

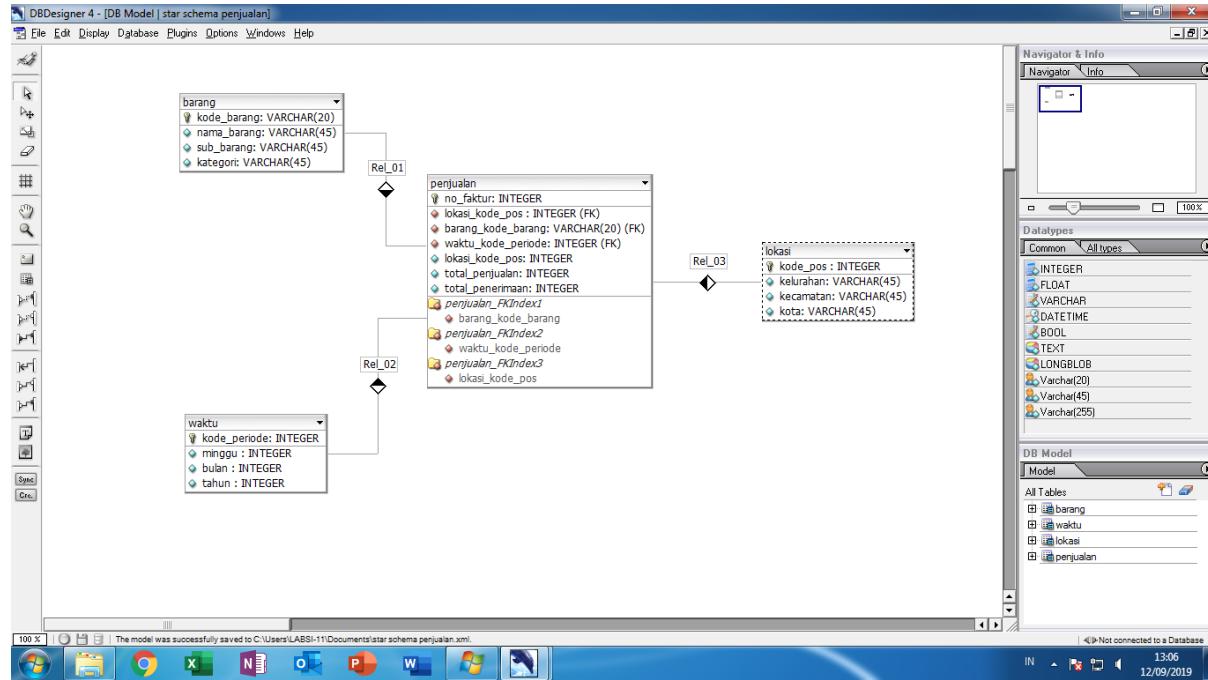
Nama : Tika Pratiwi

NIM : L200170046

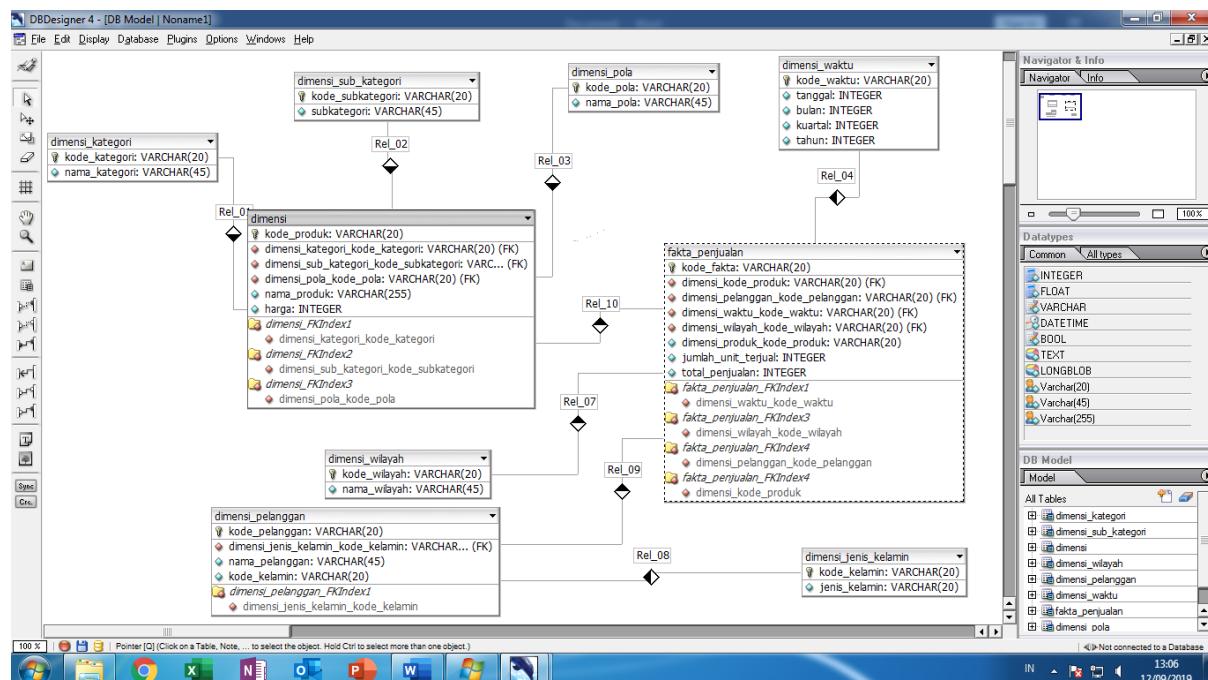
Kelas : C

MODUL 1

Langkah-langkah Praktikum



TUGAS



Nama : Tika Pratiwi

NIM : L200170046

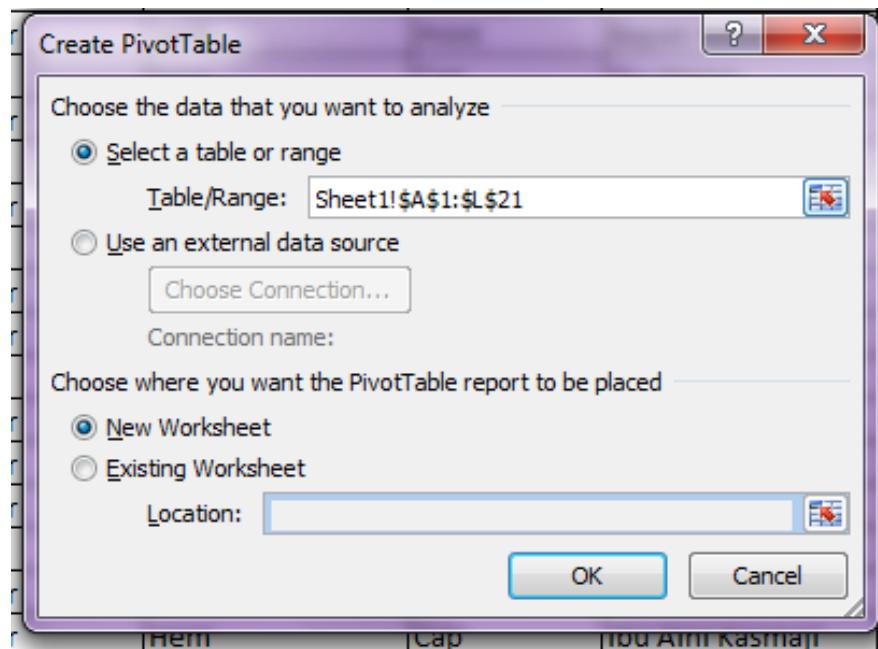
Kelas : C

Kegiatan 1: Membuat Pivot Table

1. Buka sheet Fact_Table, dimana datanya terlihat seperti pada gambar berikut :

A	B	C	D	E	F	G	H	I	J	K	L
1	bulan	kuartal	tahun	nama_produk	nama_kategori	nama_subkategori	nama_pola	nama_pelanggan	jenis_kelamin	nama_wilayah	jumlah
2	12	4	2011	Jarik Standar Print Sogan	Standar	Jarik	Print	Bapak Ketut	PRIA	Bali	2 225000
3	1	1	2012	Kaos Batik Cap Lukis	Batik	kaos	Cap	Ibu Harini	WANITA	Jawa Timur	14 30000
4	4	2	2012	Hem Katun Print Kalengan	Standar	jarik	Tulis	Ibu Harini	WANITA	Jawa Timur	4 40000
5	4	2	2011	Batik Standar Cap Tumpal	Katun	Hem	Print	Ibu Harini	WANITA	Jawa Timur	3 70000
6	9	3	2012	Hem Katun Print Kuwung	Standar	Batik	Cap	Bapak Heru	PRIA	Jawa Timur	1 150000
7	5	2	2012	Bolero Standar Cap Sidomukti	Katun	Hem	Print	Bapak Totok	PRIA	Jawa Timur	3 299000
8	12	4	2011	Sarimbit Standar Print Lukis	Standar	Bolero	Cap	Ibu Hatamah	WANITA	Jawa Timur	1 225000
9	10	4	2011	Kaos Katun Print Bola	Standar	Sarimbit	Print	Ibu Hatamah	WANITA	Jawa Timur	1 150000
10	1	1	2011	Celana Standar Cap Warna	Katun	Kaos	Print	Bapak Imron	PRIA	Jawa Barat	1 60000
11	2	1	2012	Celana Standar Print Lasem	Standar	Celana	Cap	Ibu Hadi Sukarni	WANITA	Jawa Barat	17 55000
12	3	1	2010	Bahan Standar Cap Garis	Standar	Celana	Print	Ibu Hadi Sukarni	WANITA	Jawa Barat	17 55000
13	3	1	2011	Rok Batik Print Kombinasi	Standar	Bahan	Cap	Ibu Siti Arya	WANITA	Jawa Barat	8 120000
14	12	4	2012	Jam Standar Print Lukis	Batik	Rok	Print	Ibu Siti Arya	WANITA	Jawa Barat	1 225000
15	1	1	2012	Hem Standar Cap Tumpal	Standar	Jam	Print	Ibu Siti Arya	WANITA	Jawa Barat	44 80000
16	9	3	2012	Bahan Lawasan Tulis Tolet	Standar	Hem	Cap	Ibu Aini Kasmaji	WANITA	Jawa Tengah	1 100000
17	6	2	2012	Hem Standar Tulis Madura	Lawasan	Bahan	Tulis	Ibu Niken	WANITA	Jawa Tengah	1 130000
18	8	3	2011	Bahan Standar Cap Garis	Standar	Hem	Tulis	Ibu Atik	WANITA	Jawa Tengah	5 550000
19	4	2	2012	Bahan Standar Cap Garis	Standar	Bahan	Cap	Ibu Tyas	WANITA	Jawa Tengah	7 135000
20	6	2	2010	Bahan Beludru Cap Mahkota	Beludru	Bahan	Cap	Ibu Tyas	WANITA	Jawa Tengah	1 500000
21	11	4	2010	Hem Sutra Print Rama	Sutra	Hem	Print	Ibu Tyas	WANITA	Jawa Tengah	5 100000

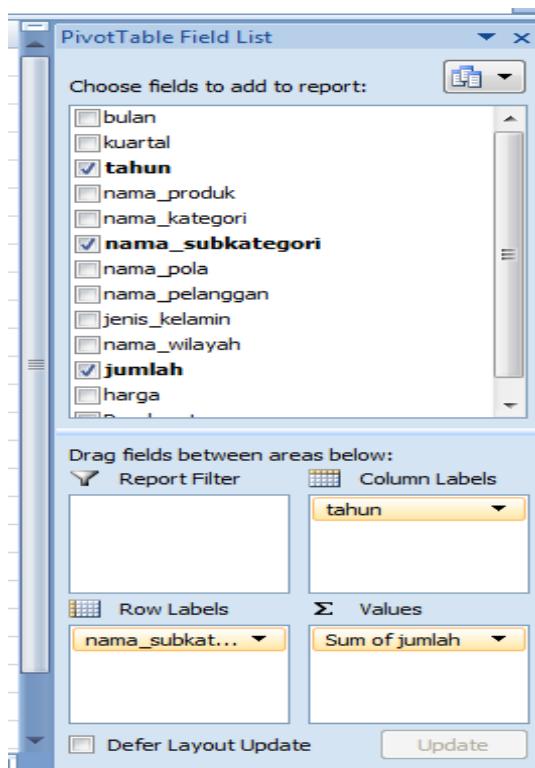
2. Pilih range data A1:L21 atau tekan tombol CTRL + SHIFT + *.
3. Klik tab Insert pada Ribbon, pilih menu PivotTable | Insert PivotTable.
4. Pada dialog Create PivotTable yang muncul, pilih New Worksheet, klik tombol OK.



5. Sheet baru akan muncul disertai suatu kotak / placeholder PivotTable (PivotTable Box).

6. Susunlah layout field dengan urutan berikut :

- Field nama_subkategori ke kotak Row Labels.
- Field tahun ke kotak Column Labels.
- Field jumlah ke kotak Values.



