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Kelas : E

Modul 10

CLUSTERING : K-MEANS

Percobaan

1. Import file

<new process> - RapidMiner Studio Educational 9.3.001 @ DESKTOP-M5NJ44K

File Edit Process View Connections Settings Extensions Help

Repository

+ Import Data

Training Resources (connected)

Samples

Community Samples (connected)

DB (Legacy)

Local Repository (Aus)

Operators

Search for Operators

Data Access (53)

Blending (79)

Cleansing (26)

Modeling (156)

Scoring (12)

Validation (29)

Utility (86)

Get more operators from the Marketplace

Import Data - Select the cells to import.

Select the cells to import.

Sheet: Sheet1 Cell range: B1:D11 Select All Define header row: 1

| | A | B | C | D |
|----|----------|--------|-------|-------|
| 1 | NO_SISWA | NAMA | B.IKD | B.IKD |
| 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 |

Previous Next Cancel

Activate Wisdom of Crowds

Process

RapidMiner Studio Core

Process

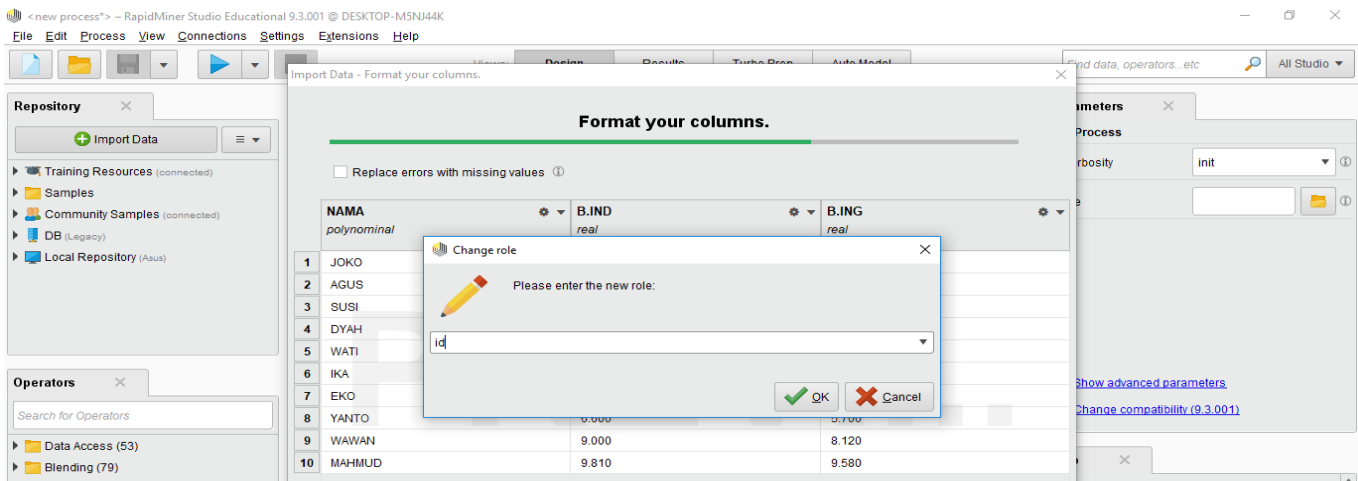
Root operator which is the outer most operator of every process.

