

Nama : Titis Ulfa Mustikawati

NIM : L200170057

Kelas : C

MODUL 10

TUGAS

The screenshot shows the RapidMiner Studio Free 9.3.001 interface. The 'Import Data - Select the cells to import' dialog box is open, displaying a table with student data. The table has columns: NO_SISWA, NAMA, B.IND, B.ING, MTK, and IPA. The data rows are as follows:

NO_SISWA	NAMA	B.IND	B.ING	MTK	IPA
S-101	JOKO	6.631	9.315	6.214	7.285
S-102	AGUS	6.841	9.901	6.503	9.369
S-103	SUSI	6.744	6.674	6.431	8.455
S-104	DYAH	9.088	9.903	6.991	9.216
S-105	WATI	5.402	7.065	5.697	9.520
S-106	IKA	5.889	6.232	8.661	8.145
S-107	EKO	8.478	8.914	7.184	7.576
S-108	YANTO	7.392	5.987	8.712	6.420
S-109	WAWAN	7.865	5.667	7.434	6.266
S-110	MAHMUD	9.476	9.356	6.762	9.365
S-111	BUDI	5.884	5.931	8.023	8.898
S-112	SANTI	7.201	6.566	6.821	8.070
S-113	DIAN	6.427	6.865	9.109	8.558

The 'Format your columns' dialog box is also open, showing the column roles: NAMA (polynomial), B.IND (real), B.ING (real), MTK (real), and IPA (real). A 'Change role' sub-dialog box is open, prompting the user to enter a new role for the selected column.

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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-03)

Connections (LABSI-03)

data (LABSI-03)

processes (LABSI-03)

Data_NilaiUjian (LABSI-03 - v1)

Tabel Data Nilai Ujian 30 Sisw

Operators

k-means

Modeling (4)

Segmentation (4)

k-Means

k-Means (Kernel)

k-Means (fast)

Cluster Model Visualizer

No results were found.

Process

Process

100%

Retrieve Tabel Data ...

Clustering

Parameters

Clustering (k-Means)

add cluster attribute

add as label

remove unlabeled

k 5

max runs 10

determine good start values

measure types BregmanD...

divergence SquaredEu...

max optimizatio... 100

use local random seed

Hide advanced parameters

Change compatibility (9.3.001)

