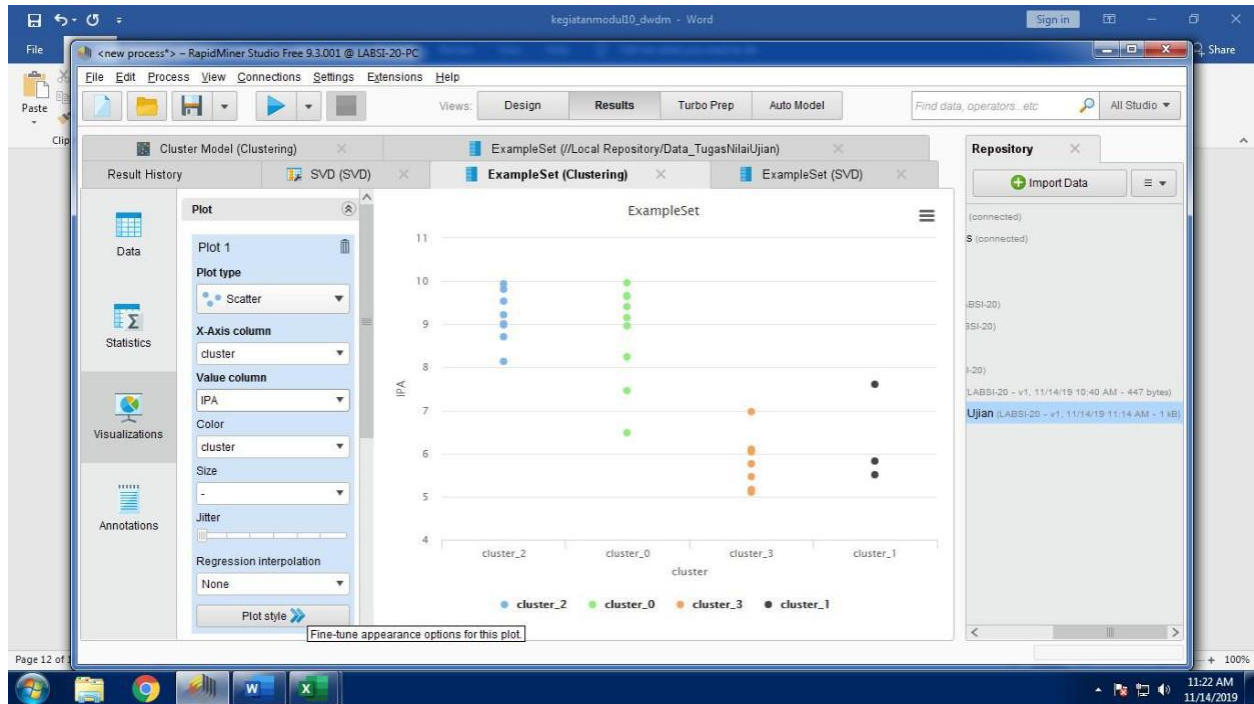
Kelompok siswa bidang B.INDO



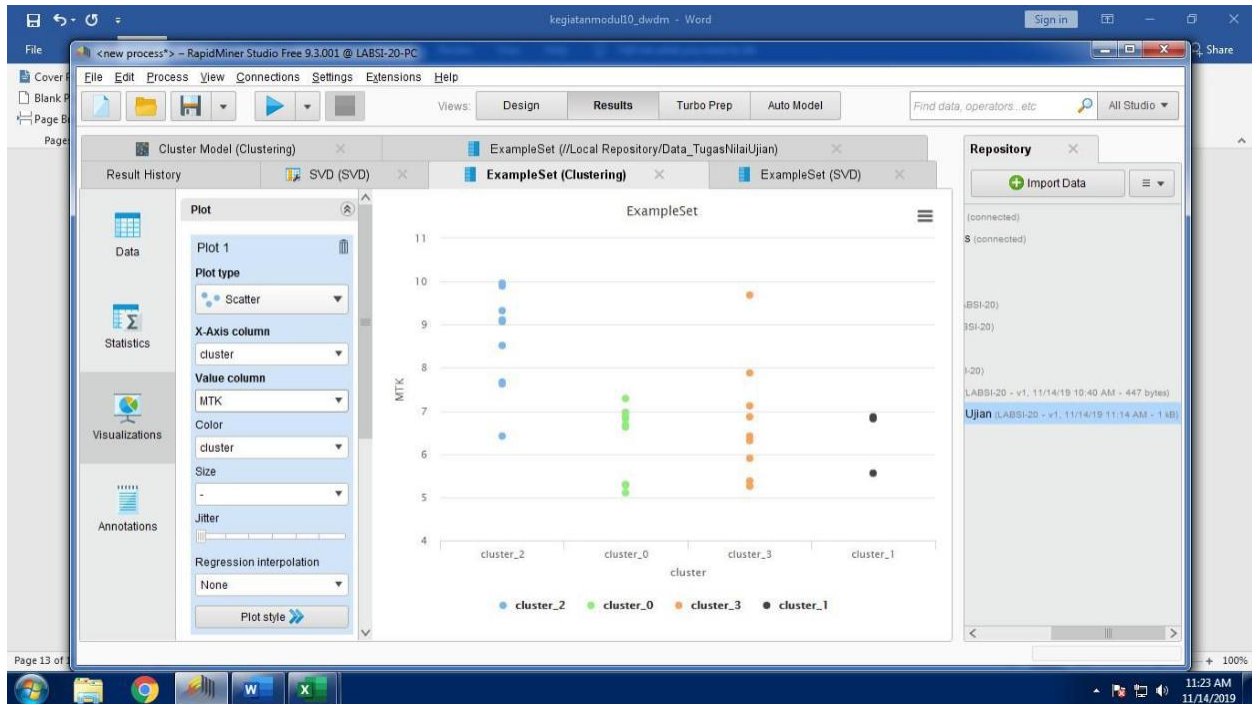
- Kelompok siswa kelompok B.ING



- Kelompok siswa bidang IPA



- Kelompok siswa bidang MTK



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

Cluster Model (Clustering) ExampleSet (/Local Repository/Data_TugasNilaiUjian)