Description

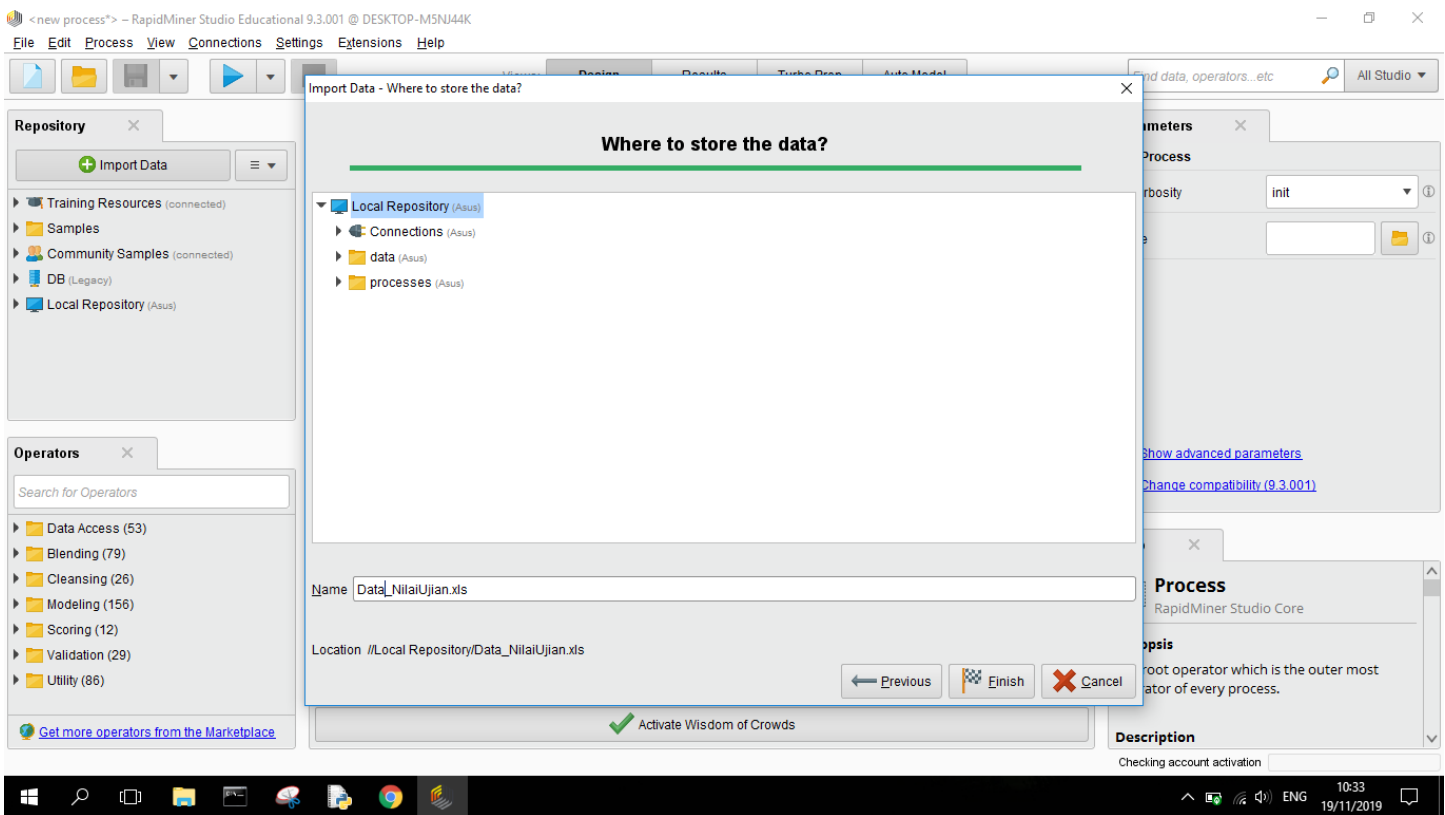
Checking account activation

10:31 19/11/2019

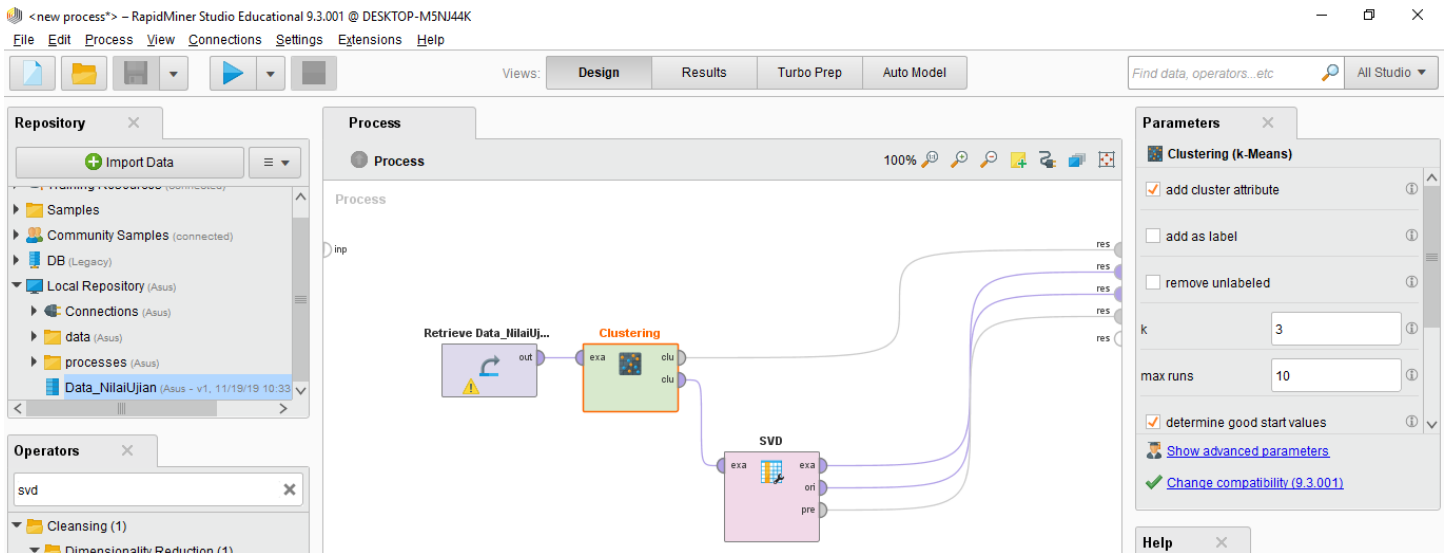
2. Ubah kolom Nama menjadi id



3. Simpan file



4. Buat desain seperti gambar dibawah



5. Hasil SVD (Eigenvalue)

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

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

Eigenvalues

| Component | Singular Value | Proportion of Singular Values | Cumulative Singular Values | Cumulative Proportion of Sin... |
|-----------|----------------|-------------------------------|----------------------------|---------------------------------|
| 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), Samples, Community Samples (connected), DB (Legacy), Local Repository (Asus), Connections (Asus)

