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Kelas : E

## Modul 10

### CLUSTERING : K-MEANS

## Tugas

### 1. Import File

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

File Edit Process View Connections Settings Extensions Help

Repository

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

Operators

- Cleansing (1)
  - Dimensionality Reduction (1)
    - Singular Value Decomposition

No results were found.

Import Data - Select the cells to import.

Select the cells to import.

Sheet: Sheet1 Cell range: B1:F31 Select All Define header row: 1

	A	B	C	D	E	F
1	NO_SISWA	NAMA	B.JND	B.JNG	MTK	IPA
2	S-101	JOKO	6.675	7.350	5.569	7.438
3	S-102	AGUS	8.564	7.575	9.062	7.913
4	S-103	SUSI	8.389	6.396	8.439	9.721
5	S-104	DYAH	8.231	5.586	6.476	5.532
6	S-105	WATI	8.936	7.767	5.676	7.074
7	S-106	IKA	7.315	5.405	6.453	9.454
8	S-107	EKO	8.583	8.098	6.641	5.143
9	S-108	YANTO	9.903	5.800	7.922	5.891
10	S-109	WAWAN	6.797	8.288	8.099	7.379
11	S-110	MAHMUD	5.777	7.358	7.020	6.906
12	S-111	BUDI	6.924	5.549	6.227	7.567
13	S-112	SANTI	5.036	8.064	7.694	7.217
14	S-113	DIAN	9.612	5.034	8.236	9.106

Previous Next Cancel

Parameters

Process

logverbosity init

logfile

Show advanced parameters

Change compatibility (9.3.001)

Help

Process

RapidMiner Studio Core

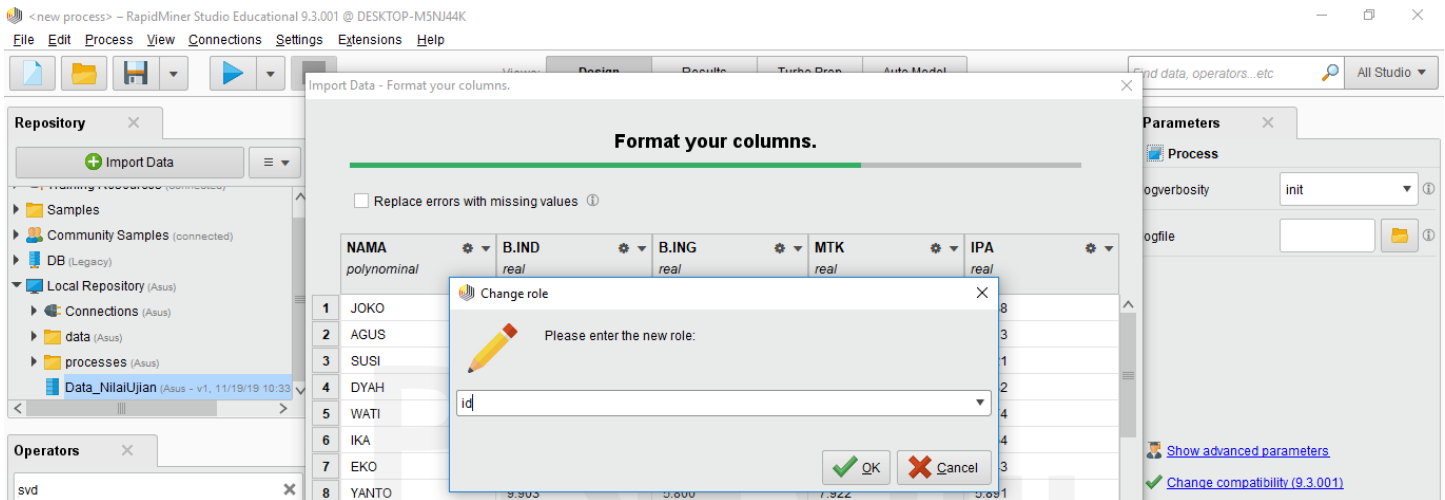
Synopsis

The root operator which is the outer most operator of every process.