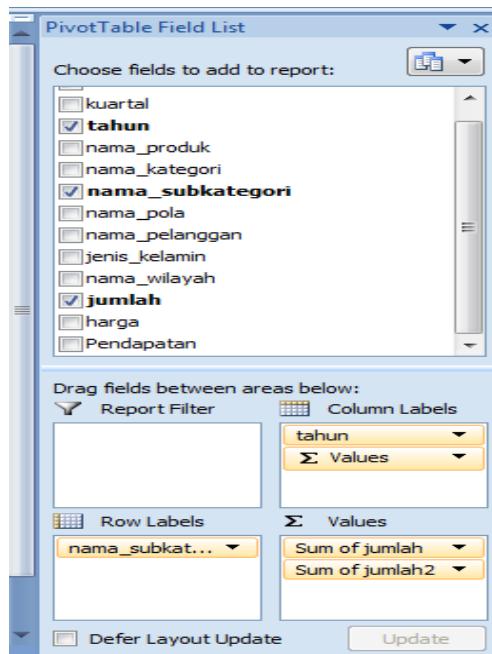
7. Perhatikan hasil pengaturan ini pada area PivotTable. Area ini akan berisi suatu tabel dengan grouping field **nama_subkategori** pada bagian baris, field **tahun** pada kolom. Sedangkan nilai total jumlah_unit ditempatkan pada cell-cell hasil perpotongan item grouping baris dan kolom tersebut.

		Column Labels	2010	2011	2012	Grand Total
	Row Labels					
3	Sum of jumlah					
4						
5	Bahan		1	8	8	17
6	Batik				1	1
7	Bolero			1		1
8	Celana		17		17	34
9	Hem		5	8	4	17
10	Jam				44	44
11	Jarik			2	4	6
12	kaos			1	14	15
13	Rok				1	1
14	Sarimbit			1		1
15	Grand Total		23	21	93	137

Salah satu contoh perpotongan adalah total jumlah yang terjual dengan kategori Jam selama tahun 2012, adalah sebesar 44 unit.

Kegiatan 2 : Menambahkan Tipe Summary Baru

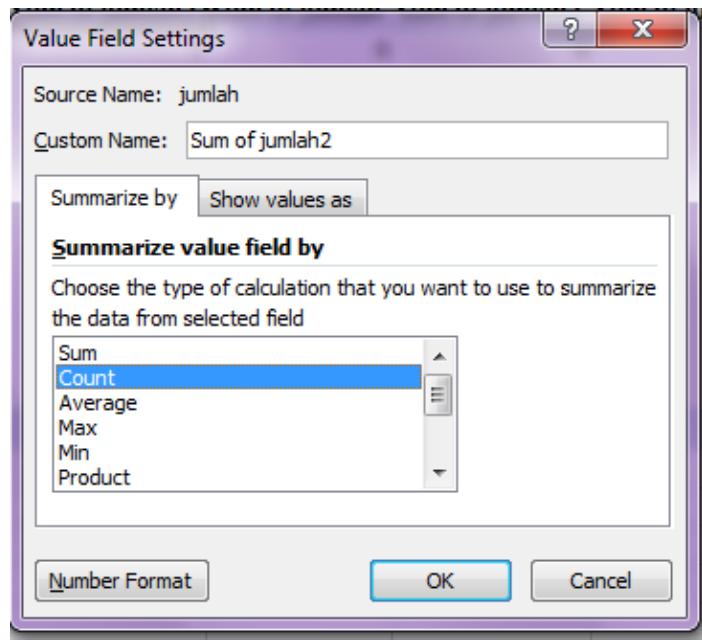
1. Masih bekerja menggunakan file “Fakta_Penjualan.xls” pada Kegiatan 1 dengan Sheet1 PivotTable.
2. Tambahkan field jumlah kembali ke kotak Value dengan cara klik dan drag, sehingga muncul field baru dengan nama Sum of jumlah2.



3. Dan akan diperoleh tambahan satu kolom perhitungan baru yang sama dengan hasil sebelumnya pada masing-masing tahun.

	Column Labels	2010	2011	2012	Total Sum of jumlah	Total Sum of jumlah2
Row Labels	Sum of jumlah	Sum of jumlah2	Sum of jumlah	Sum of jumlah2	Sum of jumlah	Sum of jumlah2
Bahan	1	1	8	8	8	17
Batik				1	1	1
Bolero			1	1		1
Celana	17	17		17	17	34
Hem	5	5	8	4	4	17
Jam				44	44	44
Jarik		2	2	4	4	6
kaos		1	1	14	14	15
Rok				1	1	1
Sarimbit		1	1			1
Grand Total	23	23	21	21	93	137

4. Kembali ke area Values, dan klik tombol panah ke bawah pada field Sum of jumlah2. Pilih item Value Field Settings.
5. Pada dialog Value Field Settings, ubah Sum menjadi Count. Perhatikan nama field akan berubah menjadi Count of jumlah2.



6. Klik tombol OK

7. Pada area PivotTable, didapatkan dua summary yaitu:

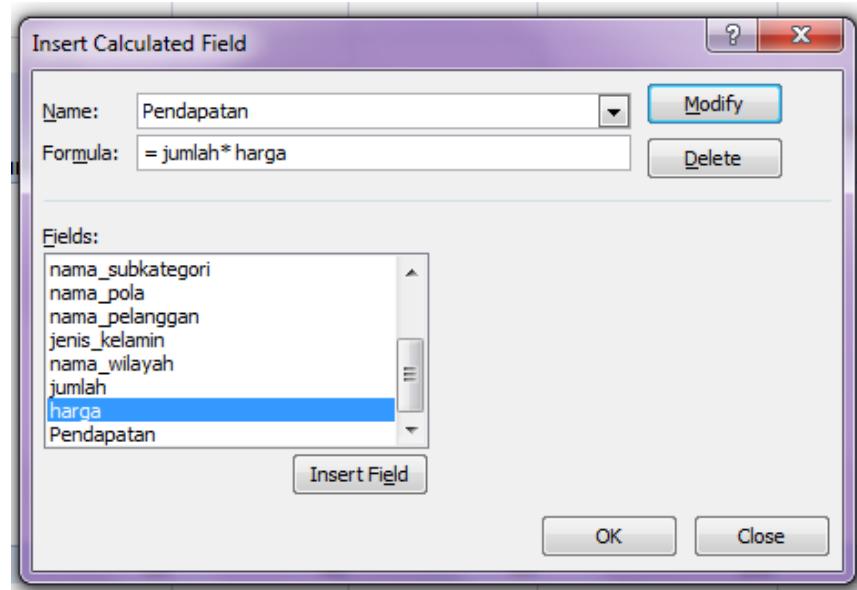
- a. nilai jumlah unit penjualan yang terjadi (sum).
- b. jumlah transaksi yang terjadi (count).

		Column Labels						
		2010	2011	2012	Total	Sum of jumlah	Total Sum of jumlah	Total Count of jumlah2
5	Row Labels	Sum of jumlah	Count of jumlah2	Sum of jumlah	Count of jumlah2	Sum of jumlah	Count of jumlah2	
6	Bahan	1	1	8	1	8	2	17
7	Batik					1	1	1
8	Bolero			1	1			1
9	Celana	17	1			17	1	34
10	Hem	5	1	8	2	4	2	17
11	Jam					44	1	44
12	Jarik			2	1	4	1	6
13	kaos			1	1	14	1	15
14	Rok					1	1	1
15	Sarimbit			1	1			1
16	Grand Total	23	3	21	7	93	10	137
								20

Kegiatan 3 : Calculated Field dan Calculated Item di Pivot Table

1. Buka Sheet1 dalam file Fakta_Penjualan.xls, dan letakkan kursor ke area PivotTable.
2. Pada menu ribbon PivotTable Tools | Options, klik button Field, Item & Sets dan pilih Calculated Field.
3. Pada kotak dialog Insert Calculated Field yang muncul, masukkan nilai berikut kemudian klik tombol OK.
 - a. Name : Pendapatan

b. Formula := jumlah * harga (Pilih field jumlah kemudian klik Insert Field kemudian ketikkan tanda "*" dan masukkan field harga)



4. Field baru, "Sum of Pendapatan" akan muncul pada Pivot Table.

	Column Labels			Total Sum of jumlah	Total Sum of jumlah2	Total Sum of Pendapatan
3	2012					
4	Row Labels	Sum of jumlah	Sum of jumlah2	Sum of Pendapatan		
6	Bahan	8	8	2120000	8	8
7	Batik	1	1	150000	1	1
8	Celana	17	17	935000	17	17
9	Hem	4	4	1596000	4	4
10	Jam	44	44	3520000	44	44
11	Jarik	4	4	160000	4	4
12	kaos	14	14	420000	14	14
13	Rok	1	1	225000	1	1
14	Grand Total	93	93	115692000	93	115692000

Kegiatan 4 : Operasi Roll Up dan Drill Down

1. Buka Sheet1 (hasil pivot table) dan letakkan kursor pada area pivot table.
2. Pada kotak PivotTable Field List, hilangkan tanda cek pada field jumlah (field ini sementara tidak digunakan), dan beri tanda cek pada field (kolom) yang akan ditampilkan ke dalam cube.
3. Beri tanda cek dan letakkan field-field berikut pada kotak Row Labels atau Column Labels sesuai dengan kebutuhan tampilan cube. Urutan field dalam kotak ini menentukan urutan rincian kategori data. Field yang terletak pada urutan teratas merupakan field dengan kategori paling umum, sedangkan field yang terletak pada urutan terbawah adalah field dengan kategori paling spesifik (paling rinci).

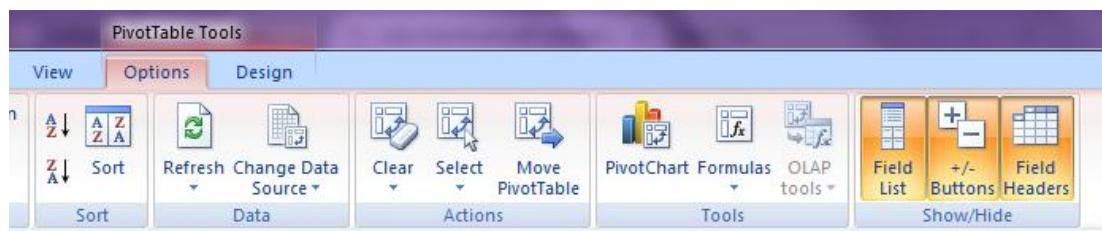
4. Misalkan pada Row Labels akan ditampilkan data berdasarkan urutan nama_kategori, nama_subkategori, dan nama_produk. Beri tanda cek pada field tersebut (bisa drag and drop) dan letakkan pada kotak Row Labels.

	Sum of Pendapatan	Column Labels	2010	2011	2012	Grand Total
Row Labels						
5 Batik			0	0	3825000	3825000
6 kaos			0	0	420000	420000
7 Kaos Batik Cap Lukis			0	0	420000	420000
8 Rok			0	0	225000	225000
9 Jam Standar Print Lukis			0	0	225000	225000
10 Beludru	500000		0	0	0	500000
11 Bahan	500000		0	0	0	500000
12 Bahan Beludru Cap Mahkota	500000		0	0	0	500000
13 Katun			0	520000	897000	3003000
14 Hem			0	210000	897000	2214000
15 Batik Standar Cap Tumpal			0	210000	0	210000
16 Bolero Standar Cap Sidomukti			0	0	897000	897000
17 kaos			0	60000	0	60000
18 Celana Standar Cap Warna			0	60000	0	60000
19 Lawasan			0	0	130000	130000
20 Standar	935000	18147500	41440000	41440000	181710000	181710000
21 Sutra	500000	0	0	0	0	500000
22 Hem	500000	0	0	0	0	500000
23 Hem Sutra Print Rama	500000	0	0	0	0	500000
24 Grand Total	15065000	25147500	115692000	115692000	424220500	424220500

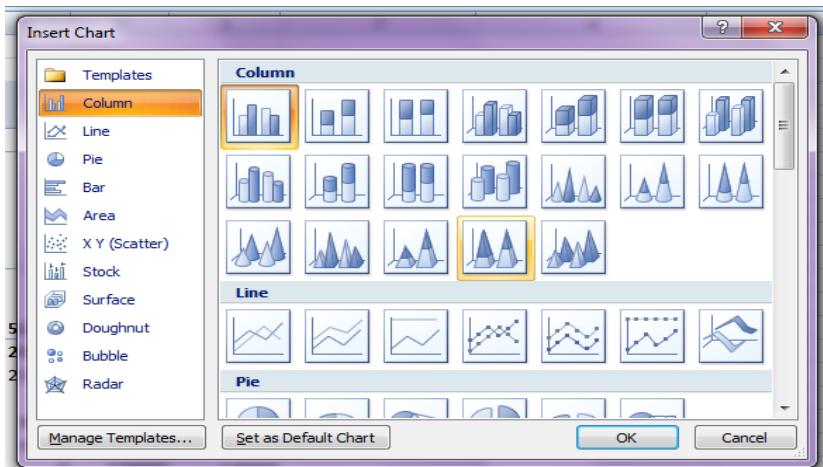
5. Klik tanda [-] untuk melakukan operasi Roll Up dan klik tanda [+] untuk melakukan operasi Drill Down.