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

Activate Wisdom of Crowds

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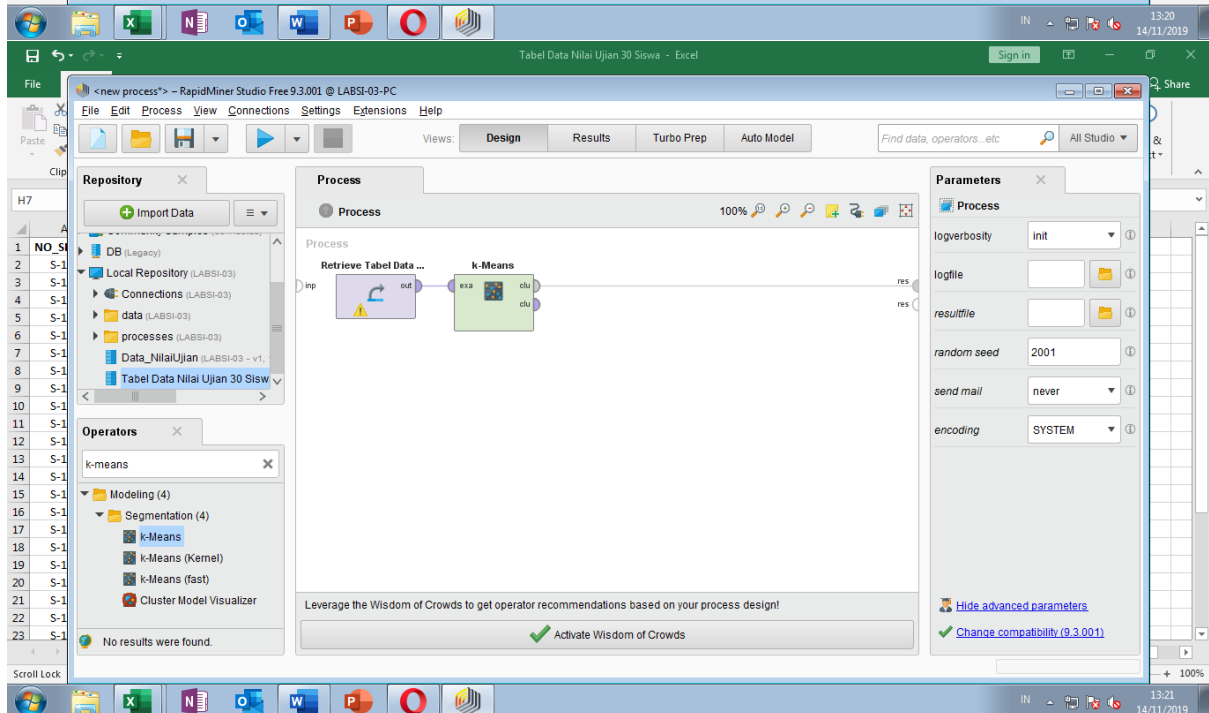
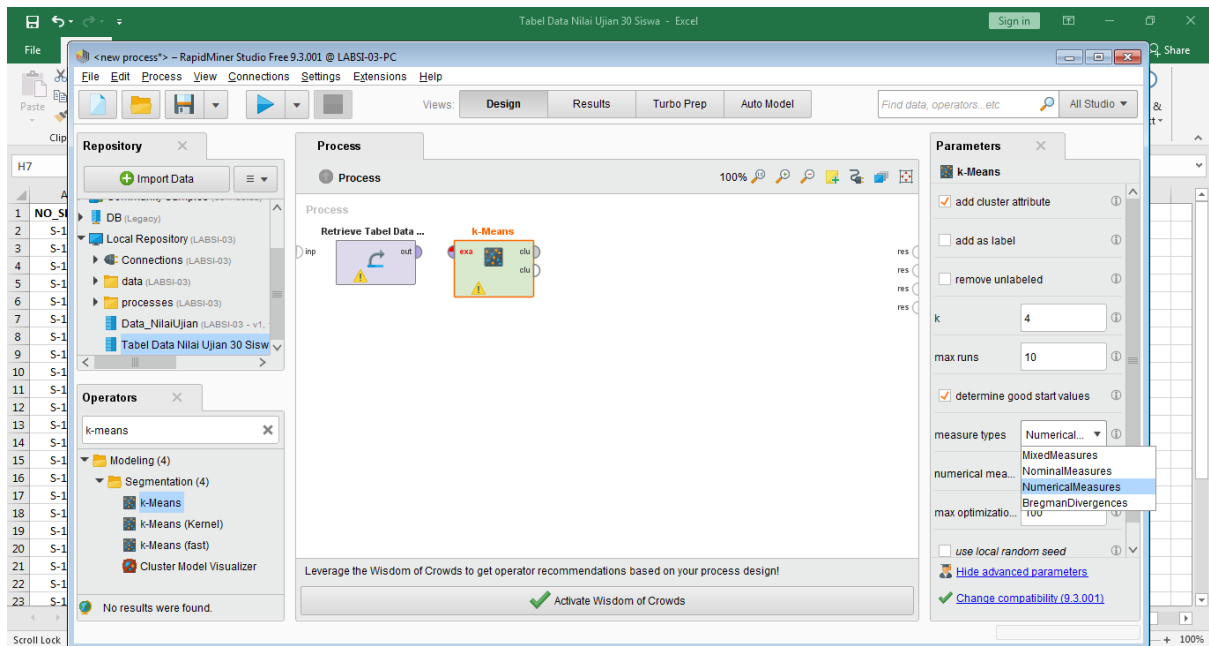
Hide advanced parameters

Change compatibility (9.3.001)

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

Activate Wisdom of Crowds

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Data_NilaiUjian (LABSI-03 - v1)

Tabel Data Nilai Ujian 30 Sisw

Operators

svd

Cleansing (1)

Dimensionality Reduction (1)

Singular Value Decomposition

No results were found.

