

NAMA : Tio Septiadi Murbiantoro

NIM : L200170099

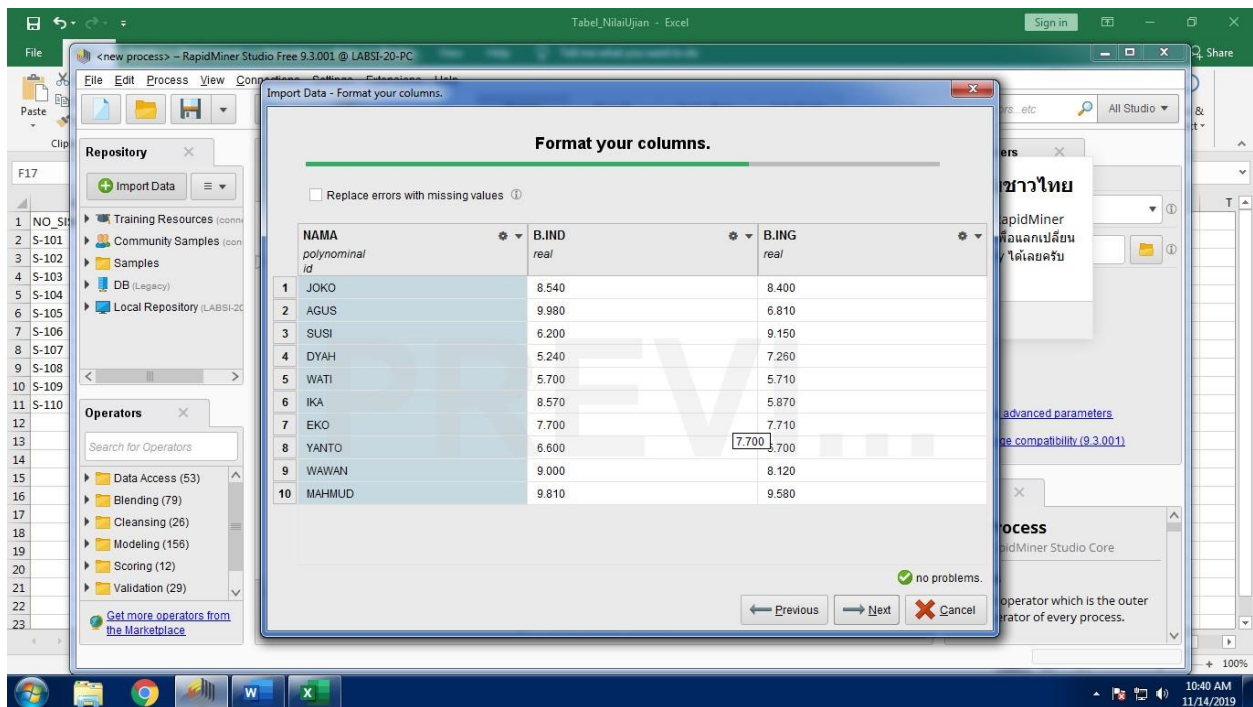
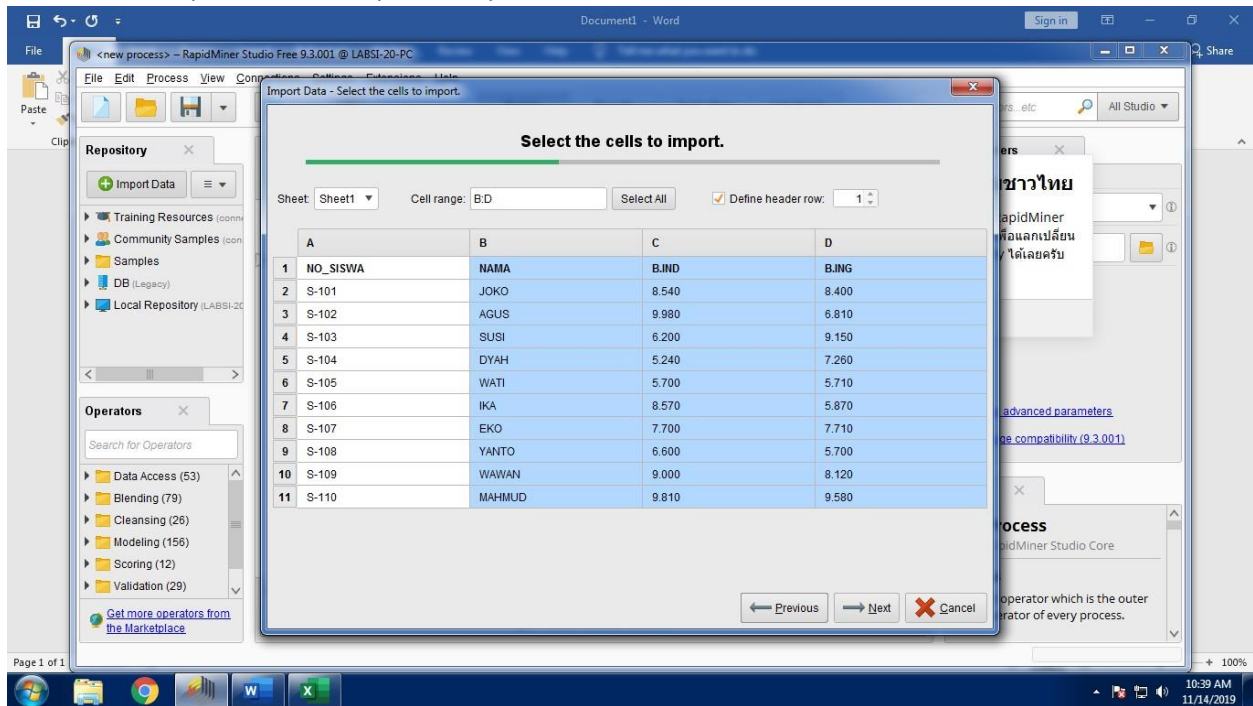
KELAS : B