Kegiatan 5 : Menggunakan Pivot Chart

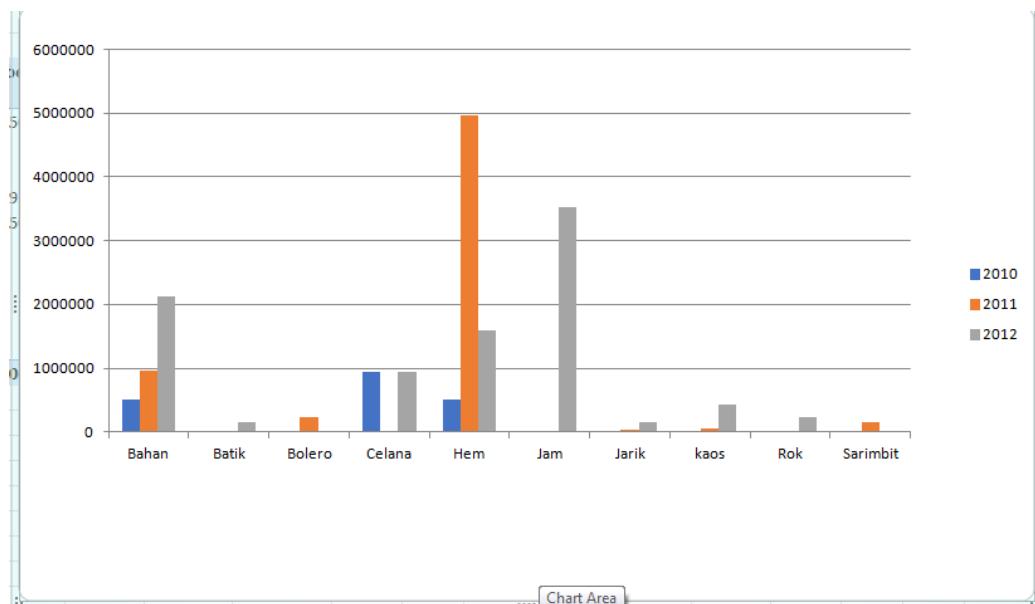
- Arahkan kursor pada area pivot table dalam Sheet1 (Hasil PivotTable).
- Pada menu Options, klik PivotChart.



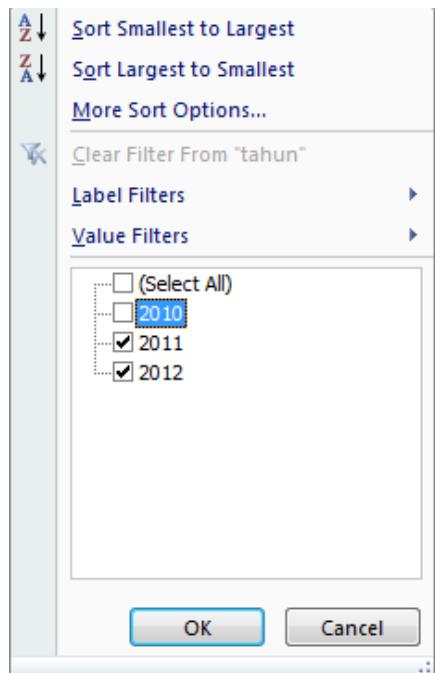
- Pada jendela Insert Chart, pilih bentuk grafik yang diinginkan.



- Jika grafik terlalu rinci, maka bisa dibuat secara lebih umum dengan menghilangkan kembali tanda cek pada field dalam PivotTable Field List. Misalkan hilangkan tanda cek pada field nama_produk, nama_kategori, dan bulan.

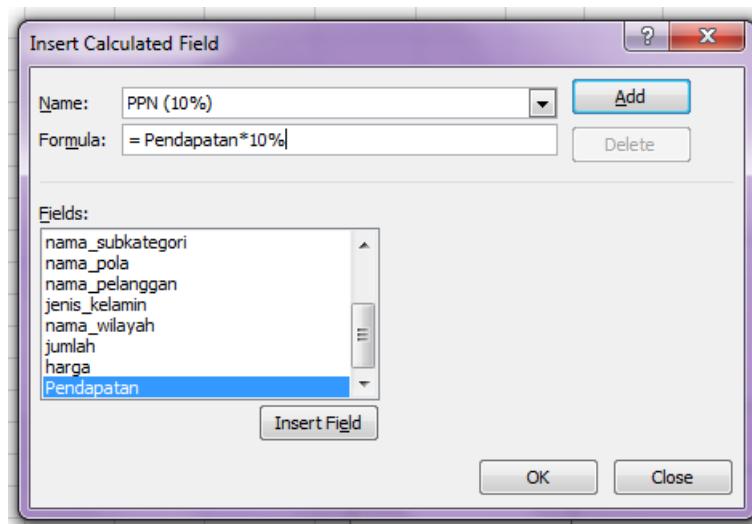


- Dengan melihat grafik PivotChart, pola transaksi dari kuartal pertama hingga kuartal keempat dapat dilihat dengan mudah apakah terjadi kenaikan, penurunan atau stabil untuk masing-masing kategori produk.
- Jendela PivotChart Filter Pane berfungsi untuk menyaring (filter) data-data khusus yang akan ditampilkan saja.

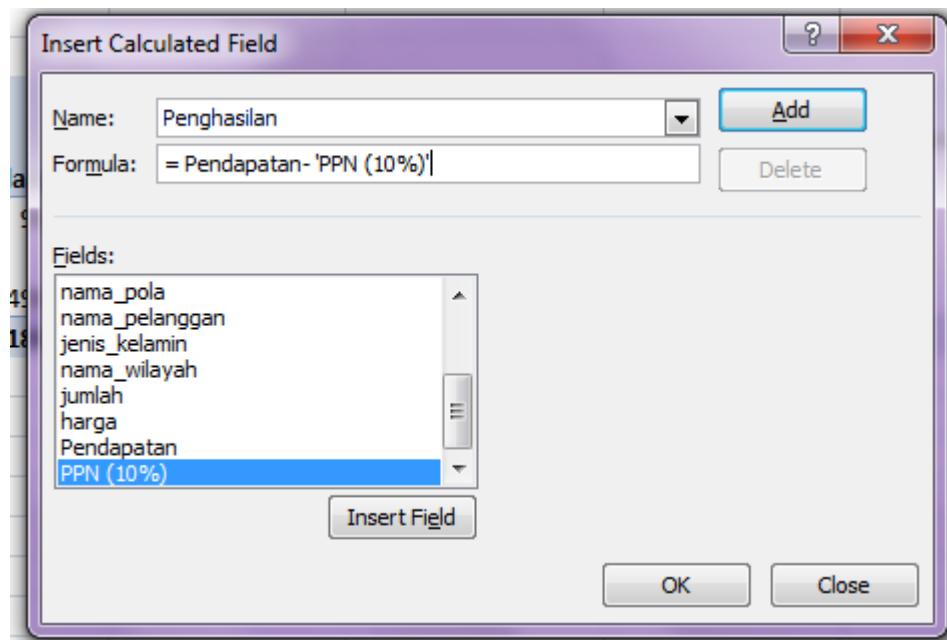


Tugas

1. Dengan menggunakan PivotTable pada file Fakta_Penjualan.xls tambahkan 2 buah field, yaitu :
 - a. PPN (Pajak Pertambahan Nilai) sebesar 10% dari tiap pendapatan pada Pivot Table.



- b. Total Penghasilan yang dihitung dari pendapatan dikurangi dengan PPN tersebut.



2. Buatlah PivotTable dan PivotChart untuk melihat PPN dan Total Penghasilan tersebut selama tahun 2010 – 2012. Subkategori produk apakah yang memberikan nilai penghasilan terbanyak selama 3 tahun tersebut?

Pivot Table

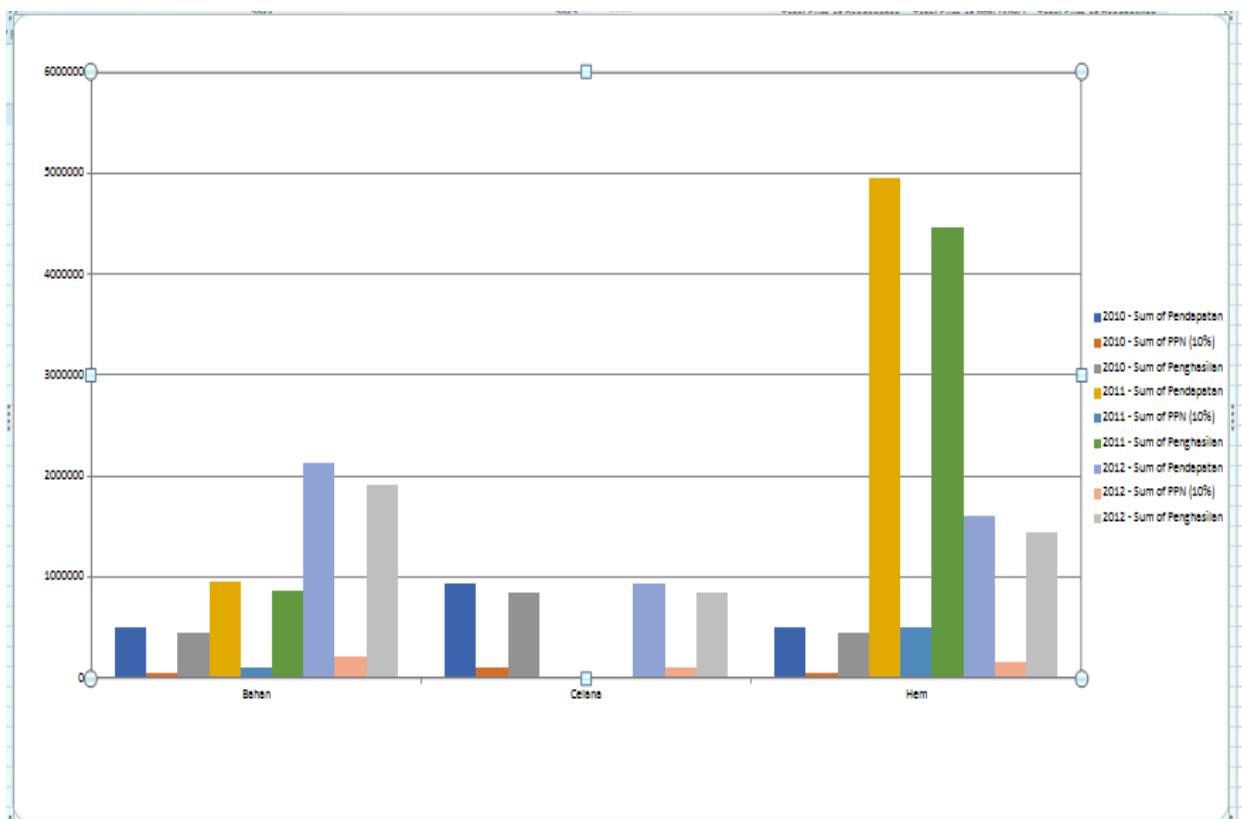
	Column Labels			Total Sum of Pendapatan	Total Sum of PPN (10%)	Total Sum of Penghasilan
	2010					
Row Labels	Sum of Pendapatan	Sum of PPN (10%)	Sum of Penghasilan			
Bahan	500000	50000	450000	500000	50000	450000
Celana	935000	93500	841500	935000	93500	841500
Hem	500000	50000	450000	500000	50000	450000
Grand Total	15065000	1506500	13558500	15065000	1506500	13558500

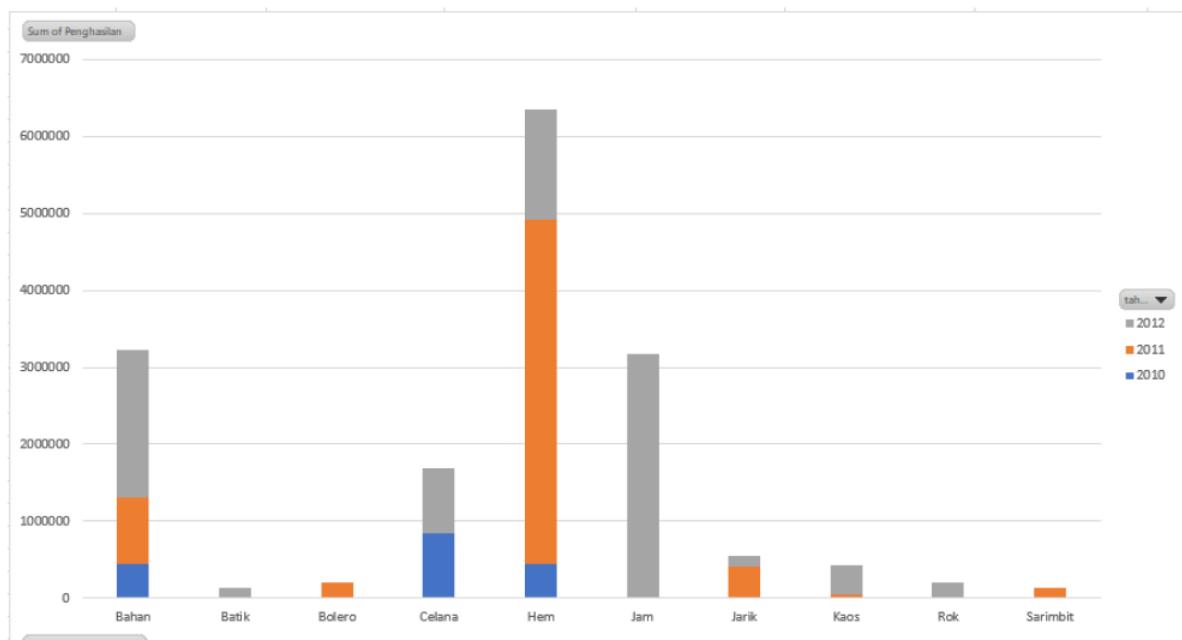
	Column Labels			Total Sum of Pendapatan	Total Sum of PPN (10%)	Total Sum of Penghasilan
	2011					
Row Labels	Sum of Pendapatan	Sum of PPN (10%)	Sum of Penghasilan			
Bahan	960000	96000	864000	960000	96000	864000
Hem	4960000	496000	4464000	4960000	496000	4464000
Grand Total	11840000	1184000	10656000	11840000	1184000	10656000

