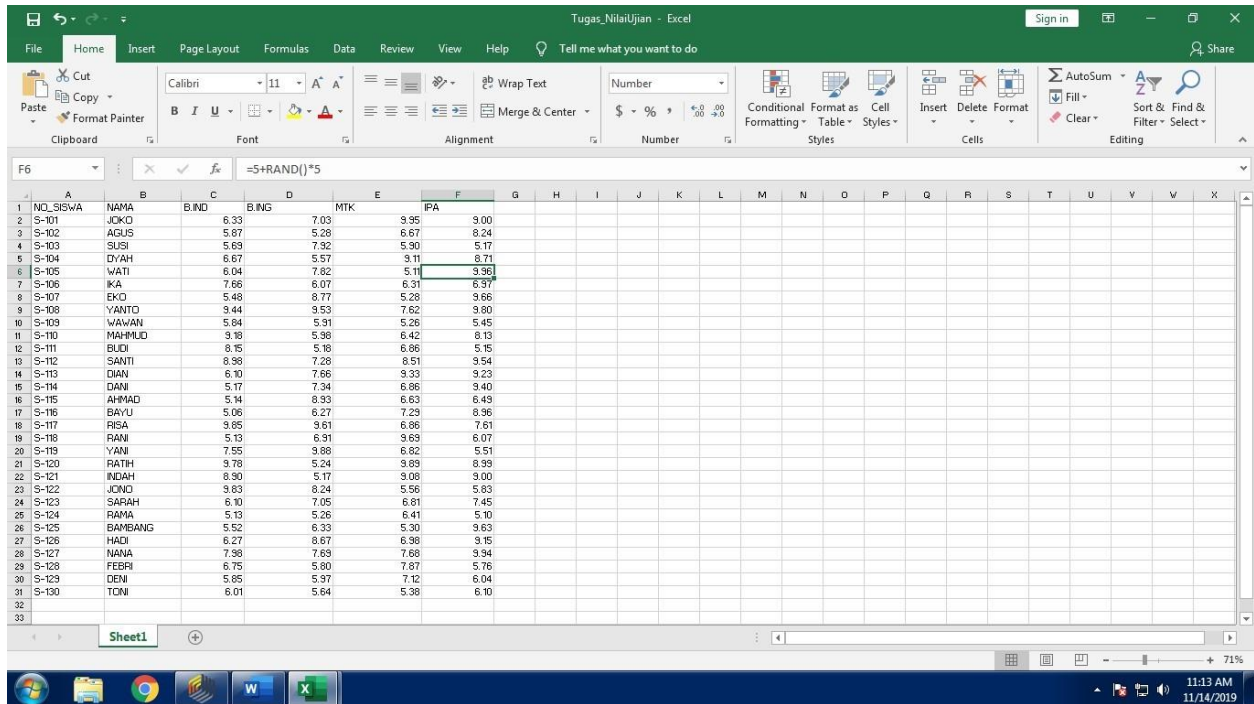


Nama : Muhammad Khoiruddin

NIM : L2000170104

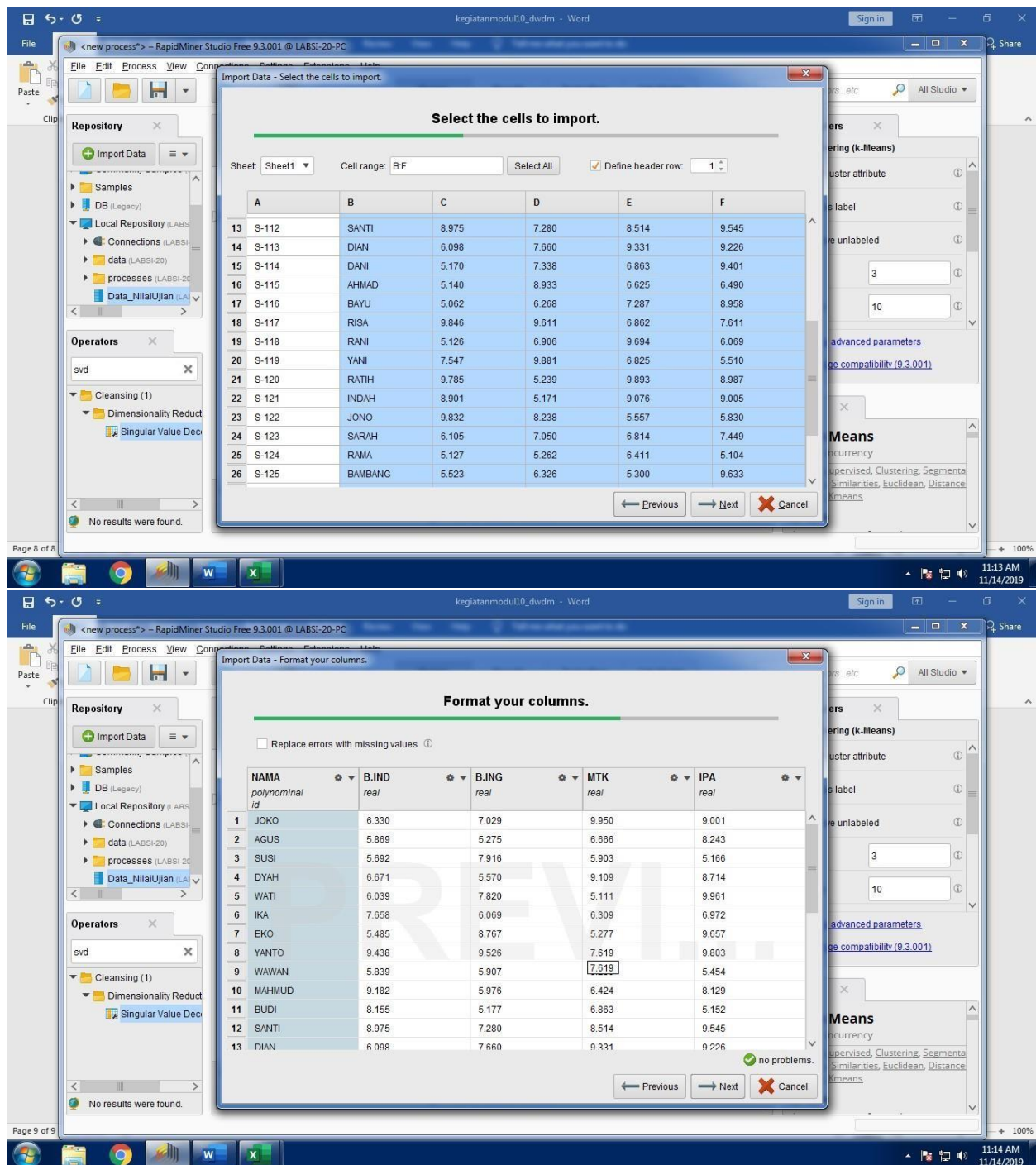
Tugas

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



ID	NAMA	B.IND	B.ING	MTK	IPA
S-101	JOKO	6.33	7.03	3.95	9.00
S-102	AGUS	5.87	5.28	6.67	8.24
S-103	SUSI	5.69	7.92	5.90	5.17
S-104	DYAH	6.67	5.57	3.11	8.71
S-105	WATI	6.04	7.82	5.11	9.36
S-106	IKA	7.66	6.07	6.31	6.37
S-107	EKO	5.48	8.77	5.28	9.66
S-108	YANTO	9.44	9.53	7.62	9.80
S-109	WAWAN	5.84	5.91	5.26	5.45
S-110	MAHMUD	3.18	5.98	6.42	8.13
S-111	BUDI	8.15	5.18	6.86	5.15
S-112	SANTI	8.98	7.28	6.51	9.54
S-113	DIAN	6.10	7.66	3.33	9.23
S-114	DANI	5.17	7.34	6.86	9.40
S-115	AHMAD	5.14	8.33	6.63	6.49
S-116	BAYU	5.06	6.27	7.29	8.96
S-117	RISA	9.85	9.61	6.86	7.61
S-118	RANI	5.13	6.91	3.69	6.07
S-119	YANI	7.55	9.88	6.82	5.51
S-120	RATH	9.78	5.24	3.69	8.99
S-121	INDAH	8.30	5.17	9.08	9.00
S-122	JONO	9.83	8.24	5.56	5.83
S-123	SARAH	6.10	7.05	6.81	7.45
S-124	RAMA	5.13	5.26	6.41	5.10
S-125	BAMBANG	5.52	6.33	5.30	9.63
S-126	HADI	6.27	8.67	6.30	3.15
S-127	NANA	7.98	7.63	7.68	9.94
S-128	FEBRI	6.75	5.80	7.87	5.76
S-129	DENI	5.85	5.97	7.12	6.04
S-130	TONI	6.01	5.64	5.38	6.10

- Gunakan file Tugas_NilaiUjian.xlsx 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)

Tugas_NilaiUjian - Excel

Sign in

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Repository

Import Data

DB (Legacy)

Local Repository (LABSI-20)

Connections (LABSI-20)

data (LABSI-20)

processes (LABSI-20)

Data_NilaiUjian (LABSI-20)

Data_TugasNilaiUji (LABSI-20)

Operators

svd

Cleansing (1)

Dimensionality Reduction

Singular Value Decomposition

Process

Process

100%

Retrieve Data_Tugas...