6. Hasil SVD (vectors)

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

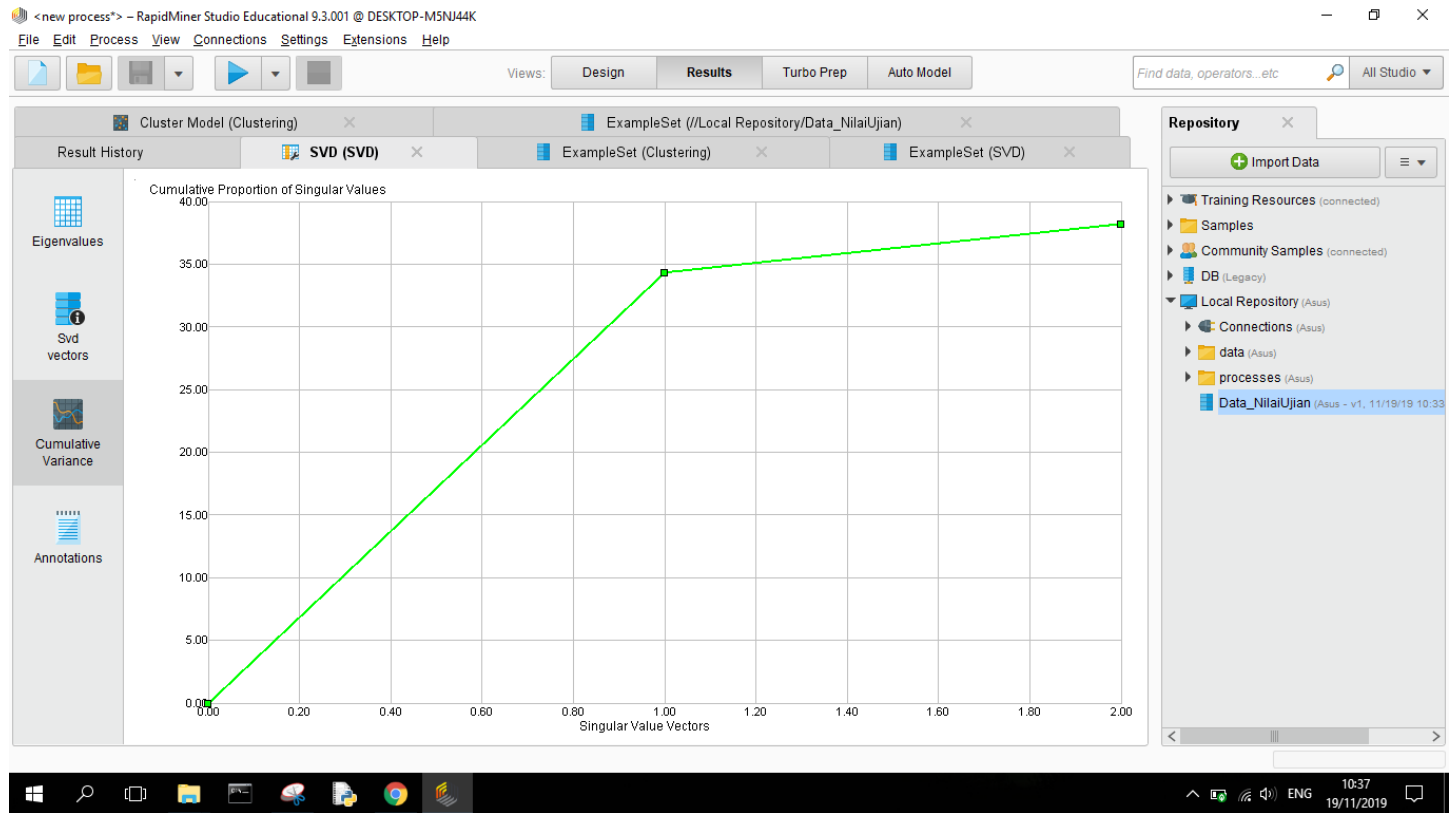
Result History: SVD (SVD) x ExampleSet (Clustering) x ExampleSet (SVD) x