Result History SVD (SVD) ExampleSet (Clustering) ExampleSet (SVD)

Open in Turbo Prep Auto Model Filter (30 / 30 examples): all

Row No.	NAMA	cluster	B.IND	B.ING	MTK	IPA
2	AGUS	cluster_0	5.869	5.275	6.666	8.243
5	WATI	cluster_0	6.039	7.820	5.111	9.961
7	EKO	cluster_0	5.485	8.767	5.277	9.657
14	DANI	cluster_0	5.170	7.338	6.863	9.401
15	AHMAD	cluster_0	5.140	8.933	6.625	6.490
16	BAYU	cluster_0	5.062	6.268	7.287	8.958
23	SARAH	cluster_0	6.105	7.050	6.814	7.449
25	BAMBANG	cluster_0	5.523	6.326	5.300	9.633
26	HADI	cluster_0	6.266	8.670	6.977	9.151
17	RISA	cluster_1	9.846	9.611	6.862	7.611
19	YANI	cluster_1	7.547	9.881	6.825	5.510
22	JONO	cluster_1	9.832	8.238	5.557	5.830

ExampleSet (30 examples, 2 special attributes, 4 regular attributes)

Cluster Model (Clustering) ExampleSet (/Local Repository/Data_TugasNilaiUjian)

Result History SVD (SVD) ExampleSet (Clustering) ExampleSet (SVD)

Open in Turbo Prep Auto Model Filter (30 / 30 examples): all

Row No.	NAMA	cluster	B.IND	B.ING	MTK	IPA
22	JONO	cluster_1	9.832	8.238	5.557	5.830
1	JOKO	cluster_2	6.330	7.029	9.950	9.001
4	DYAH	cluster_2	6.671	5.570	9.109	8.714
8	YANTO	cluster_2	9.438	9.526	7.619	9.803
10	MAHMUD	cluster_2	9.182	5.976	6.424	8.129
12	SANTI	cluster_2	8.975	7.280	8.514	9.545
13	DIAN	cluster_2	6.098	7.660	9.331	9.226
20	RATIH	cluster_2	9.785	5.239	9.893	8.987
21	INDAH	cluster_2	8.901	5.171	9.076	9.005
27	NANA	cluster_2	7.979	7.688	7.679	9.945
3	SUSI	cluster_3	5.692	7.916	5.903	5.166
6	IKA	cluster_3	7.658	6.069	6.309	6.972

ExampleSet (30 examples, 2 special attributes, 4 regular attributes)

kegiatanmodul10_dwdrn - Word

Sign in

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Cluster Model (Clustering) ExampleSet (/Local Repository/Data_TugasNilaiUjian)

Result History SVD (SVD) ExampleSet (Clustering) ExampleSet (SVD)

Open in Turbo Prep Auto Model Filter (30 / 30 examples): all

Row No.	NAMA	cluster ↑	B.IND	B.JING	MTK	IPA
20	RATIH	cluster_2	9.785	5.239	9.893	8.987
21	INDAH	cluster_2	8.901	5.171	9.076	9.005
27	NANA	cluster_2	7.979	7.688	7.679	9.945
3	SUSI	cluster_3	5.692	7.916	5.903	5.166
6	IKA	cluster_3	7.658	6.069	6.309	6.972
9	WAWAN	cluster_3	5.839	5.907	5.256	5.454
11	BUDI	cluster_3	8.155	5.177	6.863	5.152
18	RAINI	cluster_3	5.126	6.906	9.694	6.069
24	RAJMA	cluster_3	5.127	5.262	6.411	5.104
28	FEBRI	cluster_3	6.754	5.798	7.874	5.763
29	DENI	cluster_3	5.846	5.969	7.120	6.037
30	TONI	cluster_3	6.011	5.644	5.378	6.099

ExampleSet (30 examples, 2 special attributes, 4 regular attributes)

Repository

Import Data

(connected)

S (connected)

(BSI-20)

(SI-20)

(-20)

LABSI-20 - v1, 11/14/19 10:40 AM - 447 bytes

Ujian (LABSI-20 - v1, 11/14/19 11:14 AM - 1 KB)

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11:24 AM 11/14/2019

- Description

kegiatanmodul10_dwdrn - Word

Sign in

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Cluster Model (Clustering) ExampleSet (/Local Repository/Data_TugasNilaiUjian)

Result History SVD (SVD) ExampleSet (Clustering) ExampleSet (SVD)

Cluster Model

Description

Cluster 0: 9 items
Cluster 1: 3 items
Cluster 2: 9 items
Cluster 3: 9 items
Total number of items: 30

Folder View

Graph

Centroid Table

Plot

Repository

Import Data

(connected)

S (connected)

(BSI-20)

(SI-20)

(-20)

LABSI-20 - v1, 11/14/19 10:40 AM - 447 bytes

Ujian (LABSI-20 - v1, 11/14/19 11:14 AM - 1 KB)

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11:19 AM 11/14/2019

- Graph