Clustering

SVD

Parameters

Clustering (k-Means)

max runs 10

determine good start values

measure types NumericalMe...

numerical measu... EuclideanDi...

max optimization ... 100

Show advanced parameters

Change compatibility (9.3.001)

Help

k-Means

Concurrency

Tags: Unsupervised, Clustering, Segmenta...

Similarity, Similarities, Euclidean, Distance...

K means, Kmeans

Synopsis

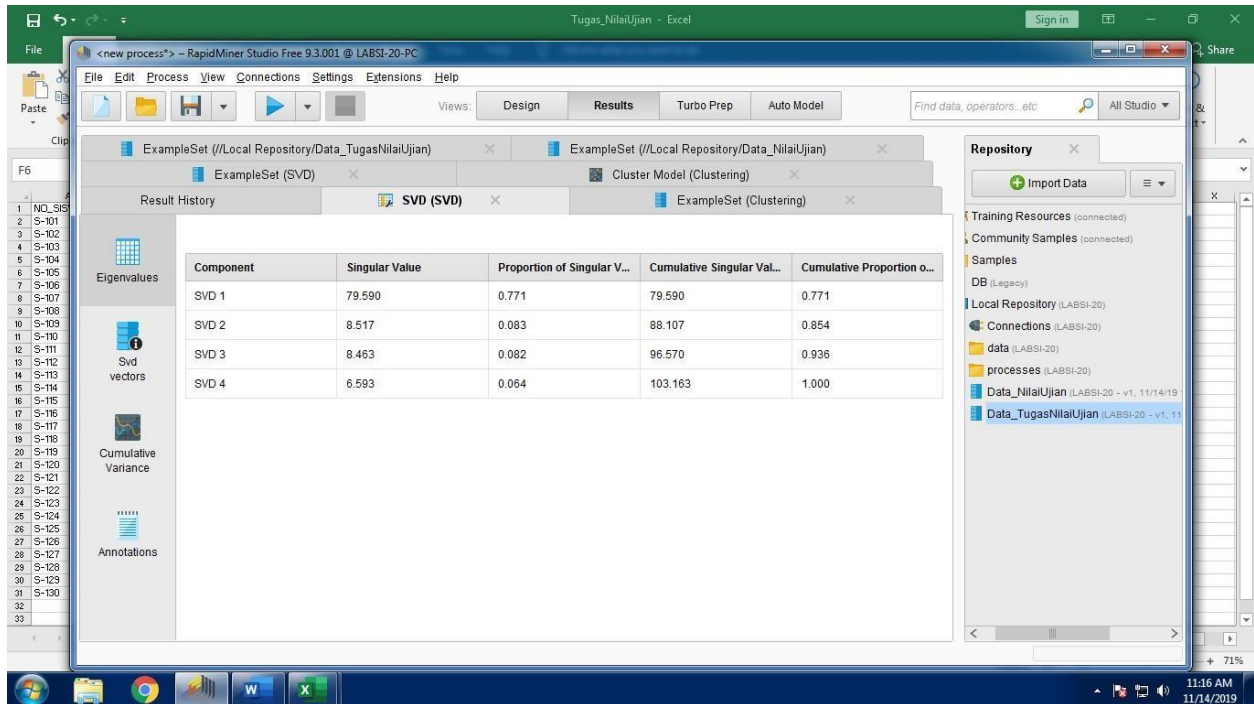
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!