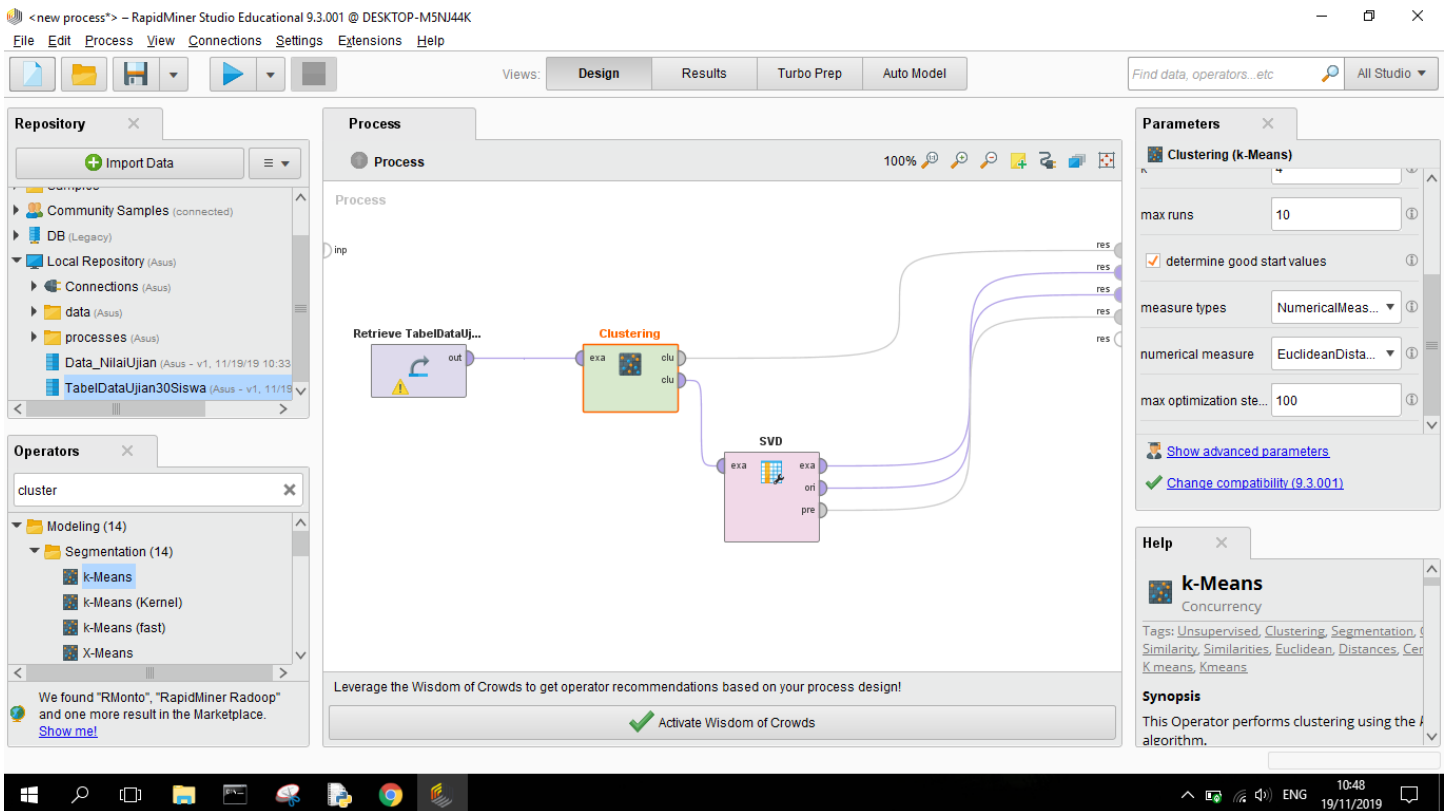
Description

Activate Wisdom of Crowds

## 2. Mengganti role Nama menjadi id



## 3. Desain seperti gambar dibawah



## 4. ExampleSet (Clustering)

Result History | SVD (SVD) | **ExampleSet (Clustering)** | ExampleSet (SVD) | Cluster Model (Clustering)