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

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



ExampleSet (/Local Repository/Data_NilaiUjian)

Row No.	NAMA	B.IJUD	B.IJING
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	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)

Process Design:

```

graph LR
    In[ ] --> Retrieve[Retrieve Data_NilaiUjian...]
    Retrieve --> Clustering[Clustering]
    Clustering --> SVD[SVD]
    SVD --> Out[ ]
  
```

SVD (Singular Value Decomposition) Parameters:

- dimensionality reduction: fixed number
- dimensions: 1

Help: Singular Value Decomposition
RapidMiner Studio Core
Tags: PCA, Components, Orthogonal, Eigenvalues, Decompositions, Reduction, Multicollinearity, SVD, Dimensionality Reduction

Nilai Eigenvalue

Document1 - Word

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_NilaiUjian)

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

Eigenvalues

Svd vectors

Cumulative Variance

Annotations

Component	Singular Value	Proportion of Singular V...	Cumulative Singular Val...	Cumulative Proportion o...
SVD 1	34.340	0.898	34.340	0.898
SVD 2	3.906	0.102	38.246	1.000

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)

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- Nilai Svd vectors

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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 (Clustering) ExampleSet (/Local Repository/Data_NilaiUjian)

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

Eigenvalues

Svd vectors

Cumulative Variance

Annotations

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

Repository

Import Data

Training Resources (connected)

Community Samples (connected)

Samples

DB (Legacy)

Local Repository (LABSI-20)

Connections (LABSI-20)

data (LABSI-20)