Activate Wisdom of Crowds

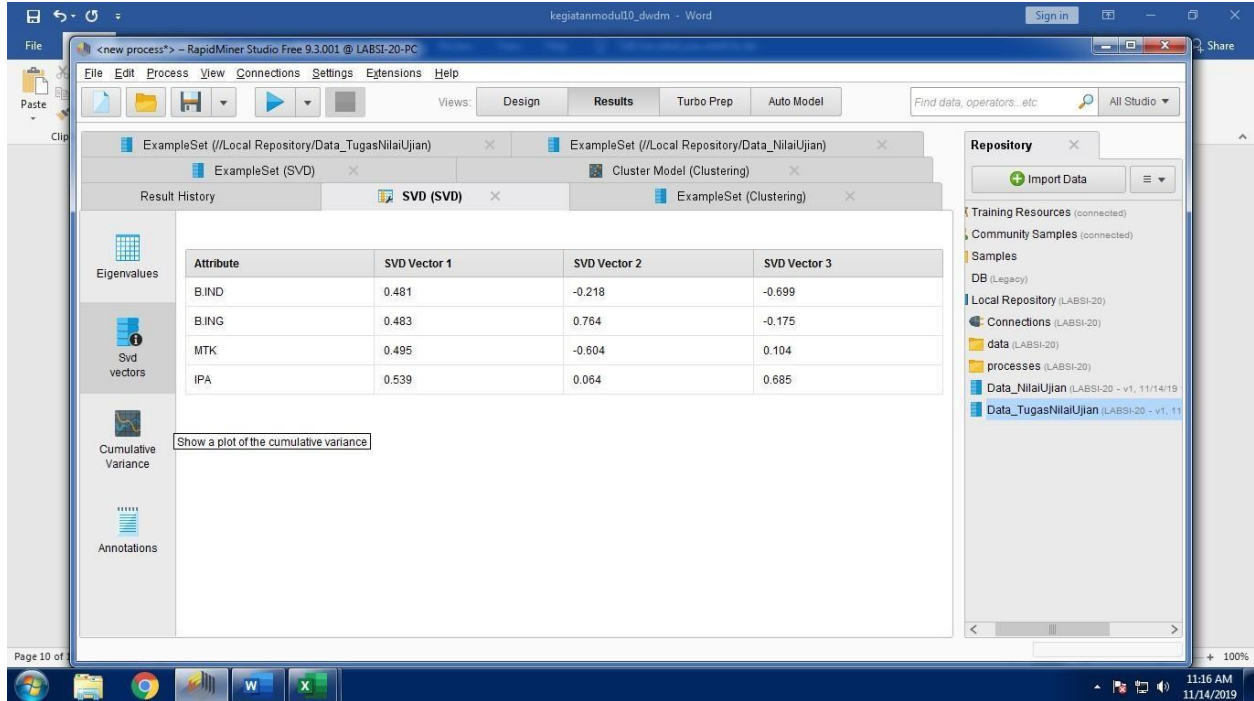
No results were found.