	Column Labels			Total Sum of Pendapatan	Total Sum of PPN (10%)	Total Sum of Penghasilan
	2012					
Row Labels	Sum of Pendapatan	Sum of PPN (10%)	Sum of Penghasilan			
Bahan	2120000	212000	1908000	2120000	212000	1908000
Celana	935000	93500	841500	935000	93500	841500
Hem	1596000	159600	1436400	1596000	159600	1436400
Grand Total	20851000	2085100	18765900	20851000	2085100	18765900

	Column Labels											
	2010			2011			2012			Total Sum of Pendapatan	Total Sum of PPN (10%)	Total Sum of Penghasilan
Row Labels	Sum of Pendapatan	Sum of PPN (10%)	Sum of Penghasilan	Sum of Pendapatan	Sum of PPN (10%)	Sum of Penghasilan	Sum of Pendapatan	Sum of PPN (10%)	Sum of Penghasilan			
Bahan	500000	50000	450000	950000	95000	854000	2120000	212000	1908000	1504500	1204500	13540500
Celana	930000	93000	841300	0	0	0	930000	93000	841300	3740000	374000	3366000
Hem	500000	50000	450000	4950000	495000	4464000	1596000	159600	1436400	19023000	1902300	17120700
Grand Total	15065000	1506500	13553500	11340000	1134000	10656000	20851000	2085100	18765900	14375200	14375200	129376800

Pivot Chart





Subkategori produk yang memberikan nilai penghasilan terbanyak selama 3 tahun tersebut adalah Hem

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Kelas : C

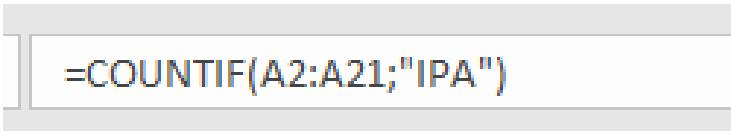
TUGAS

1. Tabel Data Excel

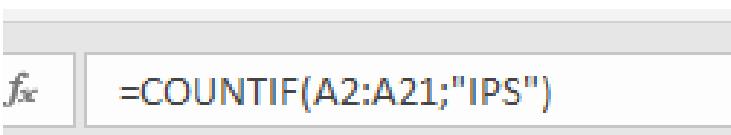
Jurusan_SMA	Gender	Asal_Sekolah	Rerata_SKS	Asisten	Lama_Studi
IPS	WANITA	SURAKARTA	18	TIDAK	TERLAMBAT
IPA	PRIA	SURAKARTA	19	YA	TEPAT
LAIN	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT
IPA	PRIA	LUAR	17	TIDAK	TERLAMBAT
IPA	WANITA	SURAKARTA	17	TIDAK	TEPAT
IPA	WANITA	LUAR	18	YA	TEPAT
IPA	PRIA	SURAKARTA	18	TIDAK	TERLAMBAT
IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT
IPS	PRIA	LUAR	18	TIDAK	TERLAMBAT
LAIN	WANITA	SURAKARTA	18	TIDAK	TEPAT
IPA	WANITA	SURAKARTA	19	TIDAK	TEPAT
IPS	PRIA	SURAKARTA	20	TIDAK	TEPAT
IPS	PRIA	SURAKARTA	19	TIDAK	TEPAT
IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT
IPA	PRIA	LUAR	22	YA	TEPAT
LAIN	PRIA	SURAKARTA	16	TIDAK	TERLAMBAT
IPS	PRIA	LUAR	20	TIDAK	TEPAT
LAIN	PRIA	LUAR	23	YA	TEPAT
IPA	PRIA	SURAKARTA	21	YA	TEPAT
IPS	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT

2. Dengan menggunakan formula dalam Ms. Excel, carilah:

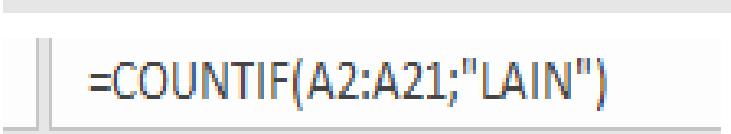
- a. Pada atribut Jurusan_SMA, berapa jumlah data masing-masing kelas IPA, IPS dan LAIN?(gunakan formula =COUNTIF)



=COUNTIF(A2:A21;"IPA")



=COUNTIF(A2:A21;"IPS")



=COUNTIF(A2:A21;"LAIN")

IPA	10
IPS	6
LAIN	4

b. Pada atribut Lama_Studi, berapa jumlah data masing-masing kelas TEPAT, TERLAMBAT?

=COUNTIF(F2:F21;"TEPAT")

=COUNTIF(F2:F21;"TERLAMBAT")

TEPAT	13
TERLAMBAT	7

c. Pada Atribut Rerata_SKS,L berapa nilai Max, Min, Mean dan Standar Deviation?

=MAX(D2:D21)

=MIN(D2:D21)

=AVERAGE(D2:D21)

```
=STDEV.S(D2:D21)
```

MAX	23
MIN	16
MEAN	18,95
STANDAR DEVIATION	1,669384

d. Pada tabel tersebut , berapakah jumlah data gabungan :

```
=COUNTIFS(A2:A21;"IPA";B2:B21;"PRIA";E2:E21;"YA";F2:F21;"TEPAT")
```

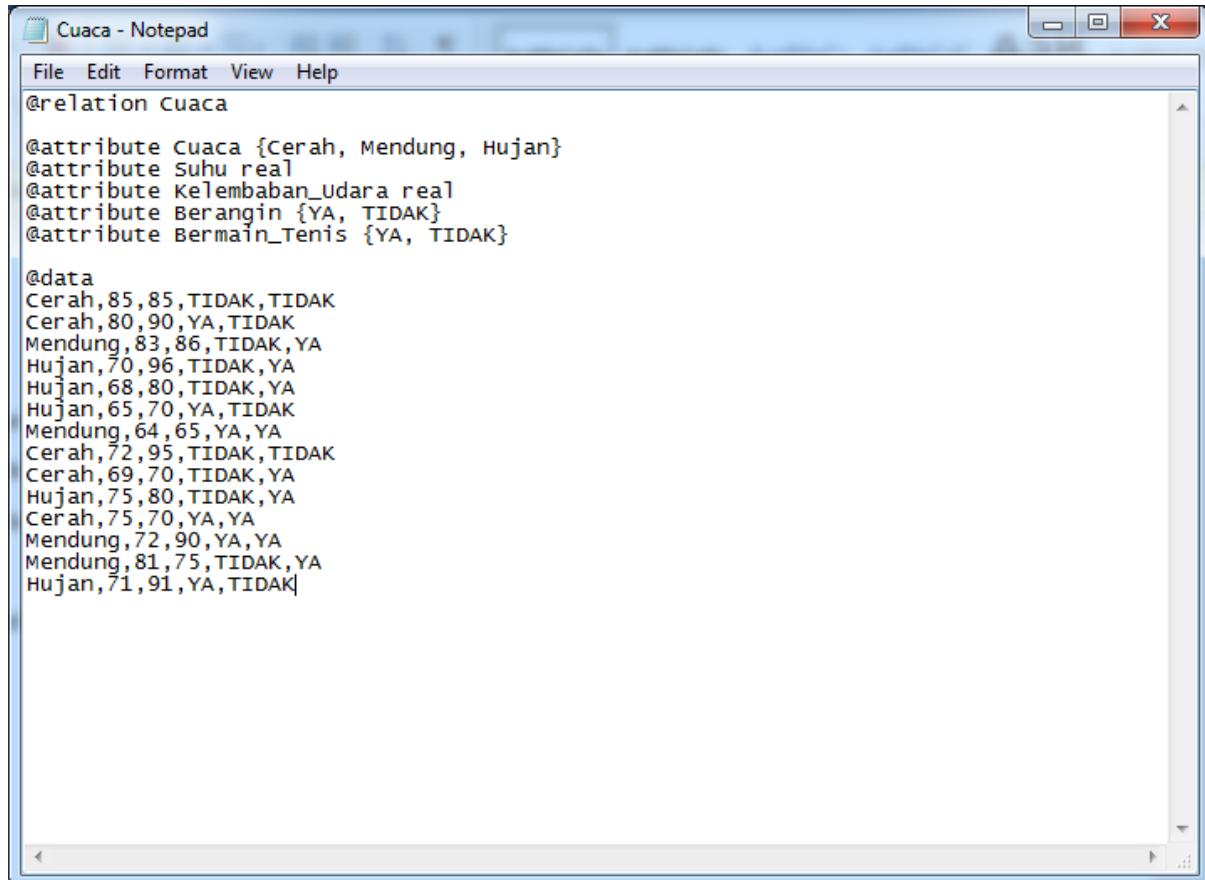
NO. 2D	3
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Kelas : C