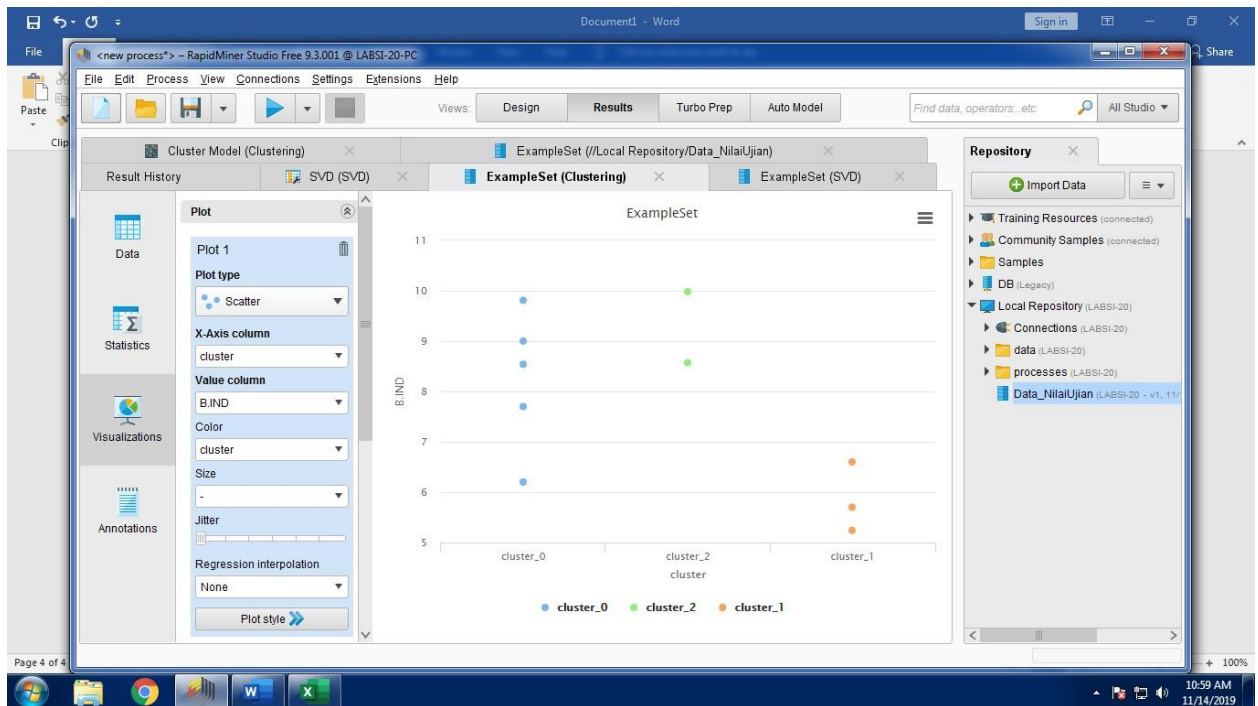
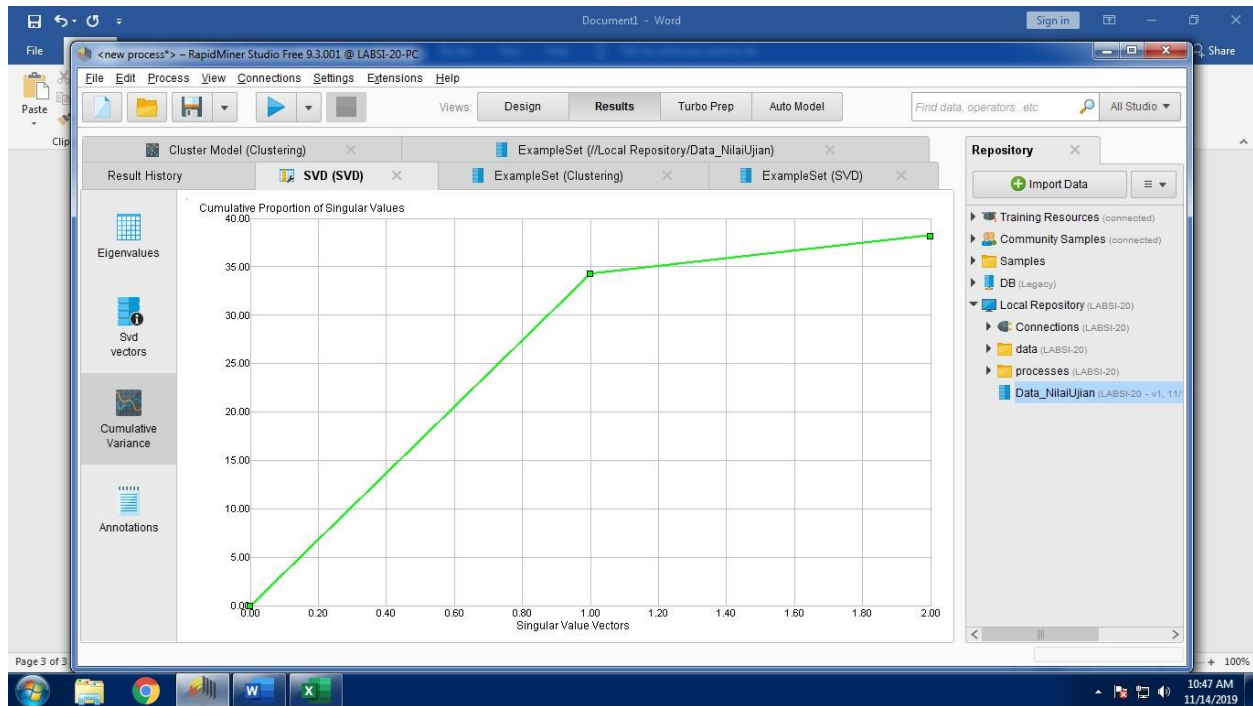
processes (LABSI-20)