Svd vectors

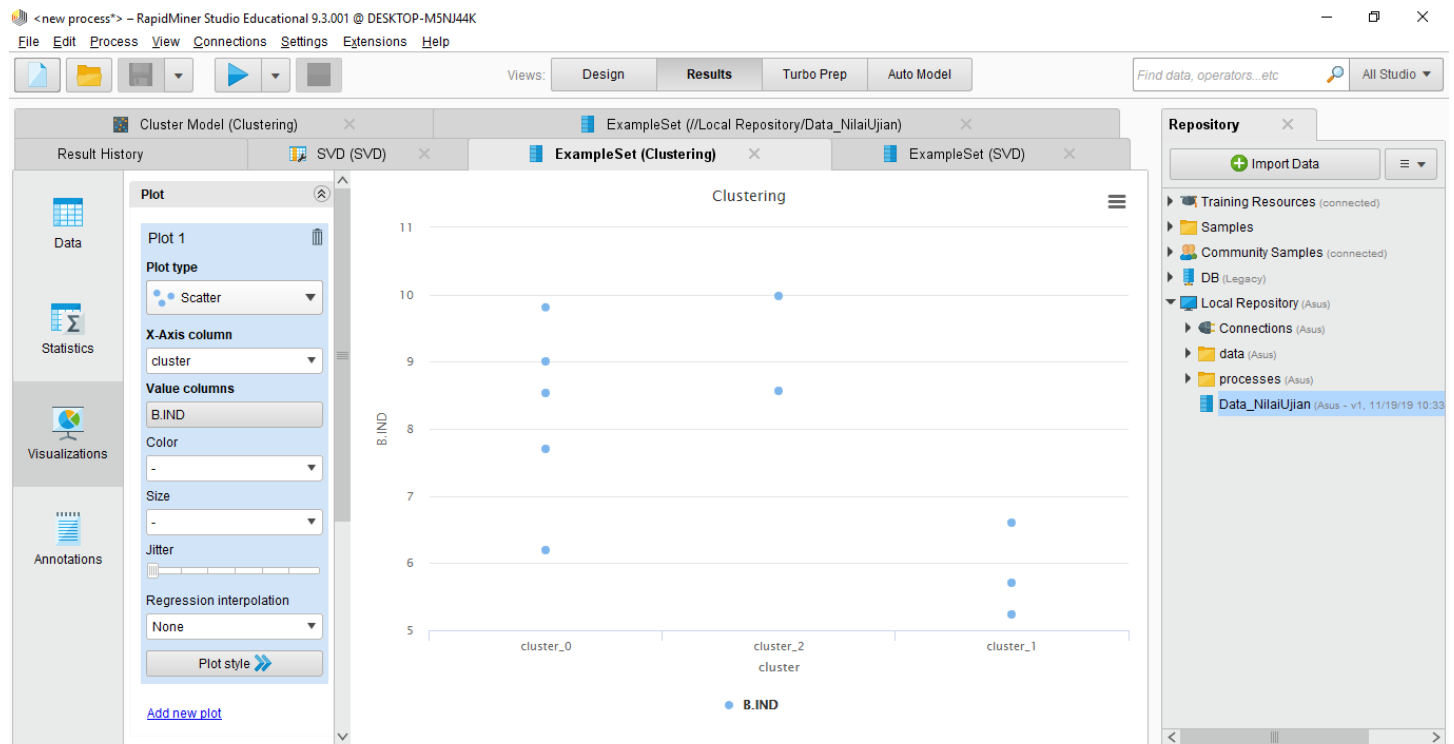
| Attribute | SVD Vector 1 |
|-----------|--------------|
| B.IND | 0.723 |
| B.ING | 0.690 |

Repository: Import Data, Training Resources (connected), Samples, Community Samples (connected), DB (Legacy), Local Repository (Asus), Connections (Asus), data (Asus)