11:15 AM 11/14/2019

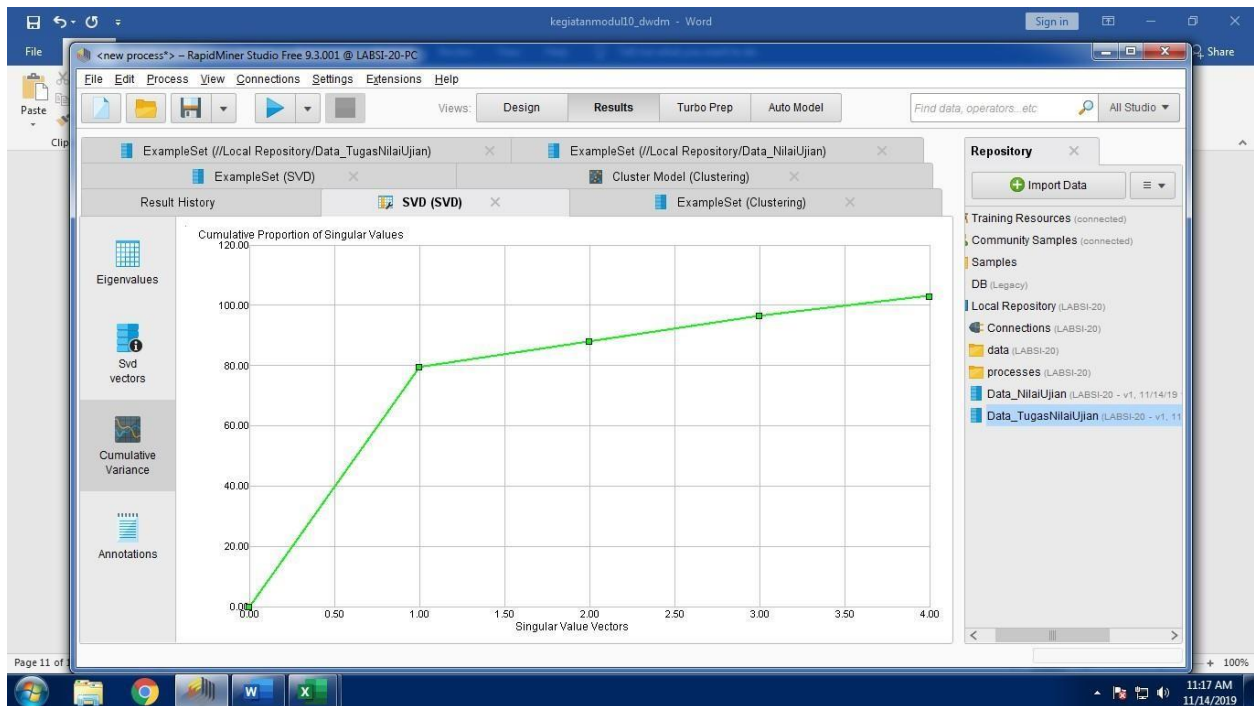
Nilai Eigenvalue



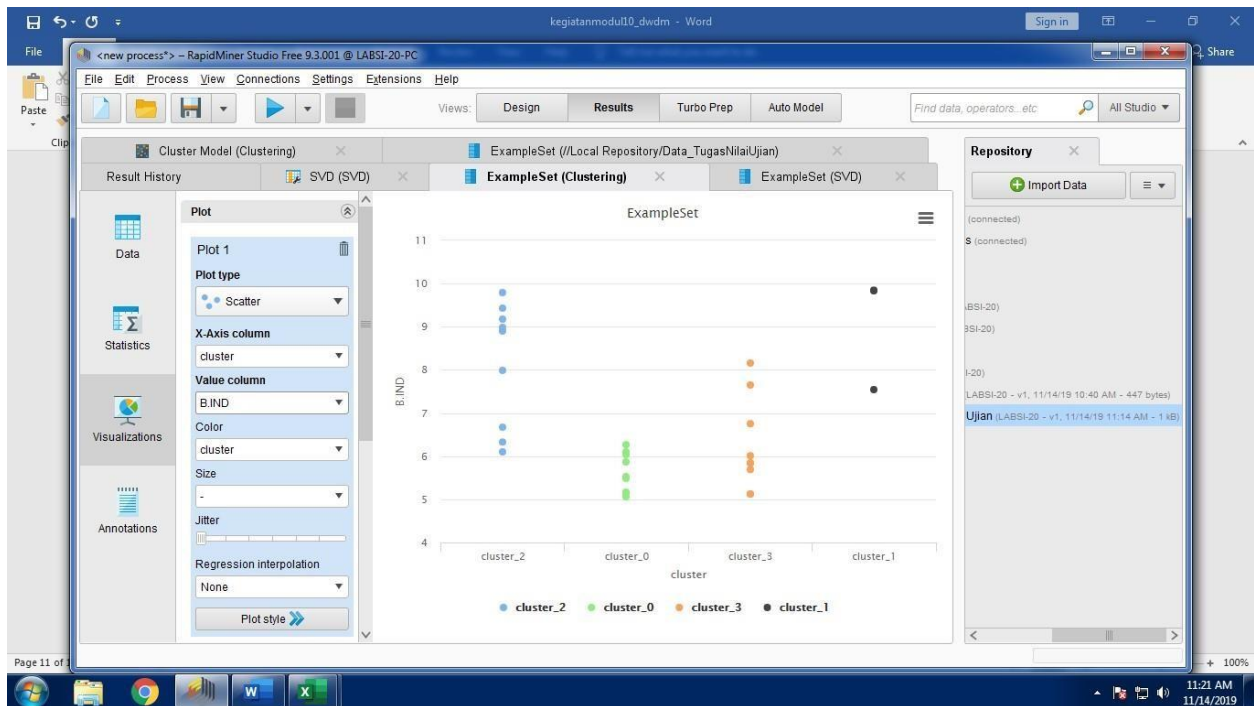
Nilai Svd Vectors



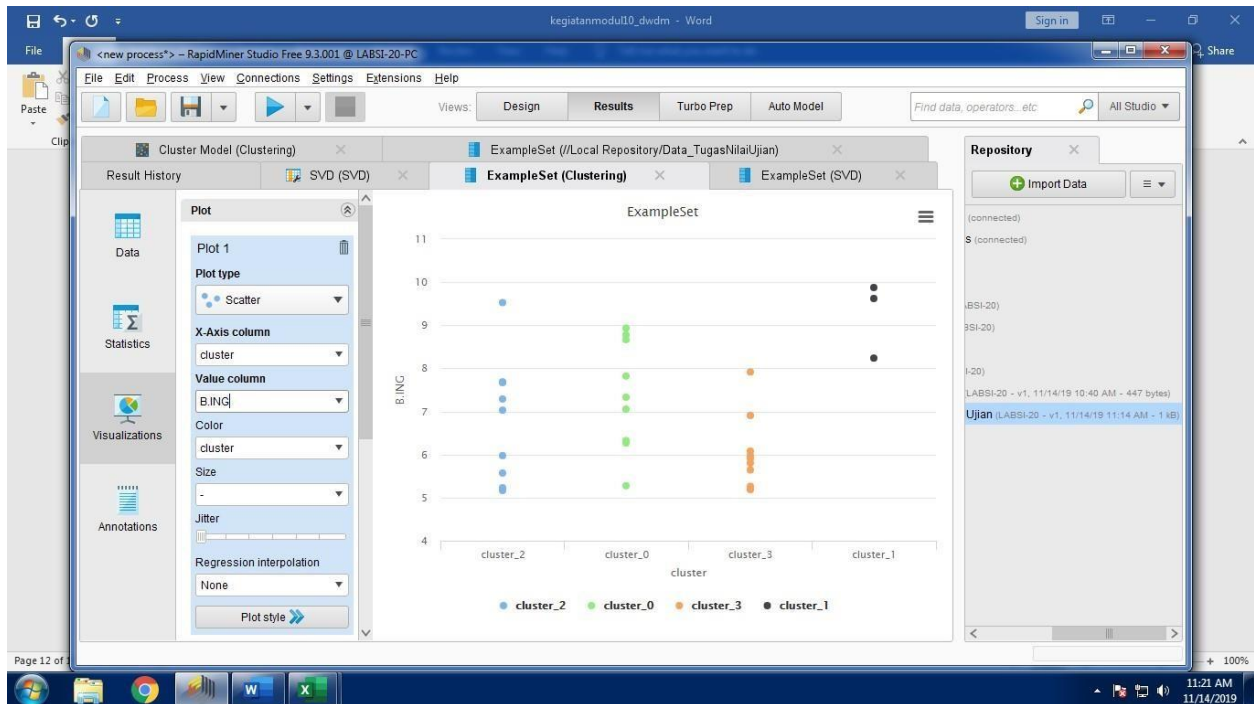
Nilai Cumulative Variance



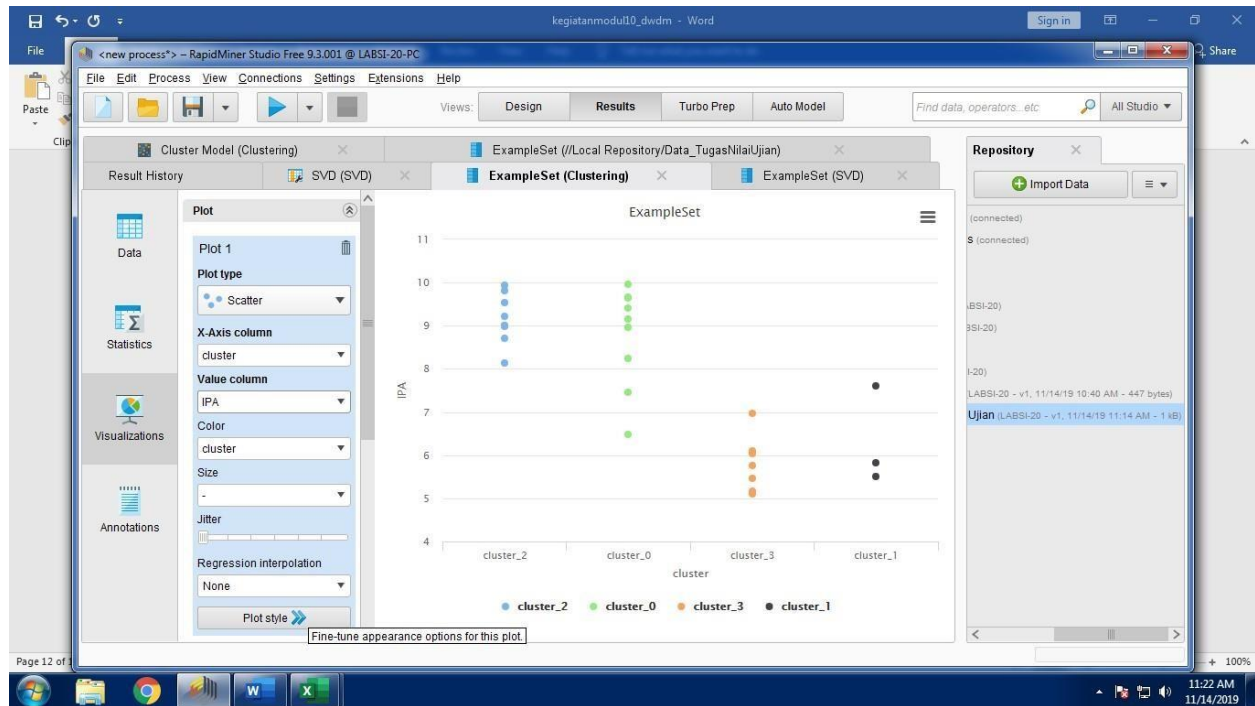
Kelompok siswa bidang B.INDO



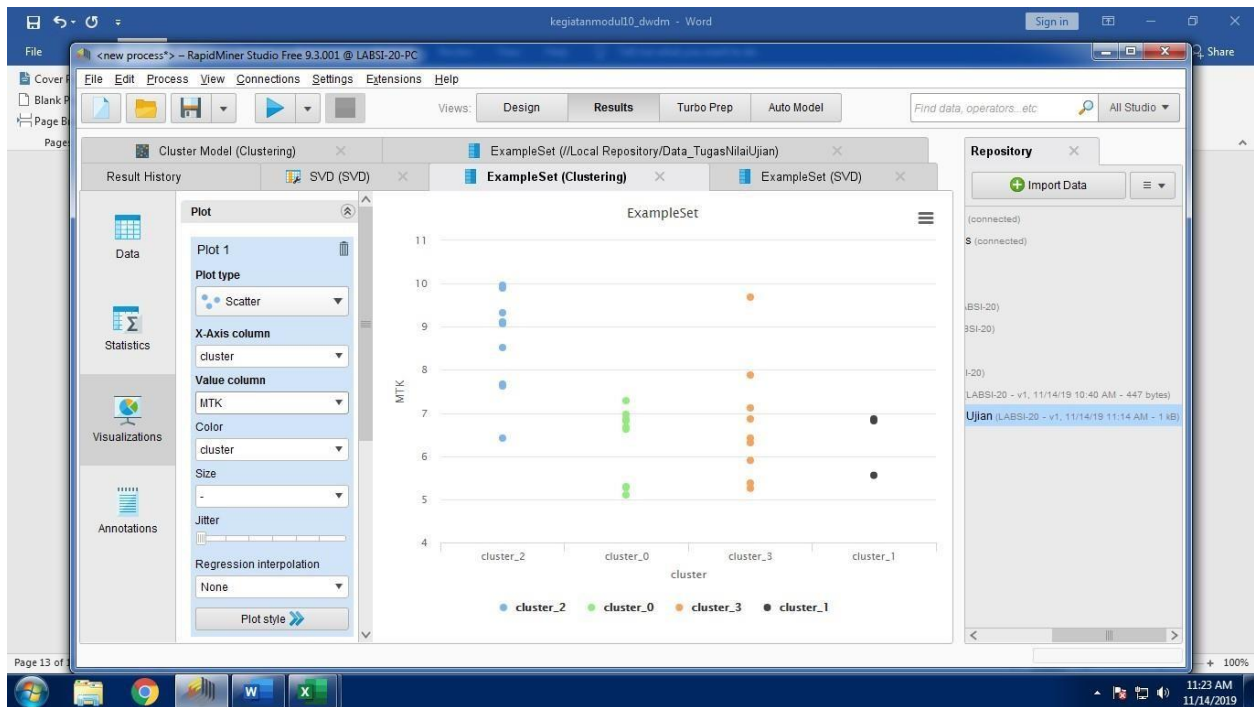
-
- Kelompok siswa kelompok B.ING



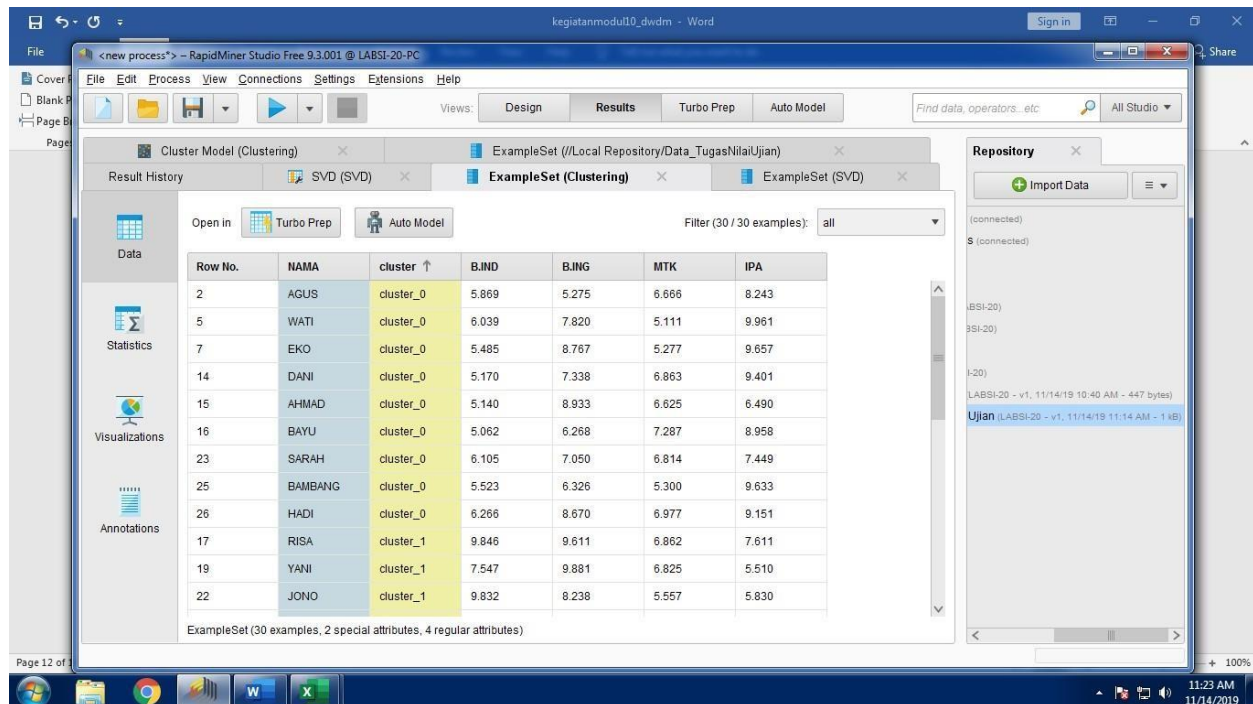
- Kelompok siswa bidang IPA



- Kelompok siswa bidang MTK



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