Data_NilaiUjian (LABSI-20 - v1, 11)

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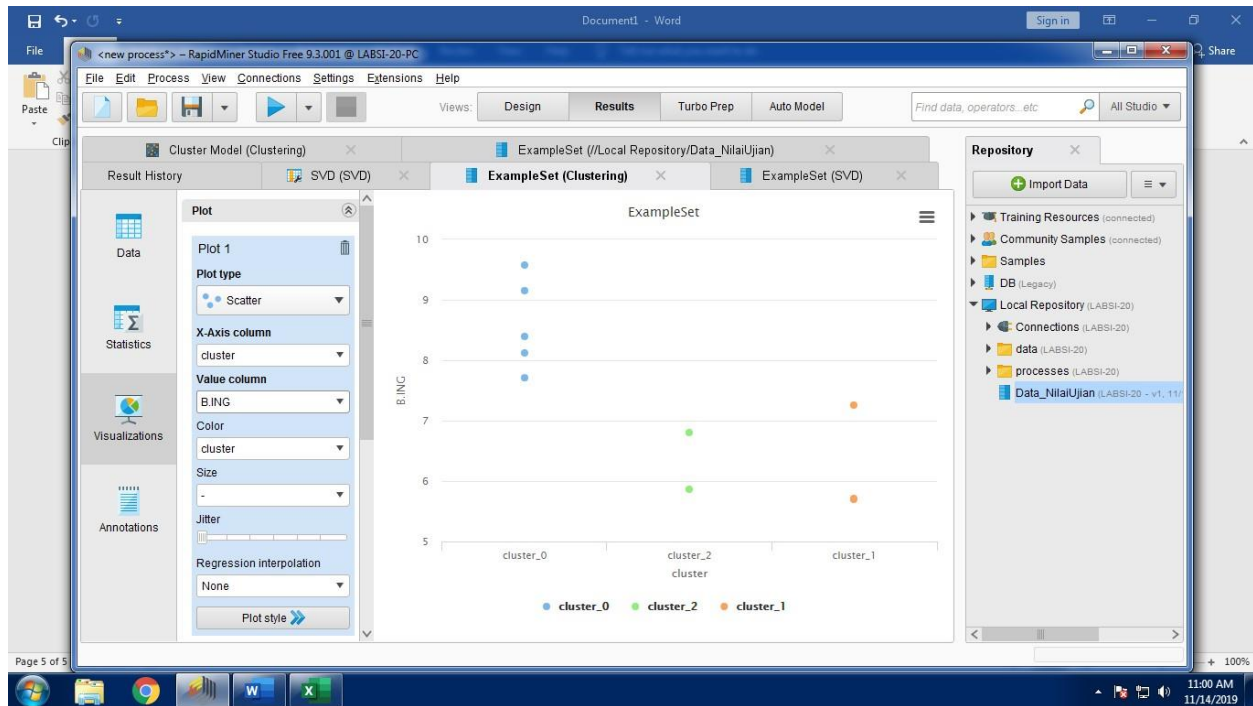
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Nilai Cumulative Variance