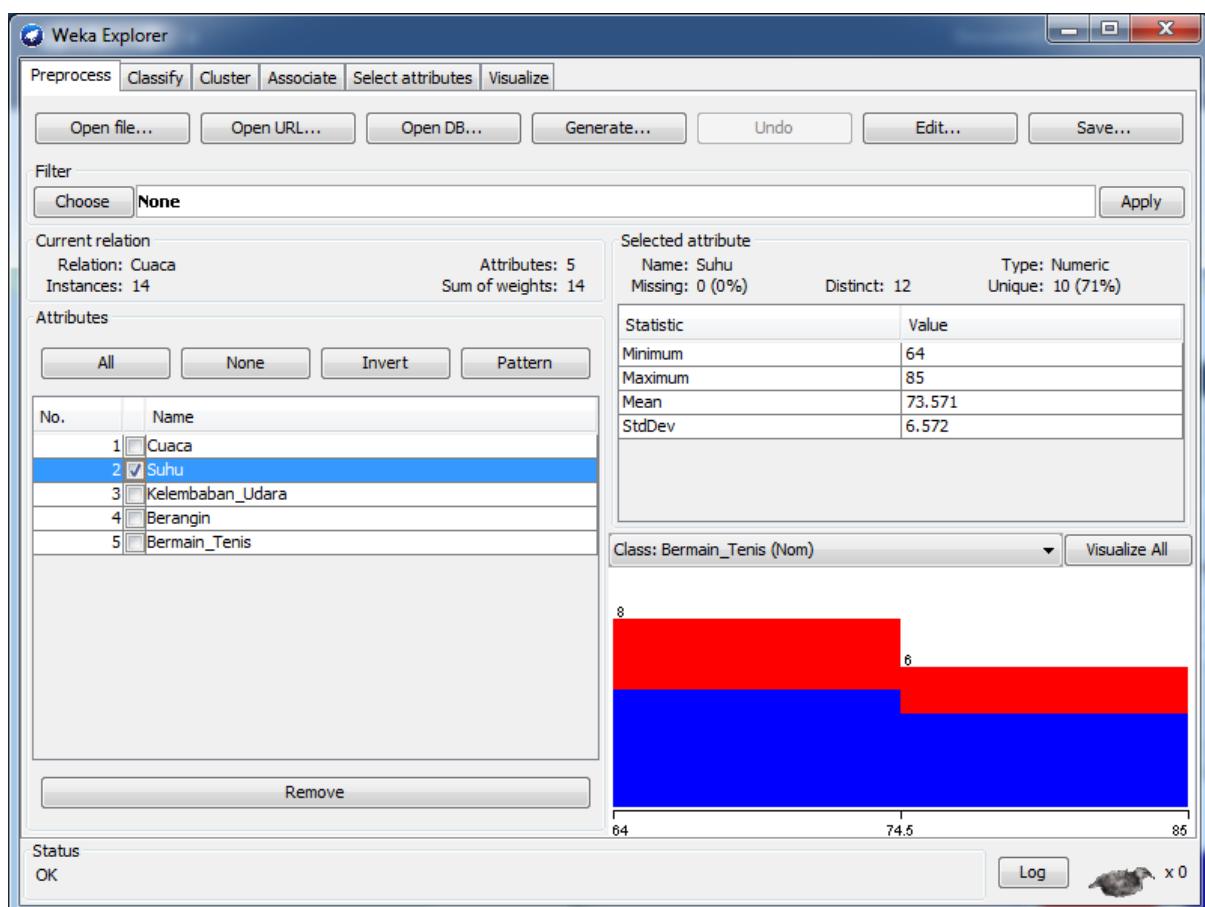
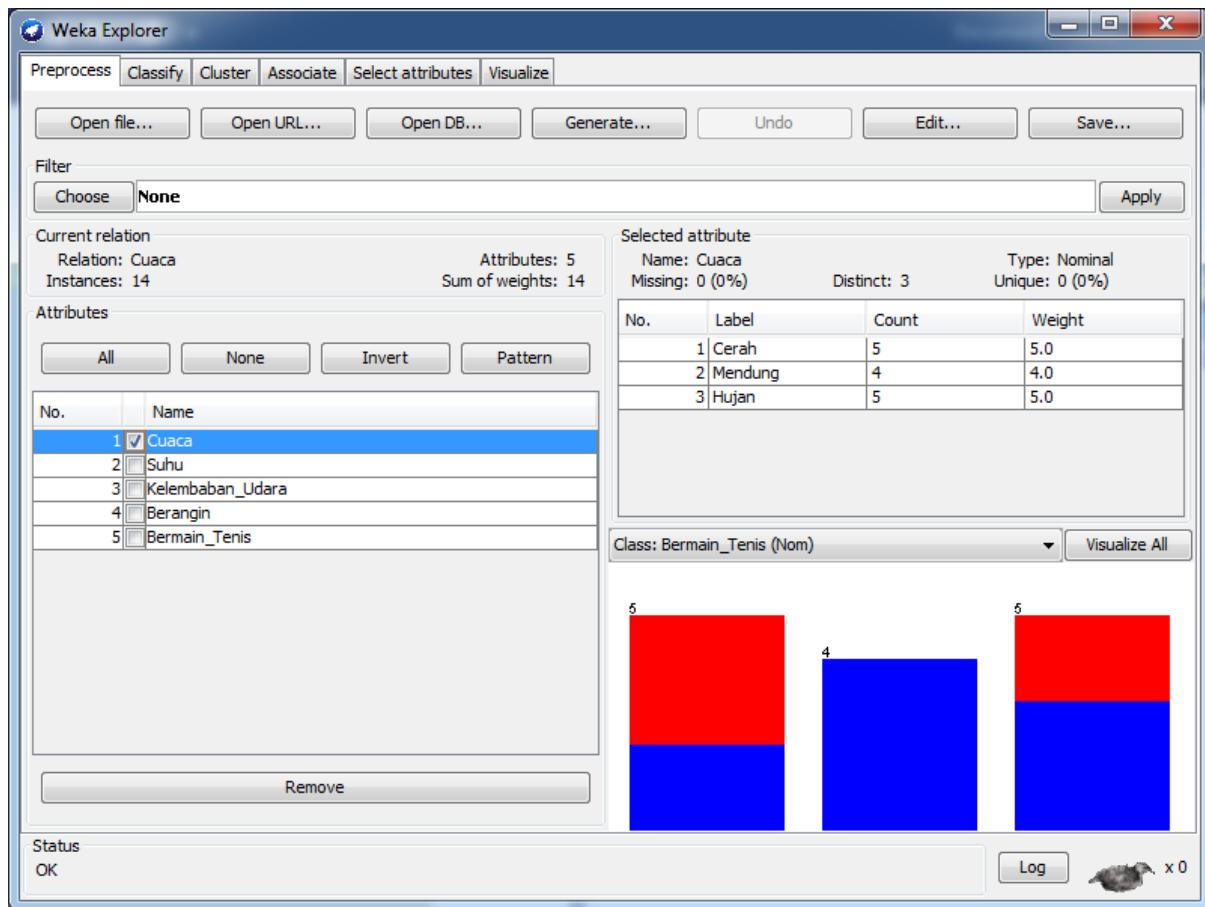
Latihan :