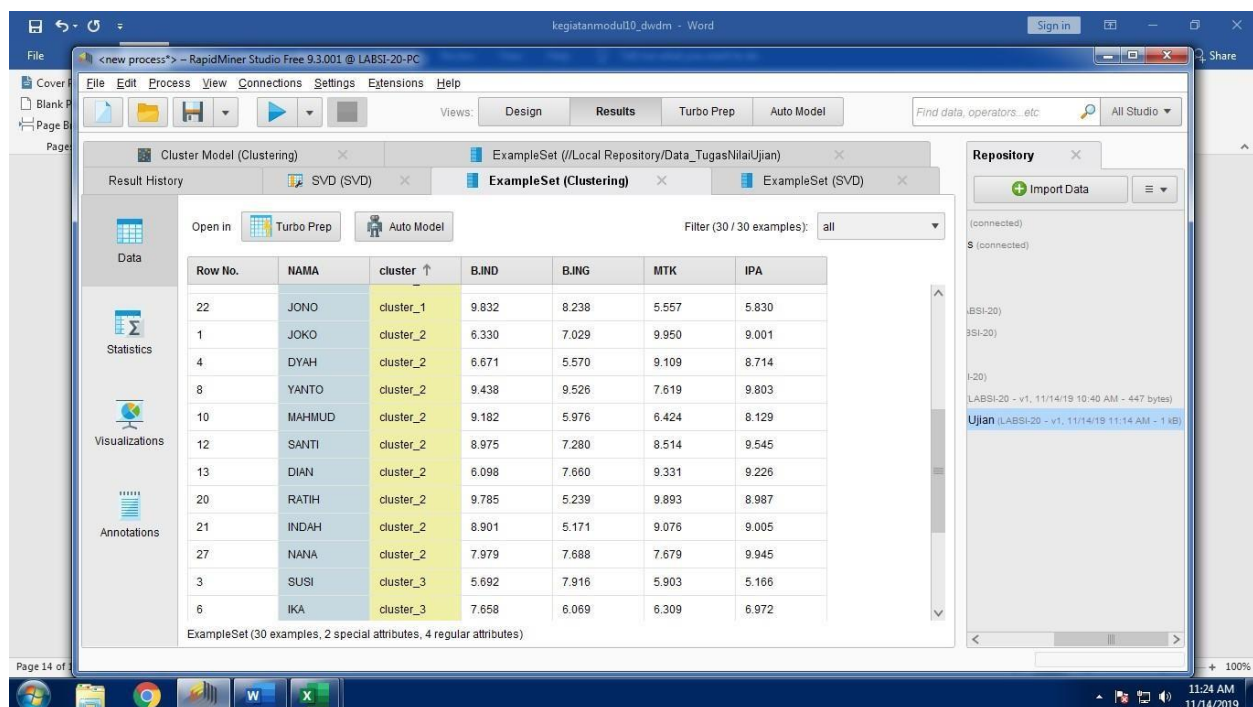
Cluster Model (Clustering) x ExampleSet (/Local Repository/Data_TugasNilaiUjian) x ExampleSet (SVD) x

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
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) x ExampleSet (/Local Repository/Data_TugasNilaiUjian) x ExampleSet (SVD) x

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
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)

•

The screenshot displays the RapidMiner Studio interface. The main window shows the 'Results' tab for a 'Cluster Model (Clustering)' process. The 'ExampleSet (Clustering)' view is active, displaying a table with 30 examples. The table has columns: Row No., NAMA, cluster, B.IND, B.JING, MTK, and IPA. The 'cluster' column shows three distinct clusters: cluster_2 and cluster_3. The 'Repository' panel on the right shows the data source 'Ujian (LABSI-20 - v1, 11/14/19 11:14 AM - 1 kB)'.

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	RANI	cluster_3	5.126	6.906	9.694	6.069
24	RAMA	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	5.959	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)

• Description

The screenshot displays the RapidMiner Studio interface. The main window shows the 'Results' tab for a 'Cluster Model (Clustering)' process. The 'Description' view is active, displaying the following information:

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

The 'Repository' panel on the right shows the data source 'Ujian (LABSI-20 - v1, 11/14/19 11:14 AM - 1 kB)'.

• Graph