Process

Process

100%

Retrieve Tabel Data ...

k-Means

SVD

Parameters

Process

logverbosity: init

logfile:

resultfile:

random seed: 2001

send mail: never

encoding: SYSTEM

Hide advanced parameters

Change compatibility (9.3.001)

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

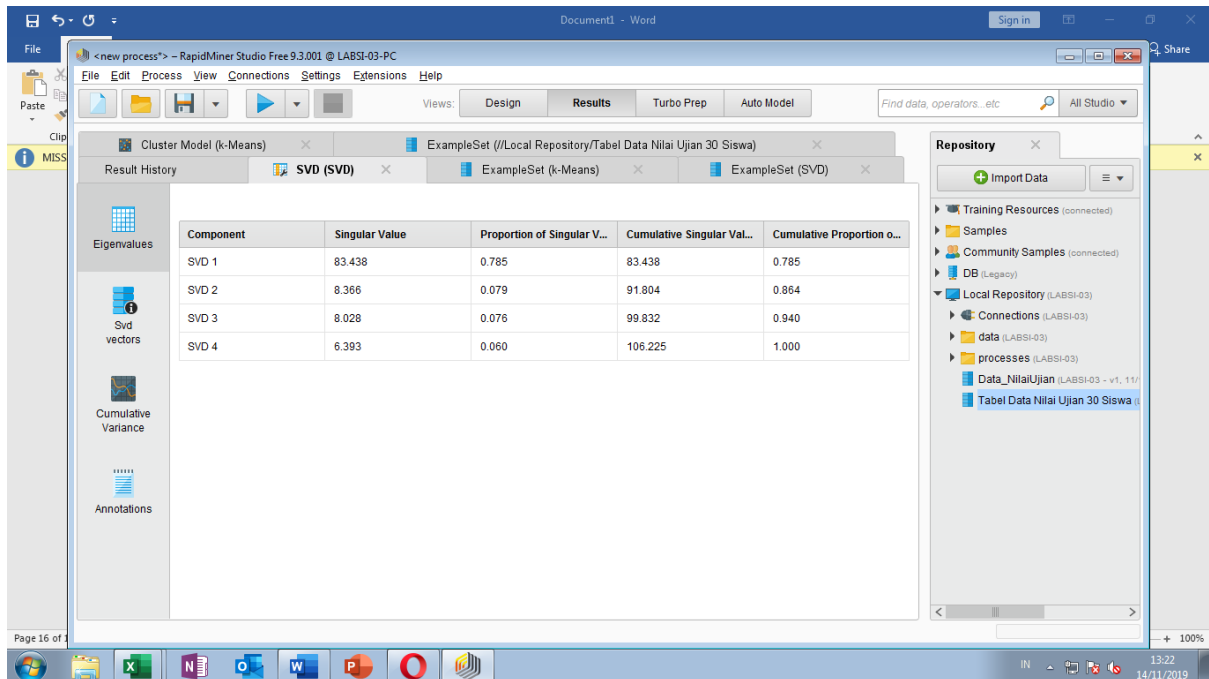
Activate Wisdom of Crowds

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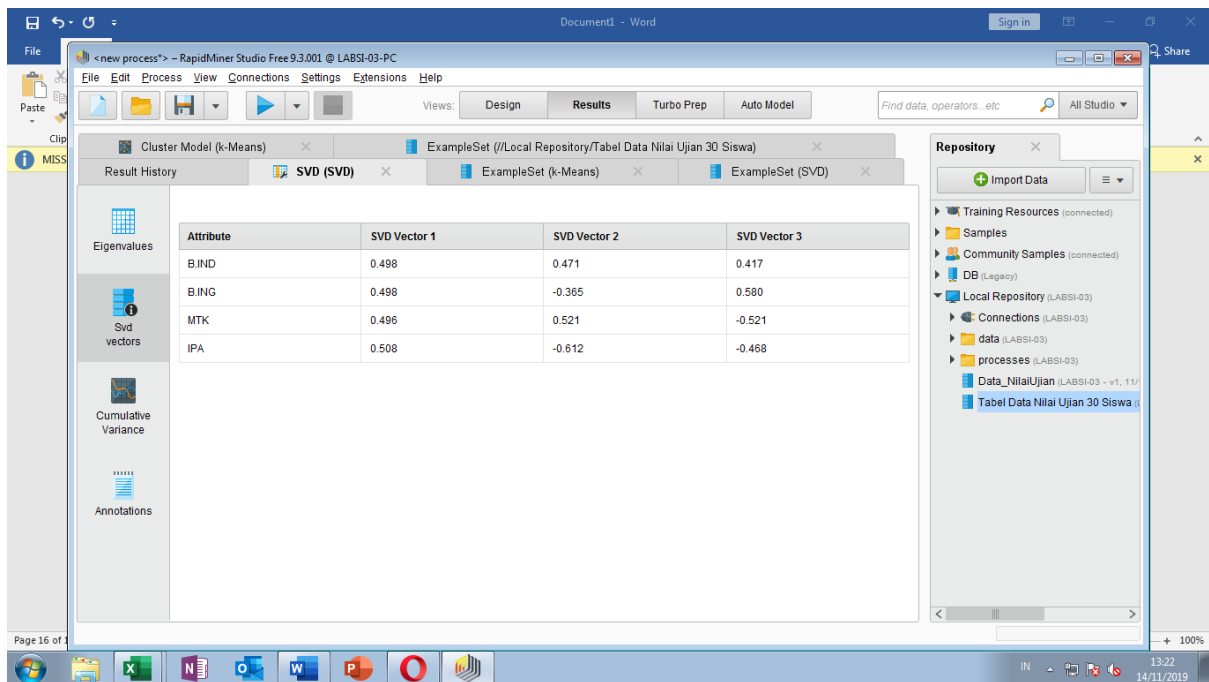
13:21 14/11/2019