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

Data | Statistics | Visualizations | Annotations

Row No.	NAMA	cluster ↑	B.IND	B.ING	MTK	IPA
14	DANI	cluster_0	9.739	9.871	6.590	7.313
16	BAYU	cluster_0	5.761	9.758	6.170	9.643
17	RISA	cluster_0	7.498	9.670	9.138	9.480
18	RANI	cluster_0	6.568	8.230	5.279	8.938
26	HADI	cluster_0	7.529	9.787	6.399	9.254
27	NANA	cluster_0	8.106	9.465	6.879	9.487
29	DEI	cluster_0	9.687	9.426	7.185	9.553
2	AGUS	cluster_1	8.564	7.575	9.062	7.913
3	SUSI	cluster_1	8.389	6.396	8.439	9.721
6	IKA	cluster_1	7.315	5.405	6.453	9.454
8	YANTO	cluster_1	9.903	5.800	7.922	5.891
13	DIAN	cluster_1	9.612	5.034	8.236	9.106
19	YANI	cluster_1	8.923	5.413	8.330	5.837
20	RATIH	cluster_1	9.603	6.696	8.239	8.695

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

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) | TabelDataUjian30Siswa (Asus - v1, 11/19/19 10:33)

Result History | SVD (SVD) | **ExampleSet (Clustering)** | ExampleSet (SVD) | Cluster Model (Clustering)

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

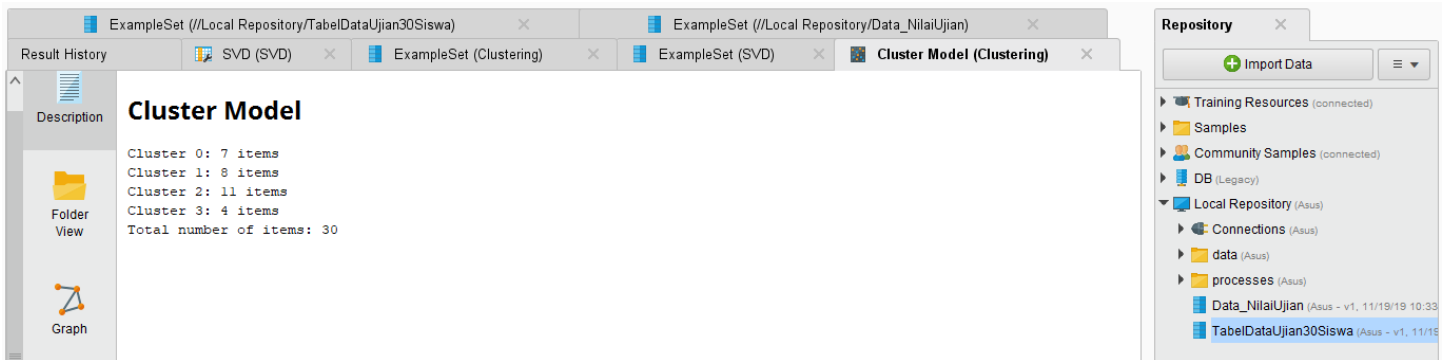
Data | Statistics | Visualizations | Annotations

Row No.	NAMA	cluster ↑	B.IND	B.ING	MTK	IPA
20	RATIH	cluster_1	9.603	6.696	8.239	8.695
24	RAMA	cluster_1	9.192	7.312	7.115	7.816
1	JOKO	cluster_2	6.675	7.350	5.569	7.438
4	DYAH	cluster_2	8.231	5.586	6.476	5.532
5	WATI	cluster_2	8.936	7.767	5.676	7.074
7	EKO	cluster_2	8.583	8.098	6.641	5.143
10	MAHMUD	cluster_2	5.777	7.358	7.020	6.906
11	BUDI	cluster_2	6.924	5.549	6.227	7.567
21	INDAH	cluster_2	8.207	6.939	6.793	6.244
22	JONO	cluster_2	6.287	6.905	7.223	6.531
23	SARAH	cluster_2	9.558	8.650	5.682	6.947
28	FEBRI	cluster_2	5.874	8.430	5.555	5.131
30	TONI	cluster_2	7.523	7.796	7.002	6.408
9	WAWAN	cluster_3	6.797	8.288	8.099	7.379