- - Kelompok siswa bidang B.indonesia

Kelompok siswa bidang B.inggris

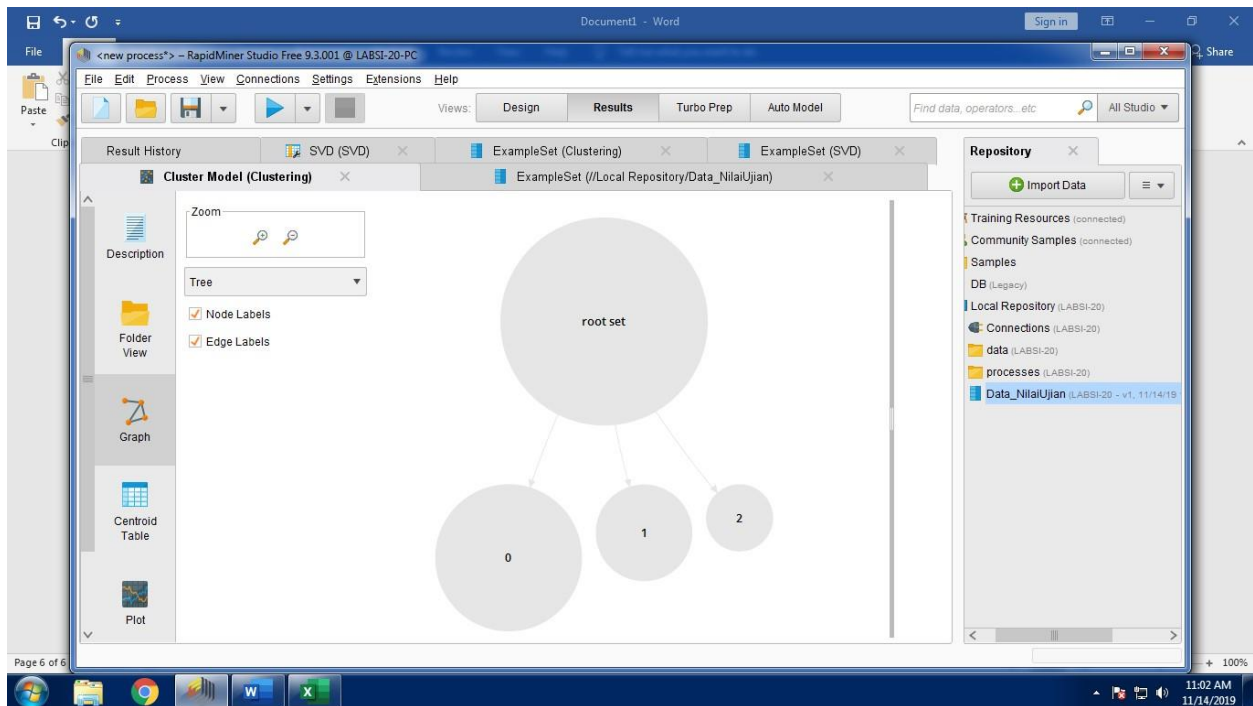
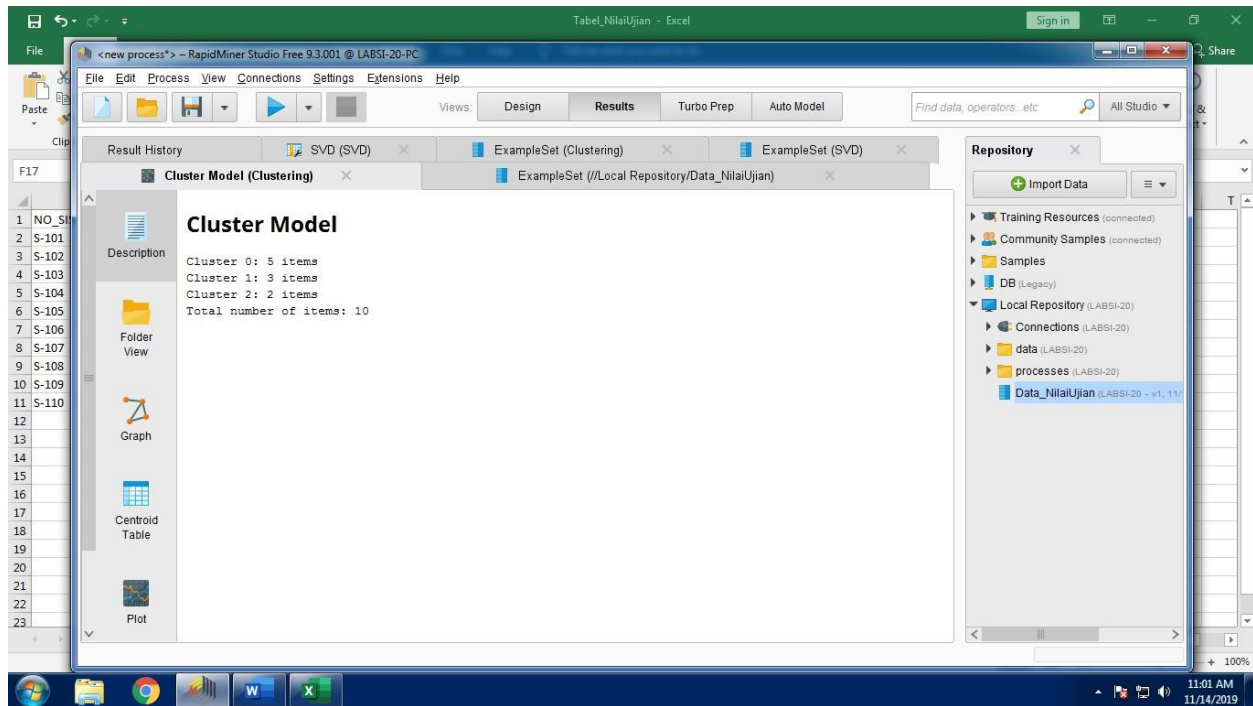


The screenshot shows the RapidMiner Studio interface. The main window displays a table titled 'ExampleSet' with 10 rows and 5 columns: 'Row No.', 'NAMA', 'cluster', 'B.IND', and 'B.ING'. The table shows data points for each cluster, with 'cluster_0' in blue, 'cluster_2' in green, and 'cluster_1' in orange. The left sidebar shows the 'Table' panel with 'Open in' set to 'Auto Model'. The right sidebar shows the 'Repository' panel with 'Data_NilaiUjian' selected.

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

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

Description



- - Graph

Kesimpulan :

Cluster Model (Clustering) x ExampleSet (//Local Repository/Data_NilaiUjian) x

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

Open in Turbo Prep Auto Model Filter (10 / 10 examples): all

Row No.	NAMA	cluster ↑	B.IND	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

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

Repository x

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)

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

kegiatanmodul10_dwdm - Word

Sign in

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_TugasNilaiUjian)

Zoom

Tree

☒ Node Labels

☒ Edge Labels

Description

Folder View

Graph

Centroid Table

Plot

root set

0 1 2 3

Repository

Import Data

(connected)

3 (connected)

BSI-20)

3SI-20)

I-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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