a) SVD

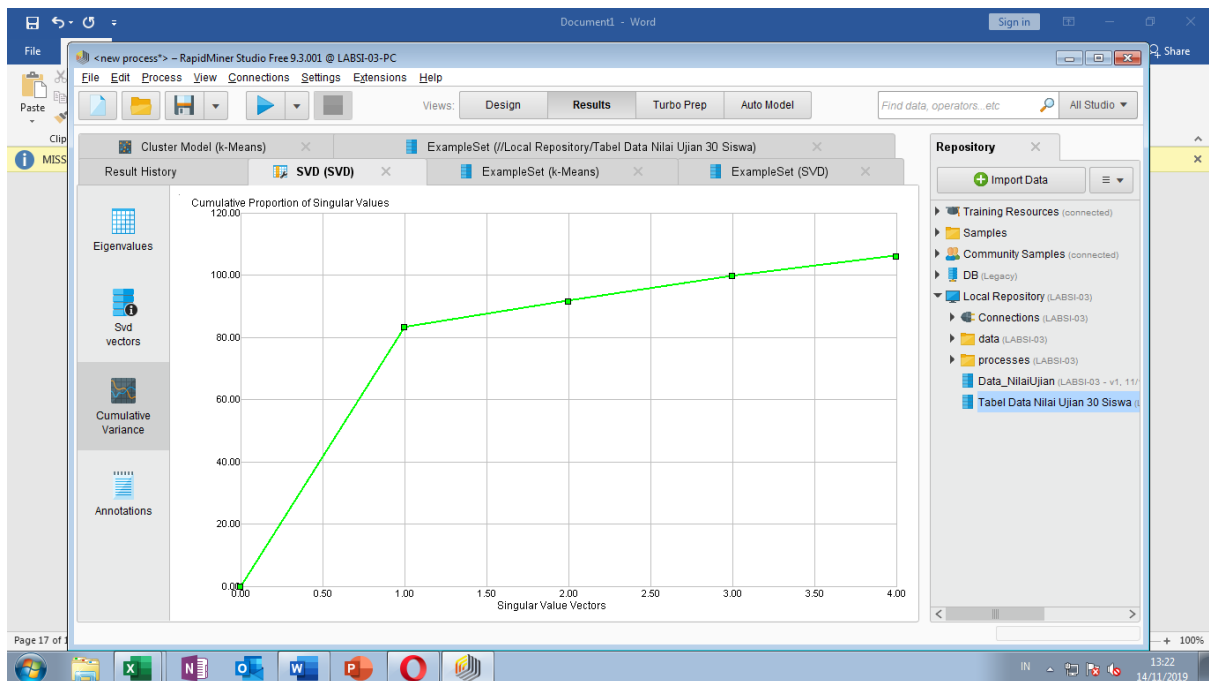
i. Nilai Eigenvalue



ii. Nilai SVD vectors

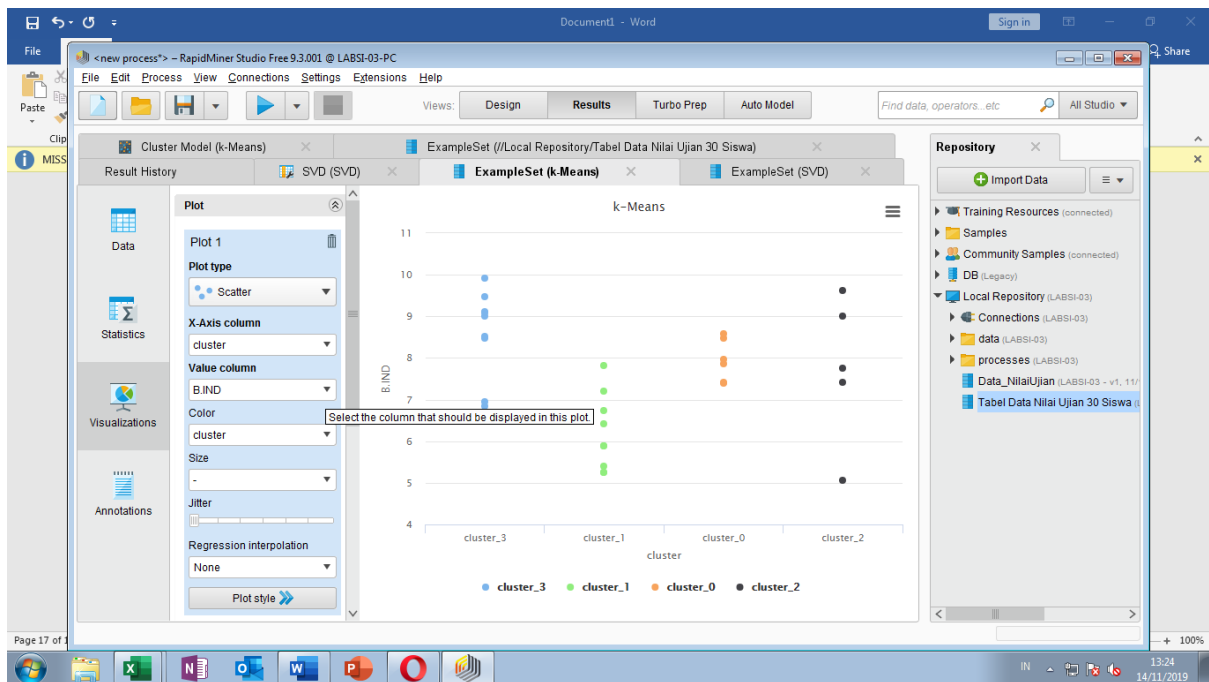