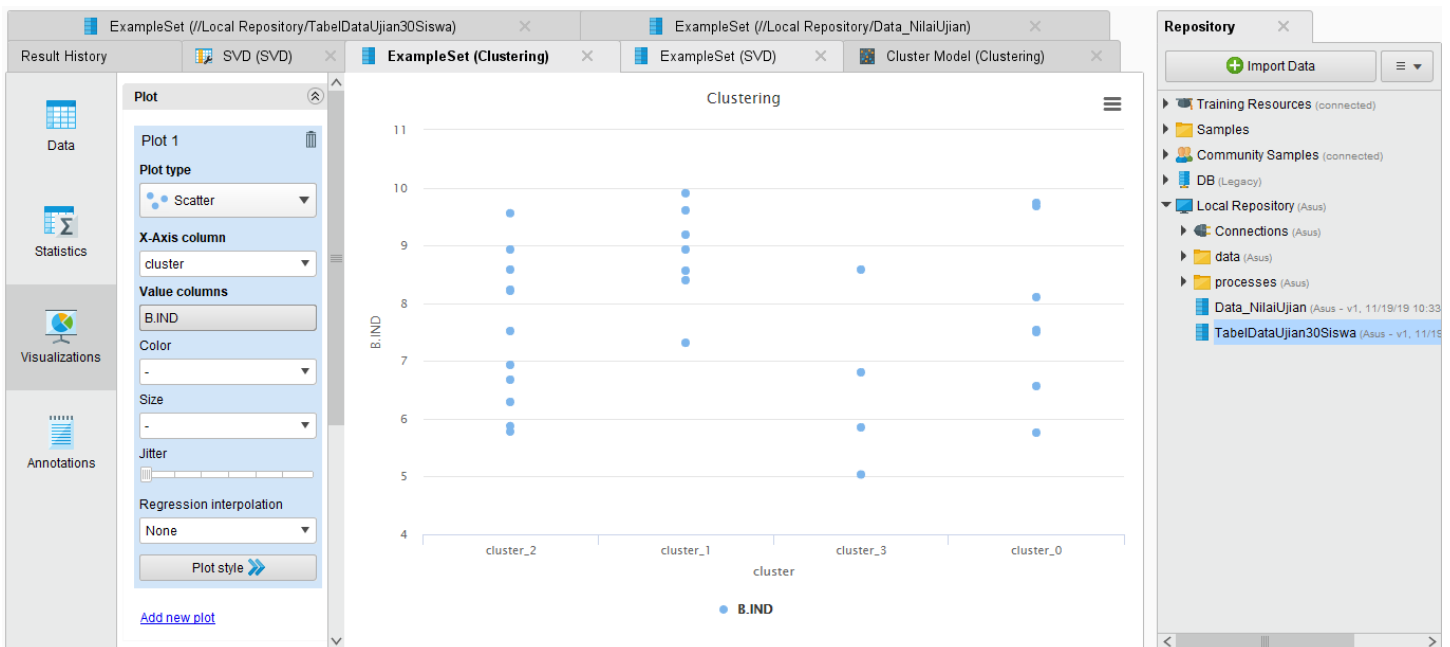
ExampleSet (30 examples, 2 special attributes, 4 regular attributes)

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) | TabelDataUjian30Siswa (Asus - v1, 11/19/19 10:33)