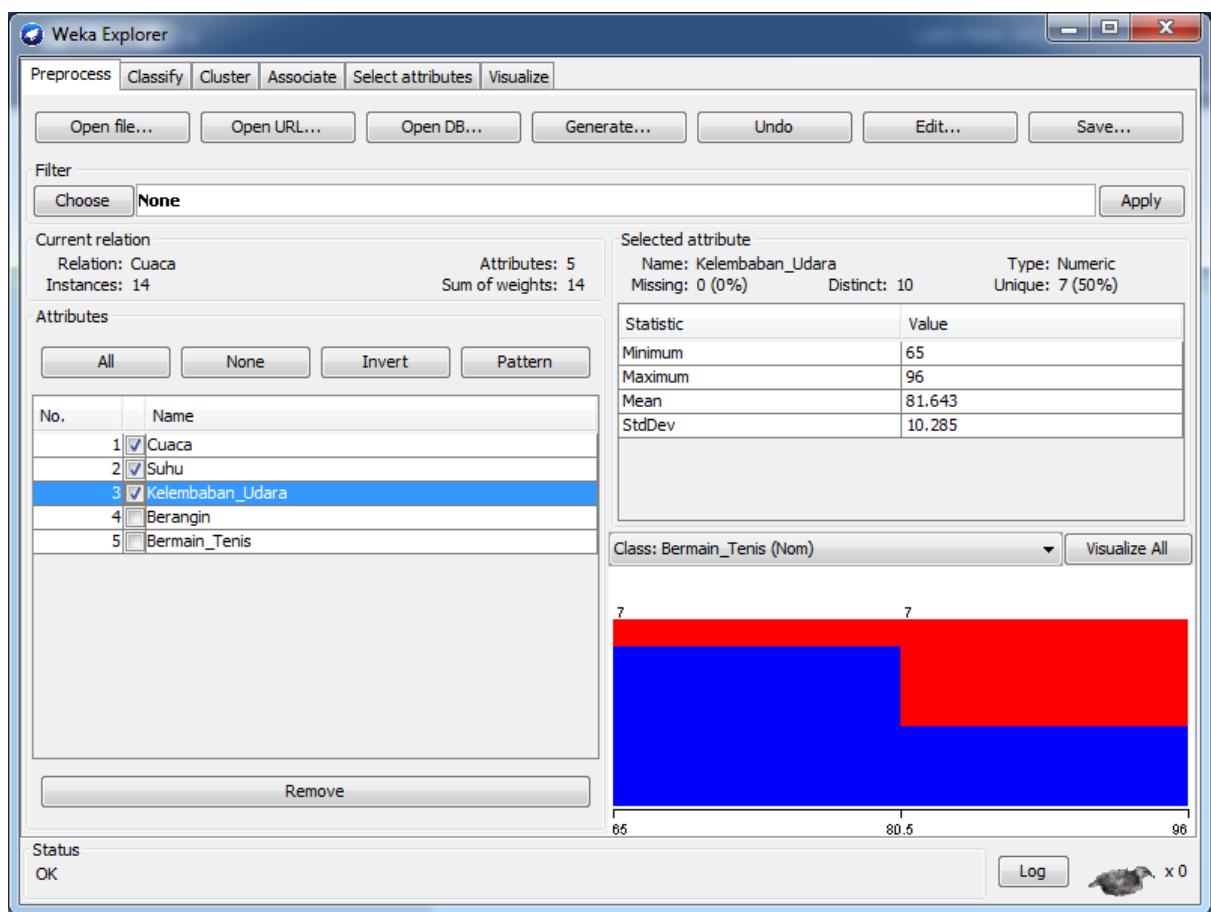


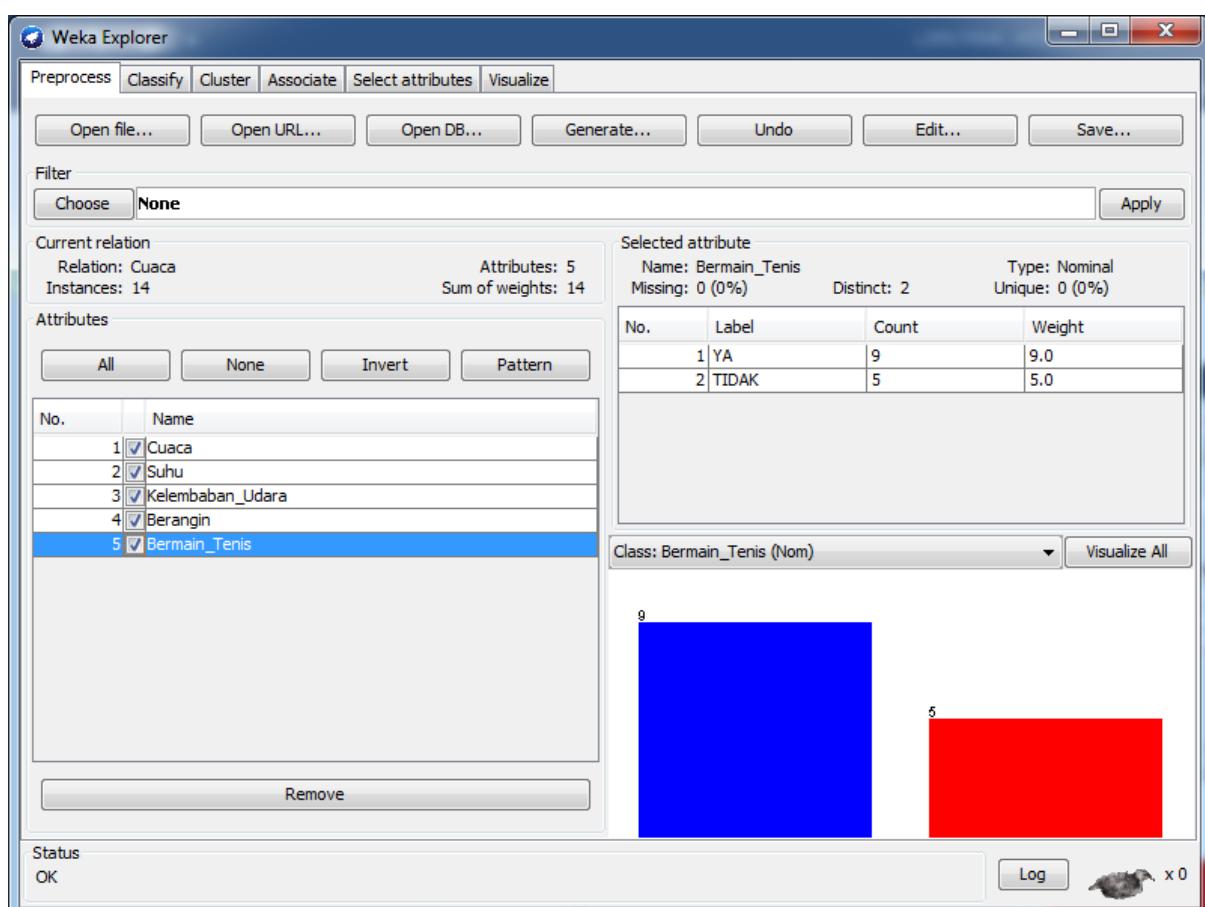
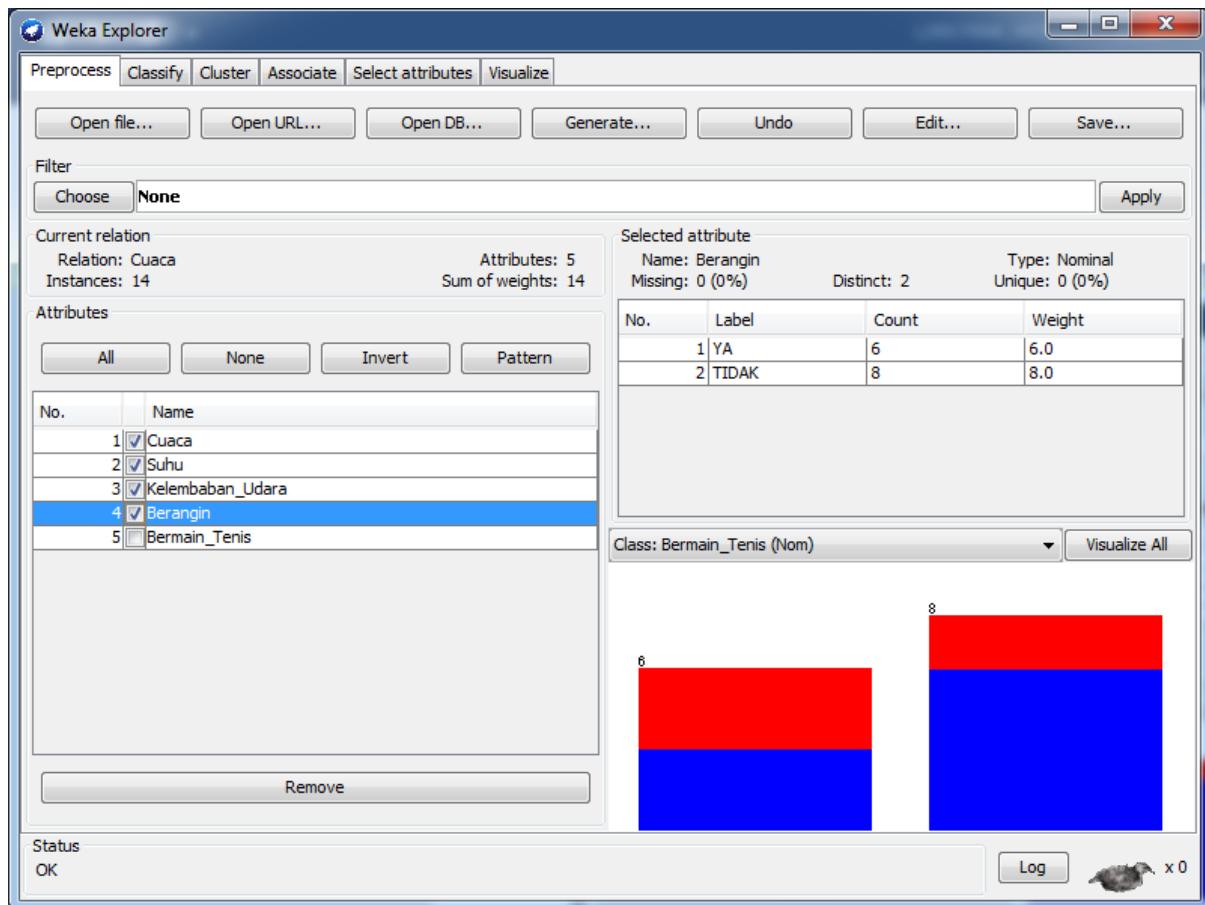
The screenshot shows a Windows Notepad window titled "Cuaca - Notepad". The window contains the following text:

```
@relation Cuaca
@attribute Cuaca {cerah, Mendung, Hujan}
@attribute Suhu real
@attribute Kelembaban_udara real
@attribute Berangin {YA, TIDAK}
@attribute Bermain_Tenis {YA, TIDAK}

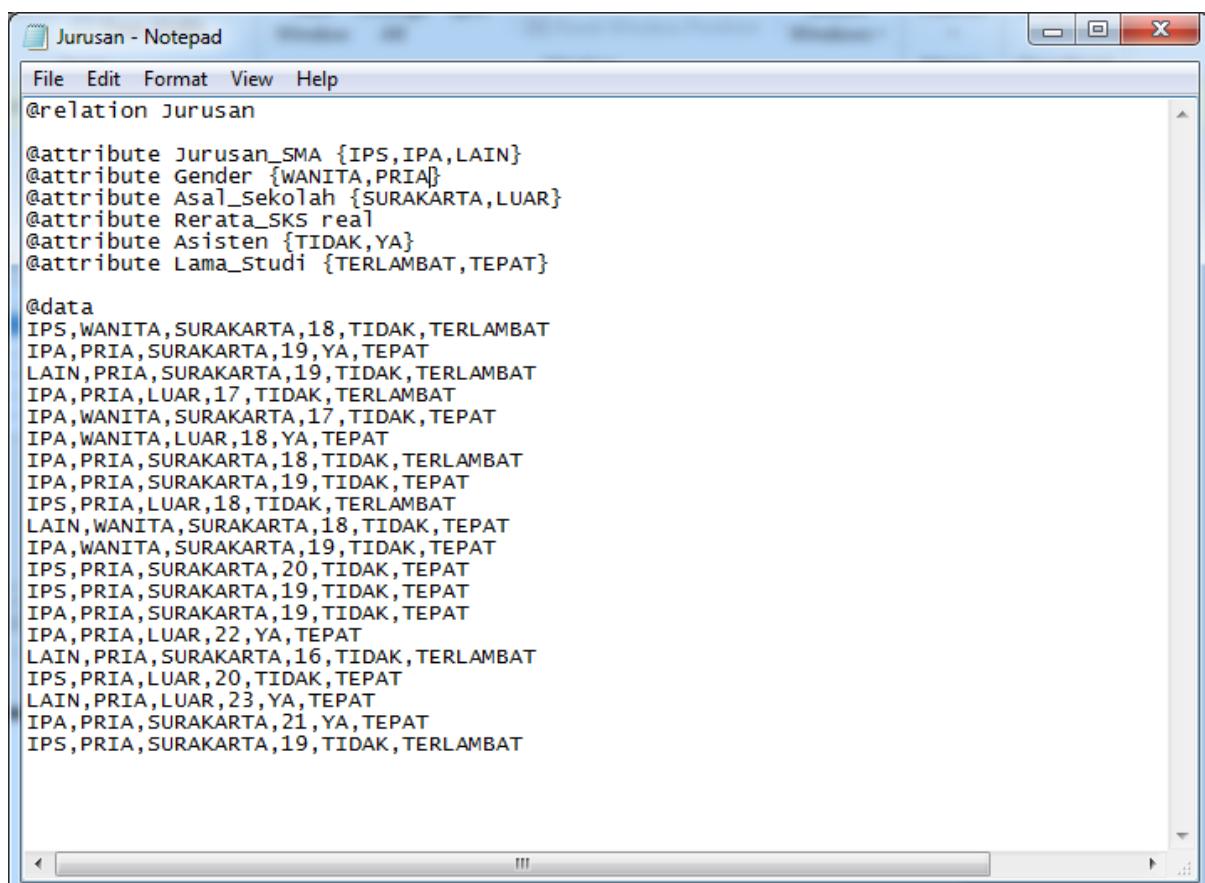
@data
Cerah,85,85,TIDAK,TIDAK
Cerah,80,90,YA,TIDAK
Mendung,83,86,TIDAK,YA
Hujan,70,96,TIDAK,YA
Hujan,68,80,TIDAK,YA
Hujan,65,70,YA,TIDAK
Mendung,64,65,YA,YA
Cerah,72,95,TIDAK,TIDAK
Cerah,69,70,TIDAK,YA
Hujan,75,80,TIDAK,YA
Cerah,75,70,YA,YA
Mendung,72,90,YA,YA
Mendung,81,75,TIDAK,YA
Hujan,71,91,YA,TIDAK|
```







TUGAS:



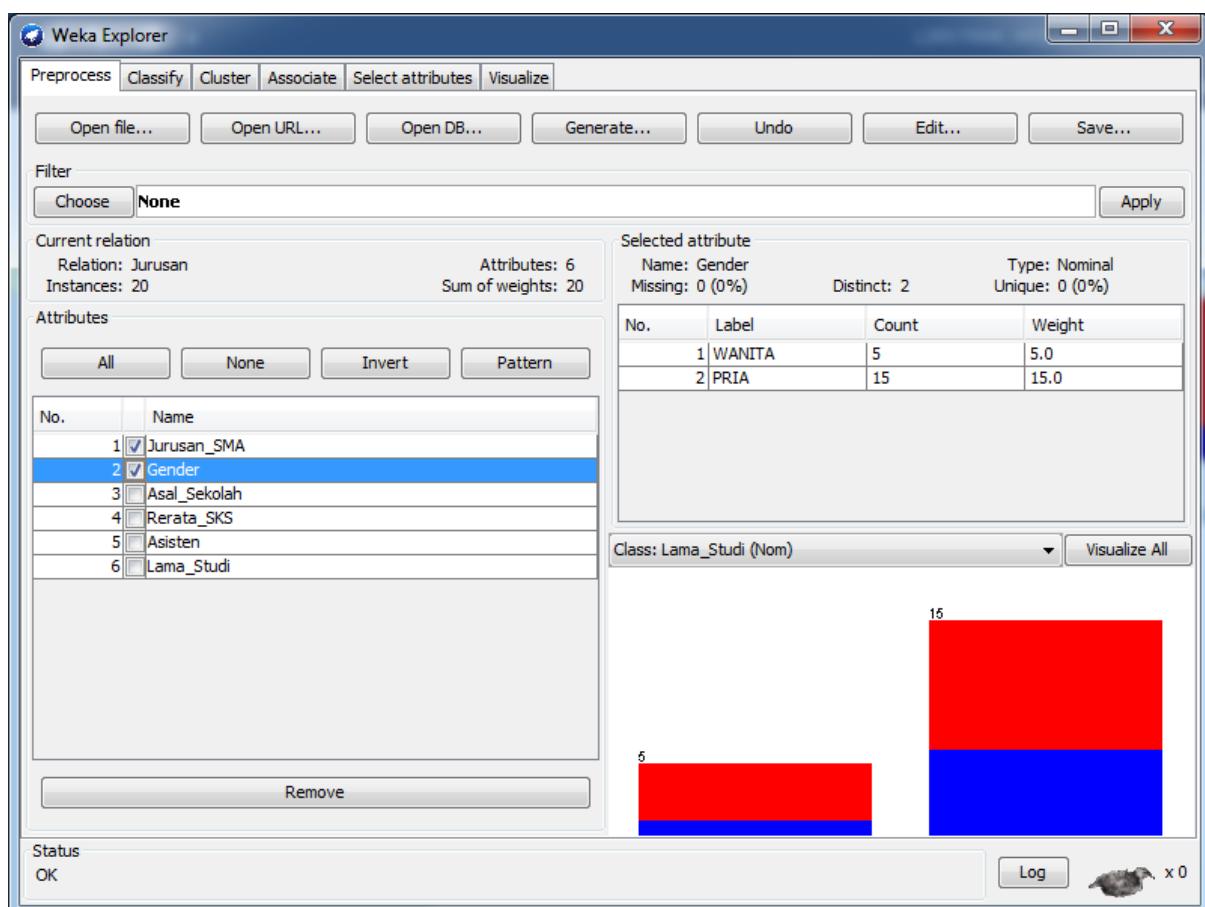
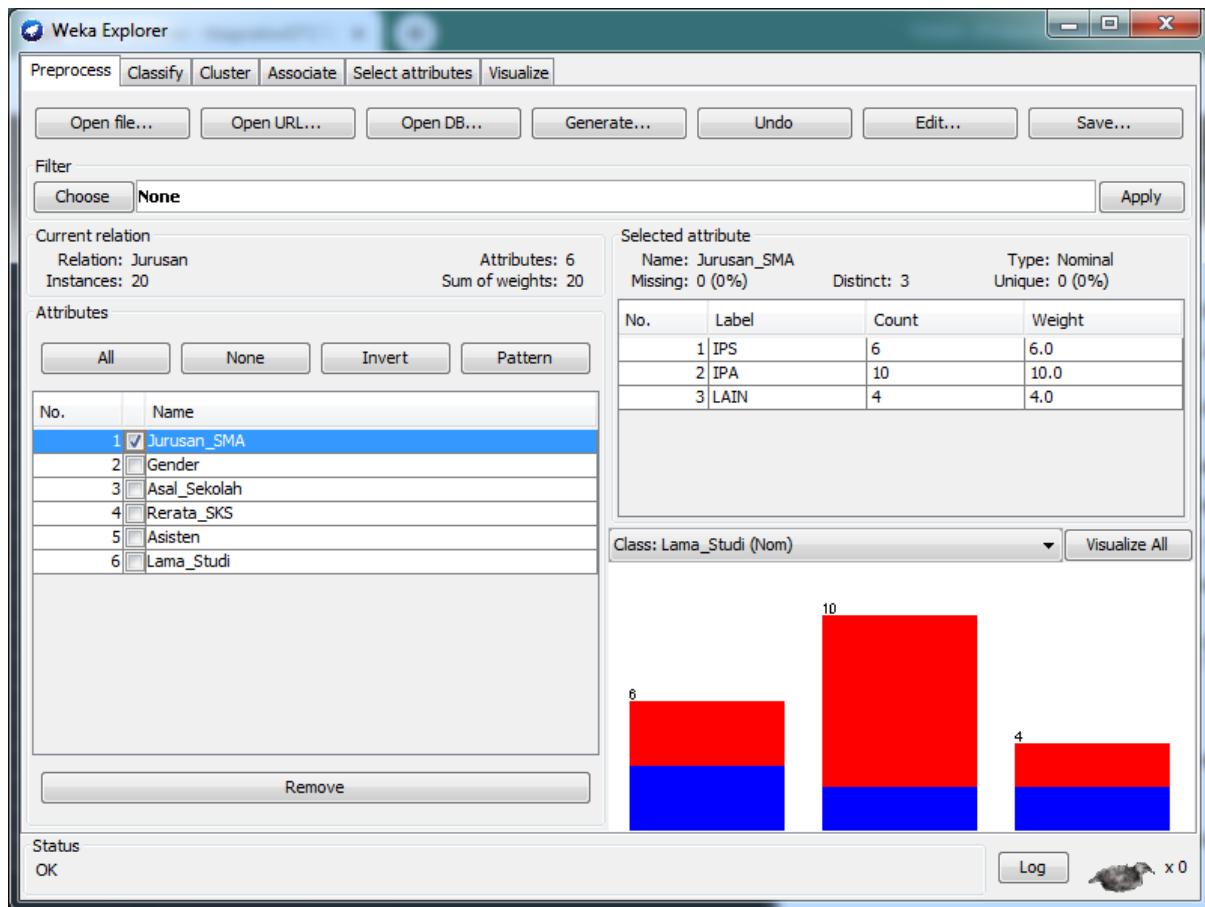
Jurusan - Notepad