iii. Nilai Cumulative variance

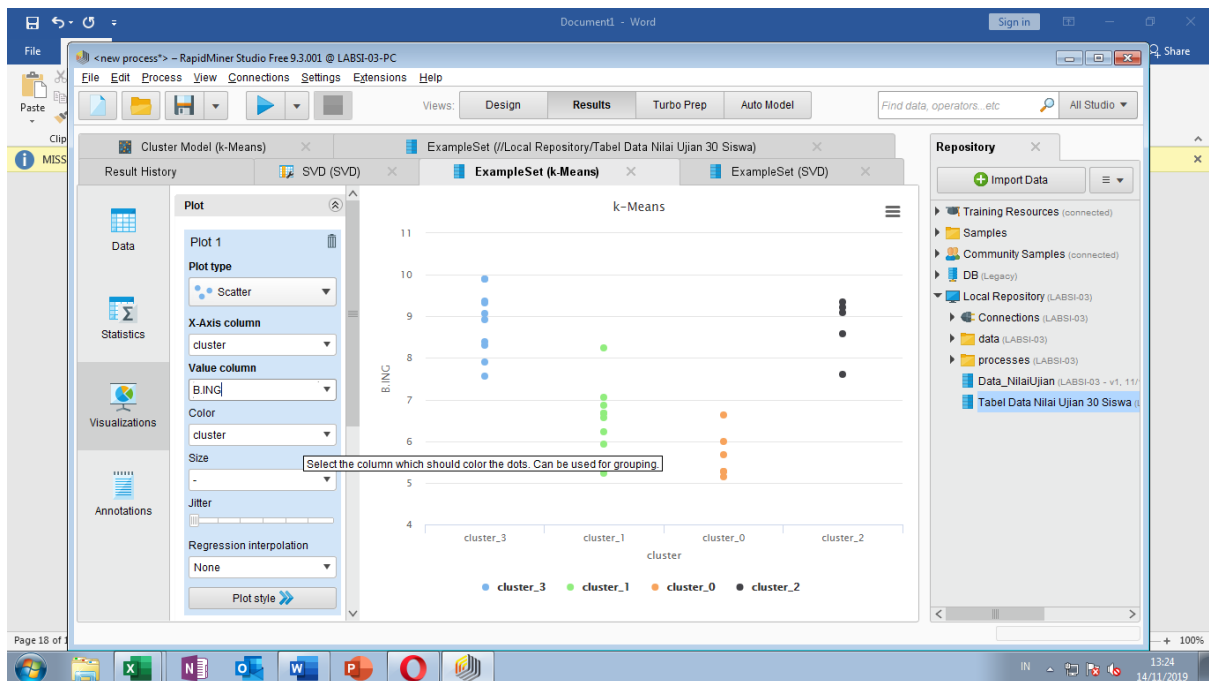


b) ExampleSet (k-Means)