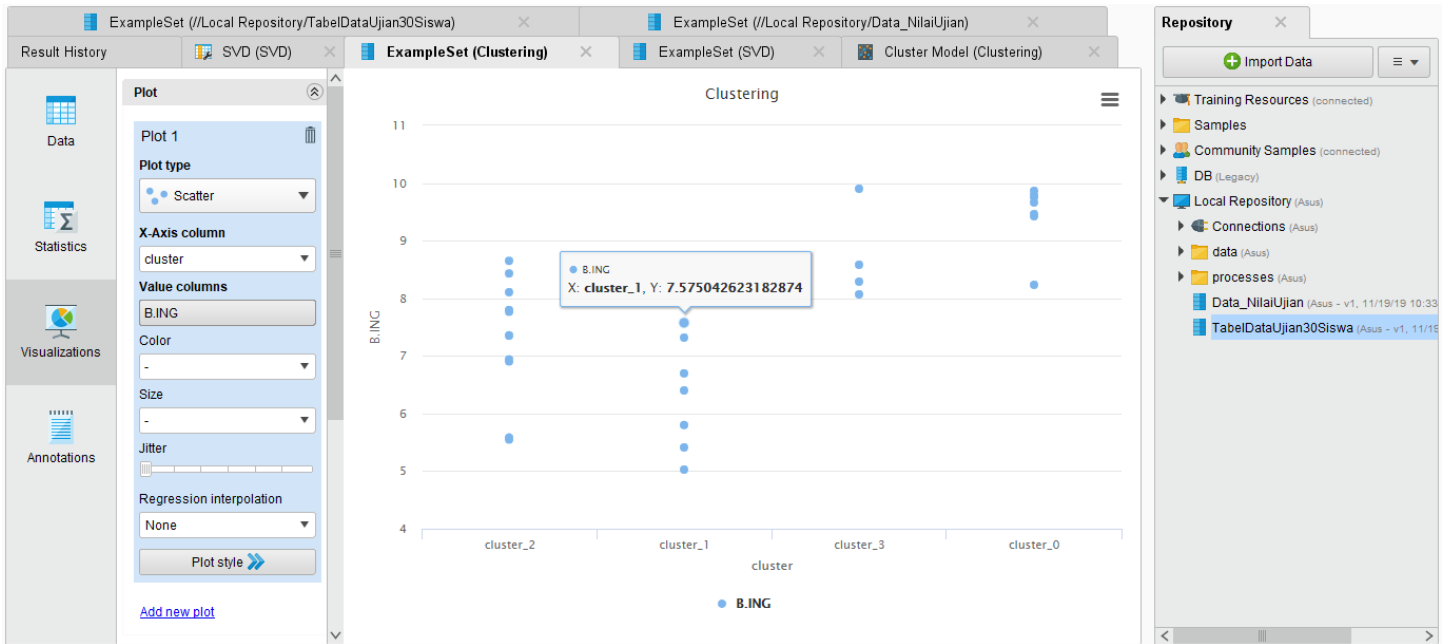
## 5. Cluster Model



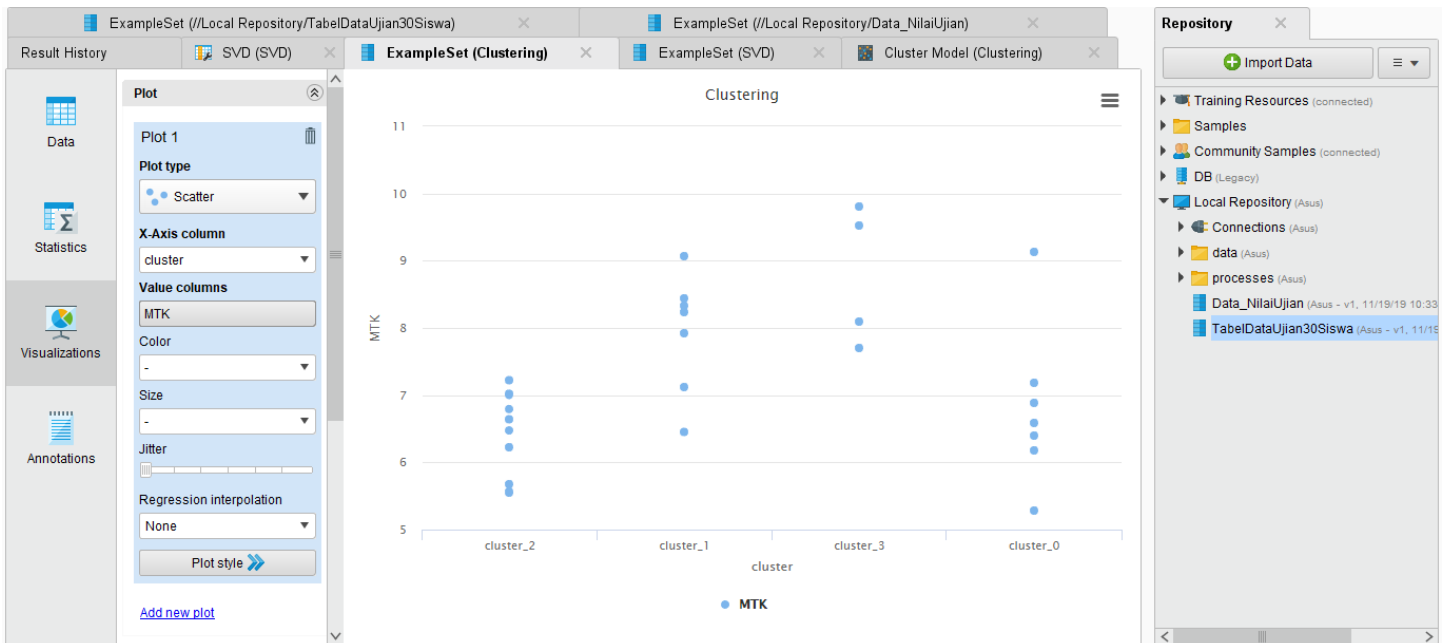
## 6. Kelompok siswa Bidang B. Indonesia