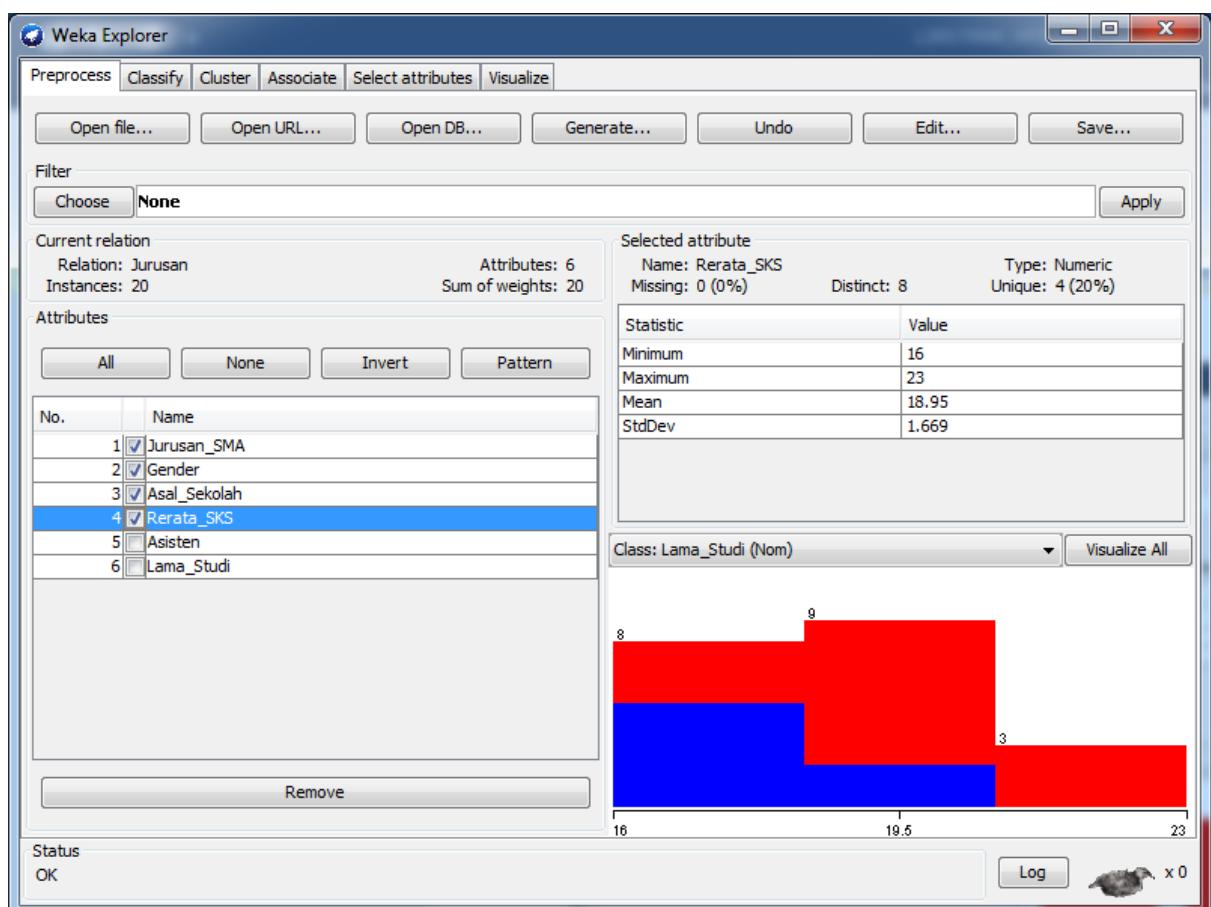
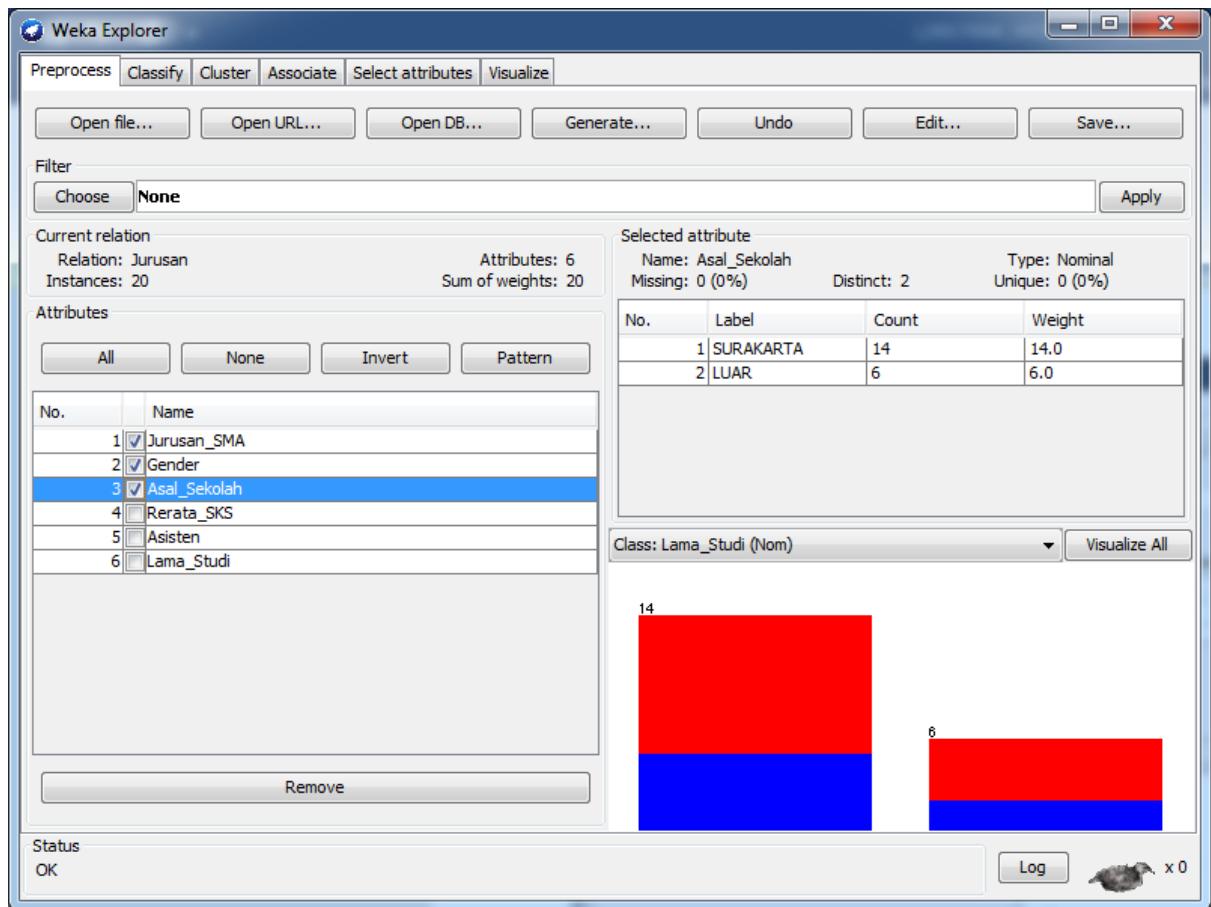
File Edit Format View Help

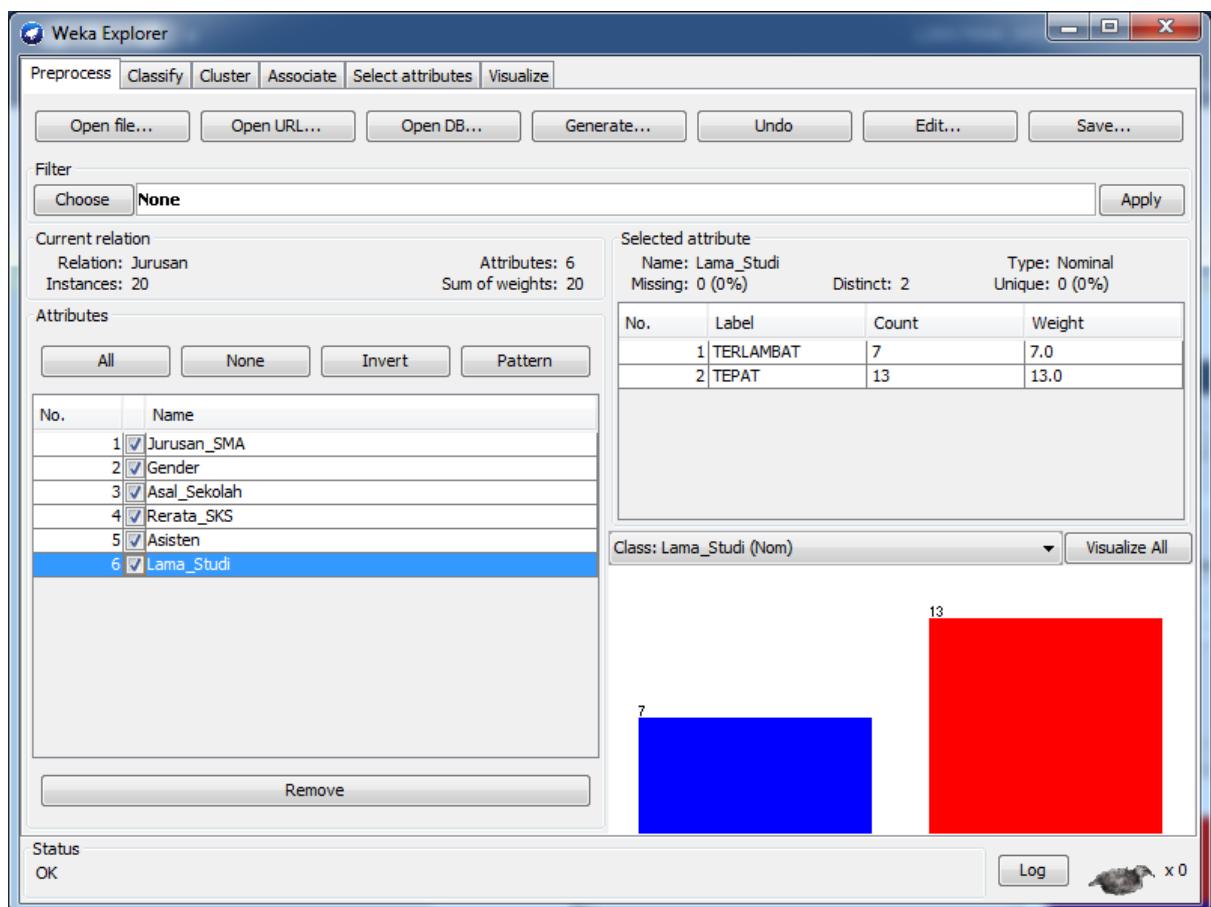
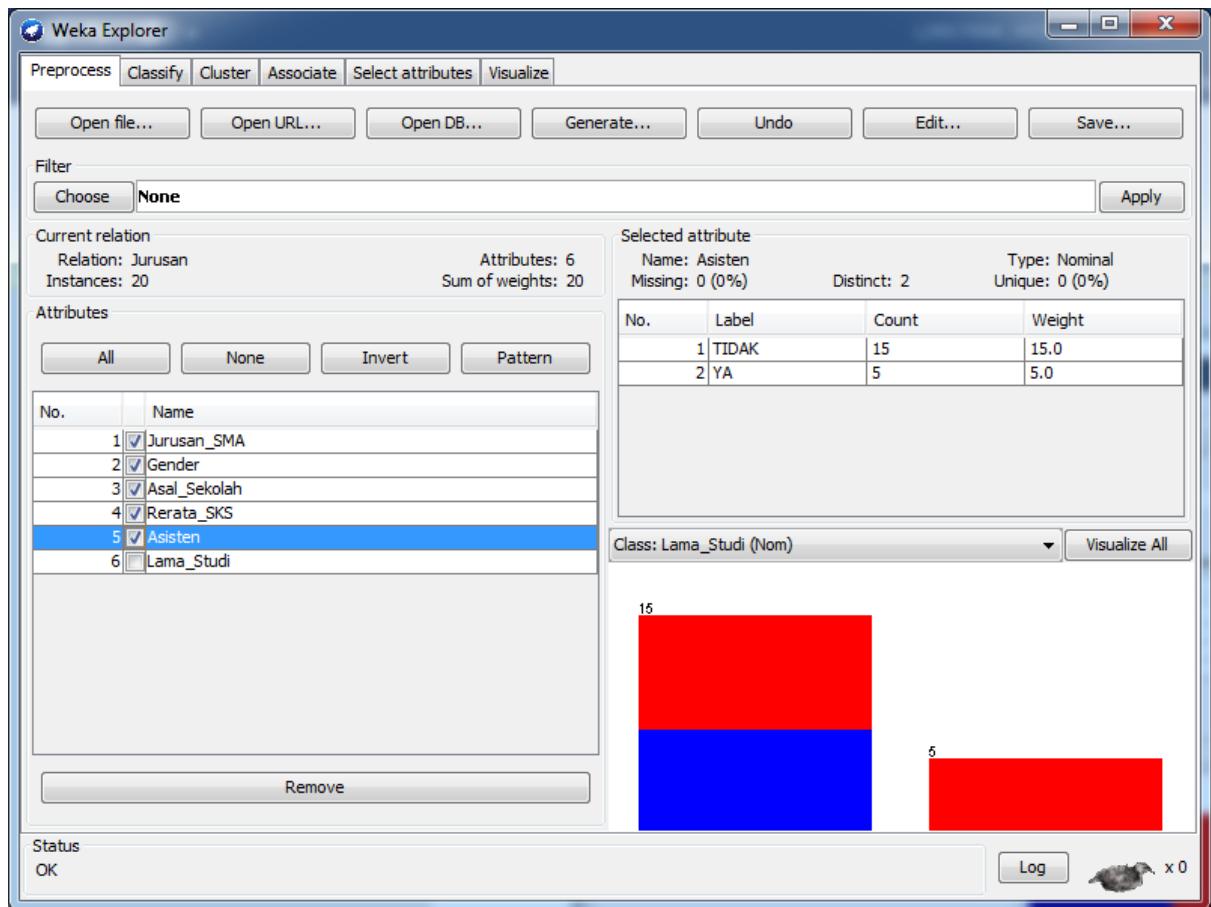
```
@relation Jurusan

@attribute Jurusan_SMA {IPS,IPA,LAIN}
@attribute Gender {WANITA,PRIA}
@attribute Asal_Sekolah {SURAKARTA,LUAR}
@attribute Rerata_SKS real
@attribute Asisten {TIDAK,YA}
@attribute Lama_Studi {TERLAMBAT,TEPAT}

@data
IPS,WANITA,SURAKARTA,18,TIDAK,TERLAMBAT
IPA,PRIA,SURAKARTA,19,YA,TEPAT
LAIN,PRIA,SURAKARTA,19,TIDAK,TERLAMBAT
IPA,PRIA,LUAR,17,TIDAK,TERLAMBAT
IPA,WANITA,SURAKARTA,17,TIDAK,TEPAT
IPA,WANITA,LUAR,18,YA,TEPAT
IPA,PRIA,SURAKARTA,18,TIDAK,TERLAMBAT
IPA,PRIA,SURAKARTA,19,TIDAK,TEPAT
IPS,PRIA,LUAR,18,TIDAK,TERLAMBAT
LAIN,WANITA,SURAKARTA,18,TIDAK,TEPAT
IPA,WANITA,SURAKARTA,19,TIDAK,TEPAT
IPS,PRIA,SURAKARTA,20,TIDAK,TEPAT
IPS,PRIA,SURAKARTA,19,TIDAK,TEPAT
IPA,PRIA,SURAKARTA,19,TIDAK,TEPAT
IPA,PRIA,LUAR,22,YA,TEPAT
LAIN,PRIA,SURAKARTA,16,TIDAK,TERLAMBAT
IPS,PRIA,LUAR,20,TIDAK,TEPAT
LAIN,PRIA,LUAR,23,YA,TEPAT
IPA,PRIA,SURAKARTA,21,YA,TEPAT
IPS,PRIA,SURAKARTA,19,TIDAK,TERLAMBAT
```