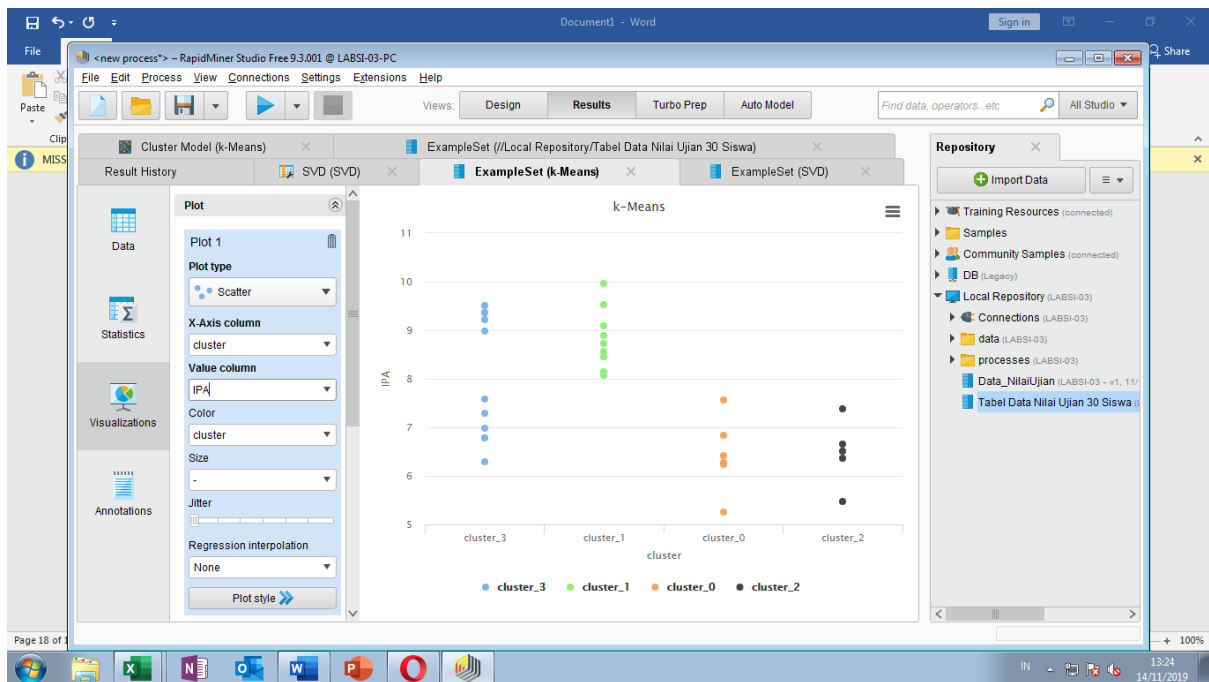
i. B. Ind



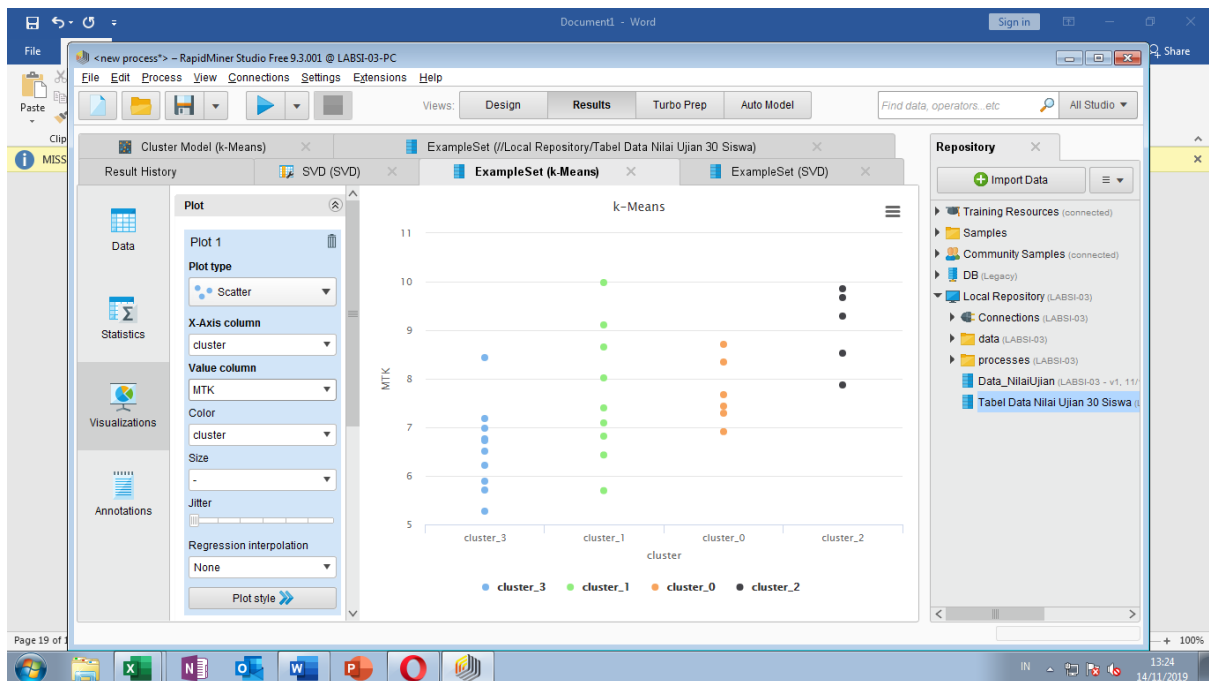
ii. B. Ing



iii. IPA



iv. Mtk



c) Examples (SVD)

The screenshot shows the 'Examples (SVD)' window in RapidMiner Studio. The table displays 30 examples with columns: Row No., NAMA, cluster, and svd_1. The data is filtered to show all 30 examples.

Row No.	NAMA	cluster	svd_1
8	YANTO	cluster_0	0.171
9	WAWAN	cluster_0	0.163
14	DANI	cluster_0	0.173
15	AHMAD	cluster_0	0.160
20	RATIH	cluster_0	0.165
28	FEBRI	cluster_0	0.166
3	SUSI	cluster_1	0.170
5	WATI	cluster_1	0.166
6	IKA	cluster_1	0.173
11	BUDI	cluster_1	0.172
12	SANTI	cluster_1	0.172
13	DIAN	cluster_1	0.186

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File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Cluster Model (k-Means) ExampleSet (/Local Repository/Tabel Data Nilai Ujian 30 Siswa)

Result History SVD (SVD) ExampleSet (k-Means) ExampleSet (SVD)

Open in Turbo Prep Auto Model

Filter (30 / 30 examples): all

Row No.	NAMA	cluster ↑	svd_1
13	DIAN	cluster_1	0.186
16	BAYU	cluster_1	0.160
22	JONO	cluster_1	0.206
27	NANA	cluster_1	0.178
17	RISA	cluster_2	0.171
24	RAMA	cluster_2	0.201
25	BAMBANG	cluster_2	0.202
26	HADI	cluster_2	0.199
30	TONI	cluster_2	0.186
1	JOKO	cluster_3	0.176
2	AGUS	cluster_3	0.196
4	DYAH	cluster_3	0.211