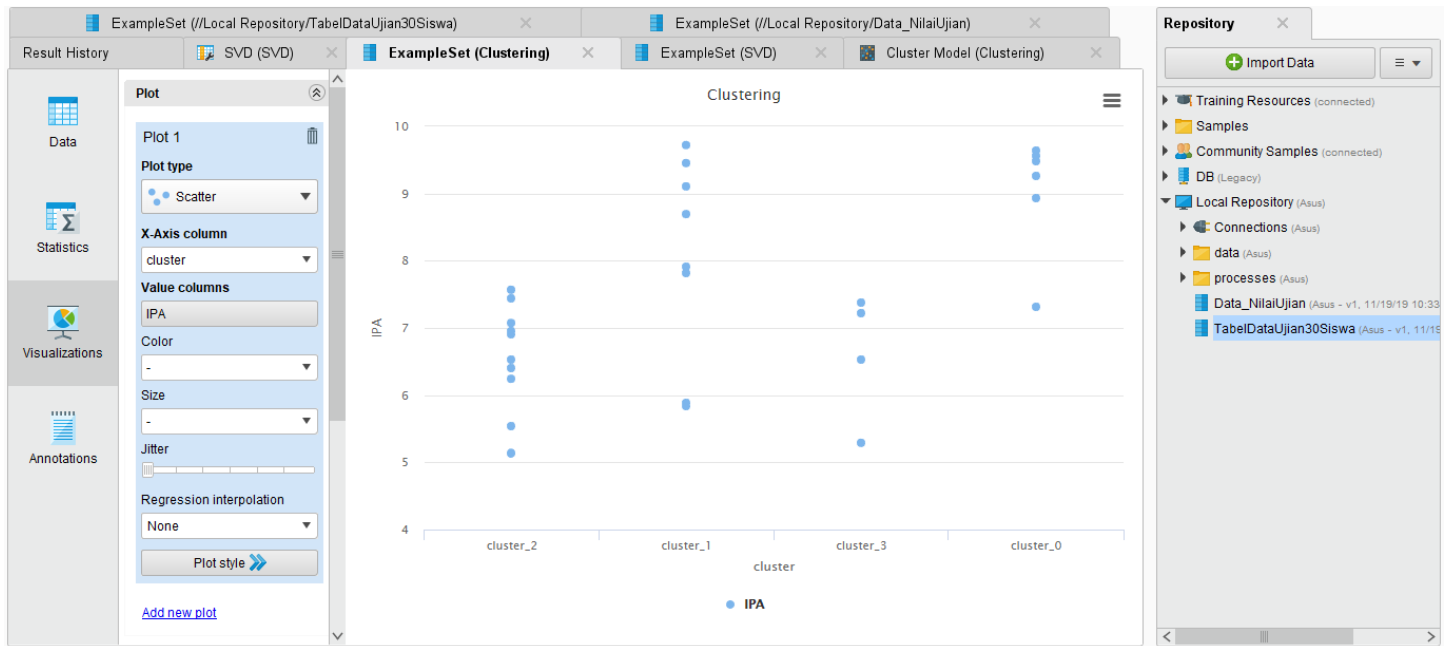
## 7. Kelompok siswa bidang B. Inggris



## 8. Kelompok siswa bidang Matematika



## 9. Kelompok siswa bidang IPA



10. Kelompok cluster 0,1,2,3

[illegible]