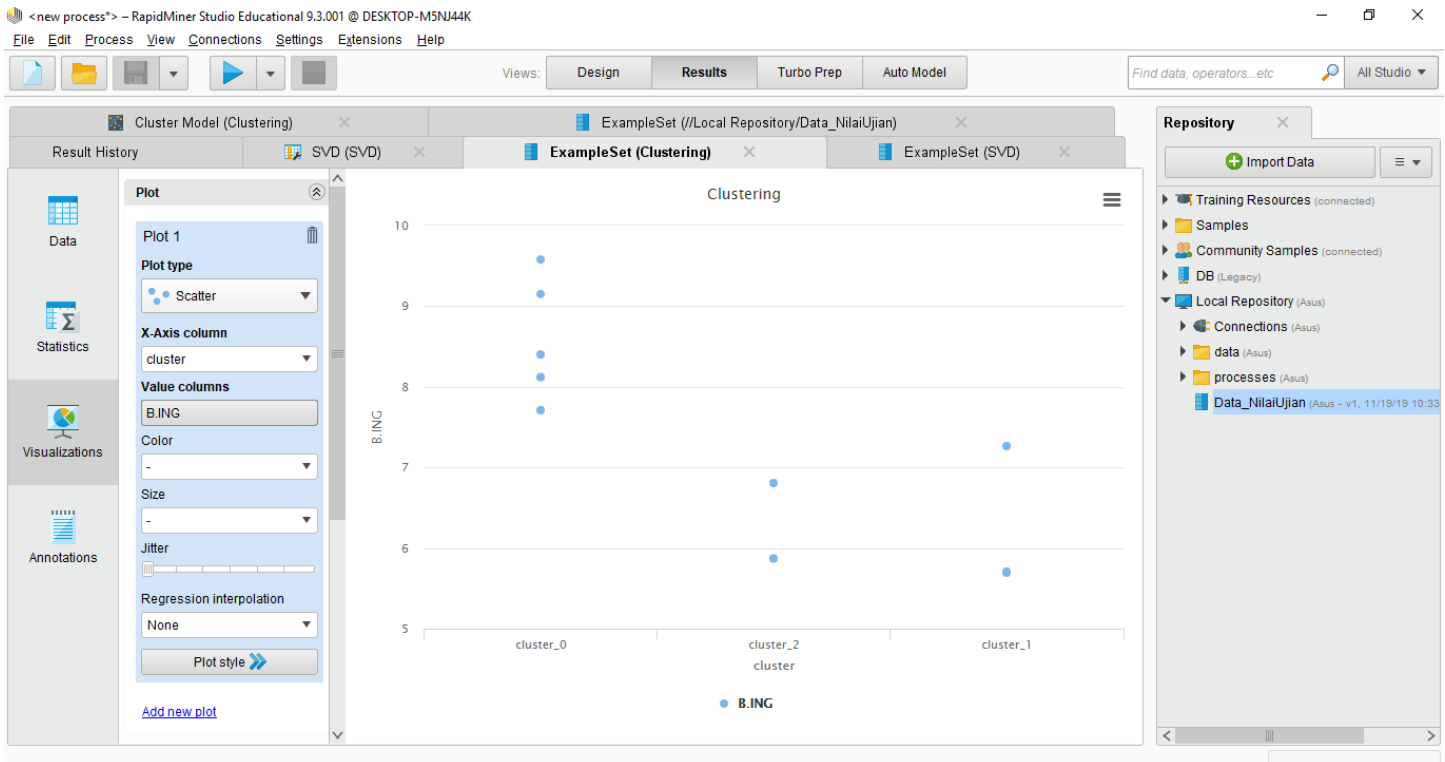
7. Nilai Cumulative variance



8. ExampleSet (K-Means) Bhs. Indonesia



9. ExampleSet (K-Menas) Bhs. Inggris



10. ExampleSet (SVD)

<new process*> - RapidMiner Studio Educational 9.3.001 @ DESKTOP-M5N144K

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)

Open in Turbo Prep Auto Model

Filter (10 / 10 examples): all

| Row No. | NAMA | cluster ↑ | svd_1 |
|---------|--------|-----------|-------|
| 1 | JOKO | cluster_0 | 0.349 |
| 3 | SUSI | cluster_0 | 0.315 |
| 7 | EKO | cluster_0 | 0.317 |
| 9 | WAWAN | cluster_0 | 0.353 |
| 10 | MAHMUD | cluster_0 | 0.399 |
| 4 | DYAH | cluster_1 | 0.256 |
| 5 | WATI | cluster_1 | 0.235 |
| 8 | YANTO | cluster_1 | 0.254 |
| 2 | AGUS | cluster_2 | 0.347 |
| 6 | IKA | cluster_2 | 0.299 |

Repository

Import Data

Training Resources (connected)

Samples

Community Samples (connected)

DB (Legacy)

Local Repository (Asus)

Connections (Asus)

data (Asus)

processes (Asus)

Data_NilaiUjian (Asus - v1, 11/19/19 10:33)

11. Cluster Model

<new process*> - RapidMiner Studio Educational 9.3.001 @ DESKTOP-MSN44K

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

Cluster Model

Cluster 0: 5 items
Cluster 1: 3 items
Cluster 2: 2 items
Total number of items: 10

Folder View

Graph

Repository

- Import Data
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (Asus)
 - Connections (Asus)
 - data (Asus)
 - processes (Asus)
 - Data_NilaiUjian (Asus - v1, 11/19/19 10:33)

12. Graph

<new process*> - RapidMiner Studio Educational 9.3.001 @ DESKTOP-MSN44K

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

Zoom

Tree

☒ Node Labels

☒ Edge Labels

Graph

Centroid Table

Plot

Annotations

root set

0

1

2

Repository

- Import Data
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (Asus)
 - Connections (Asus)
 - data (Asus)
 - processes (Asus)
 - Data_NilaiUjian (Asus - v1, 11/19/19 10:33)