ExampleSet (30 examples, 2 special attributes, 1 regular attribute)

Repository

- Import Data
- Training Resources (connected)
- Samples
- Community Samples (connected)
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Document1 - Word

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Cluster Model (k-Means) ExampleSet (/Local Repository/Tabel Data Nilai Ujian 30 Siswa)

Result History SVD (SVD) ExampleSet (k-Means) ExampleSet (SVD)

Open in Turbo Prep Auto Model

Filter (30 / 30 examples): all

Row No.	NAMA	cluster ↑	svd_1
26	HADI	cluster_2	0.199
30	TONI	cluster_2	0.186
1	JOKO	cluster_3	0.176
2	AGUS	cluster_3	0.196
4	DYAH	cluster_3	0.211
7	EKO	cluster_3	0.193
10	MAHMUD	cluster_3	0.210
18	RANI	cluster_3	0.205
19	YANI	cluster_3	0.192
21	INDAH	cluster_3	0.169
23	SARAH	cluster_3	0.174
29	DENI	cluster_3	0.191

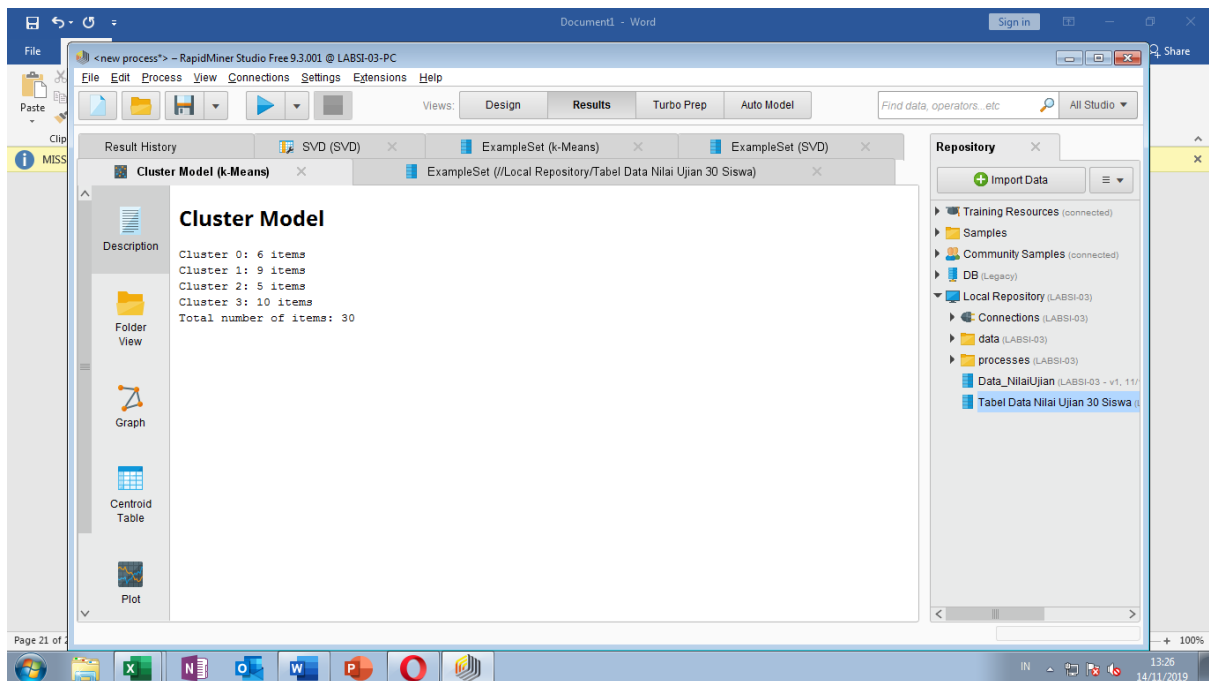
ExampleSet (30 examples, 2 special attributes, 1 regular attribute)

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 - Tabel Data Nilai Ujian 30 Siswa

d) Cluster Model(Clustering)

i. Description



ii. Graph