4. Binomial : nilai data hanya ada 2 kemungkinan

- Terdapat 4 attribute binomial

Polynomial : nilai data lebih dari 2 kemungkinan

- Terdapat 1 attribute polynomial

5. Terdapat 1 attribute bertipe real

6. Rerata_SKS :

- Maximum : 16
- Minimum : 23
- Mean : 18,95
- StdDev : 1,669

Nama : Tika Pratiwi

NIM : L200170046

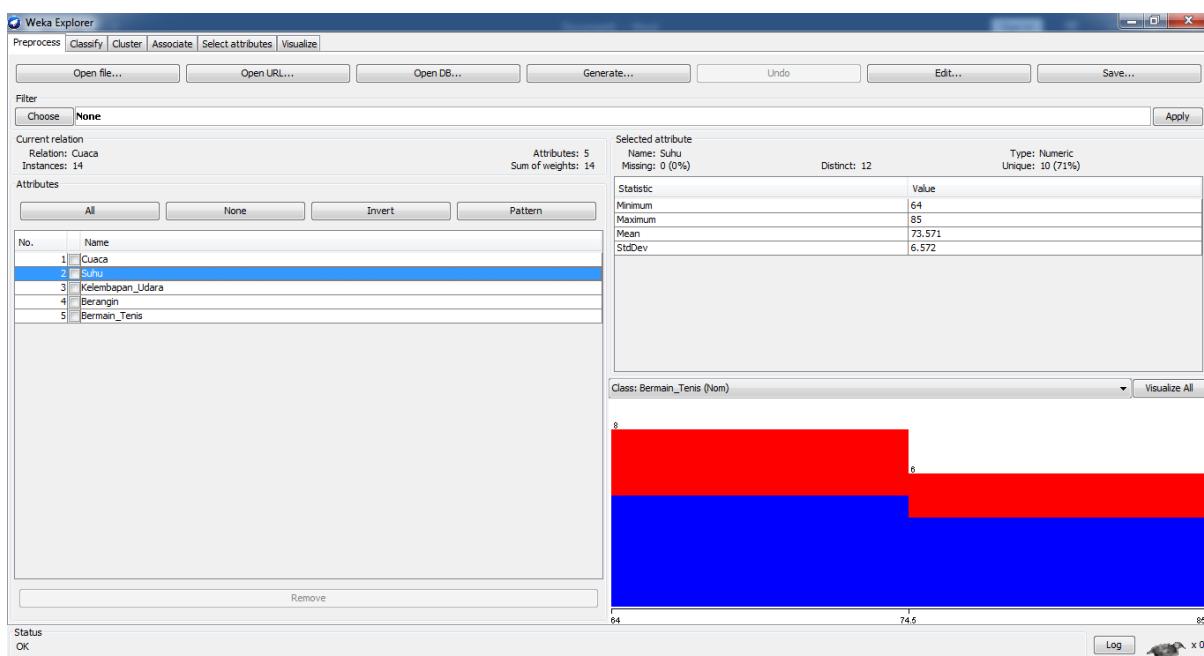
Kelas : C

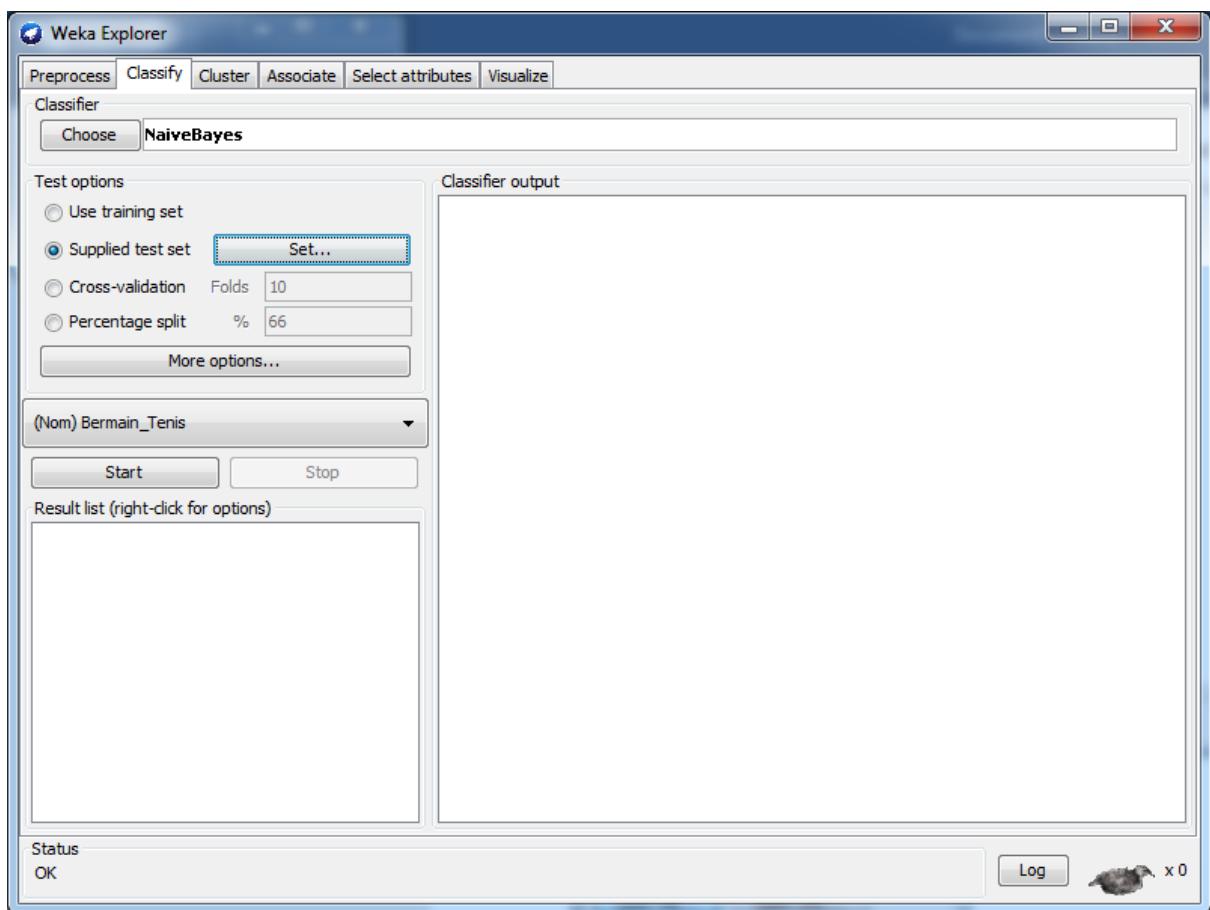
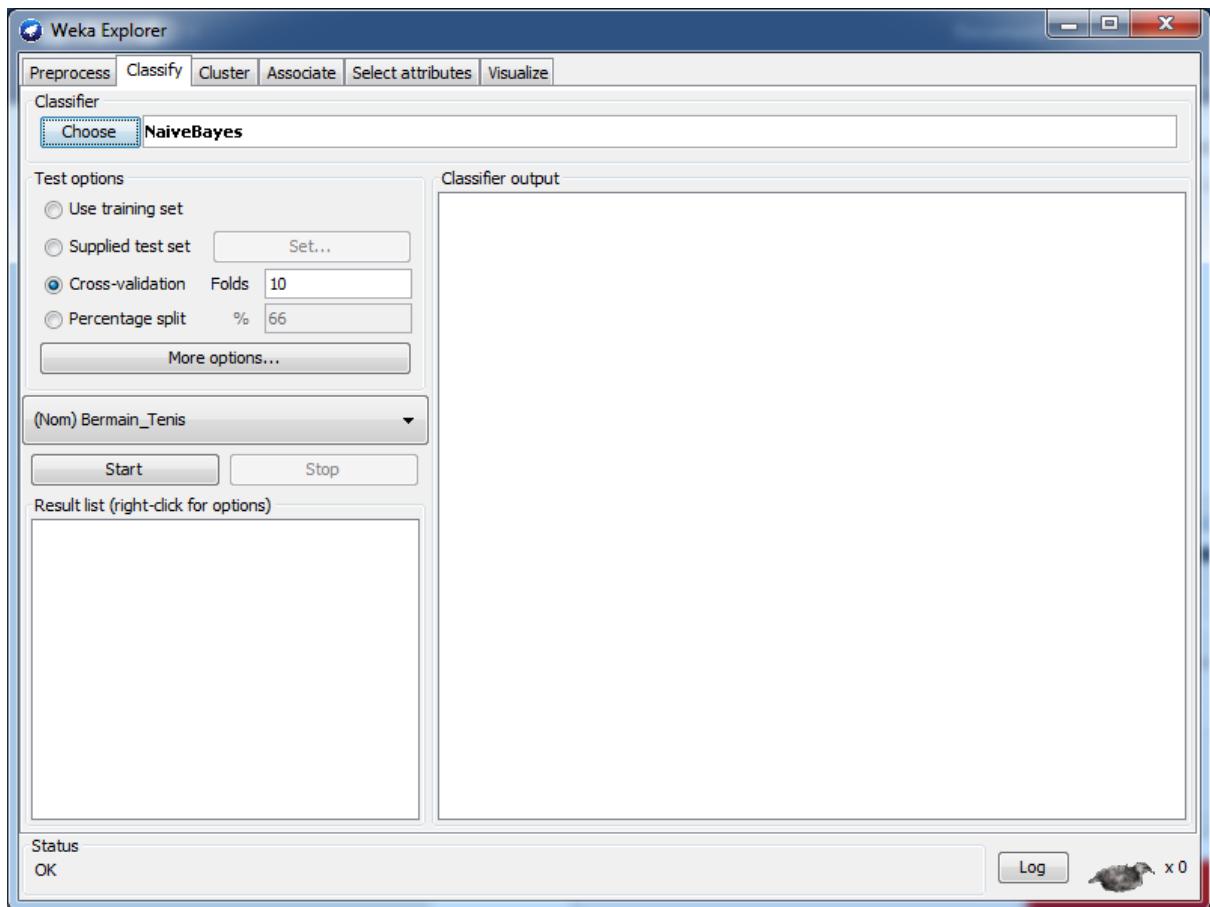
LANGKAH-LANGKAH PRAKTIKUM

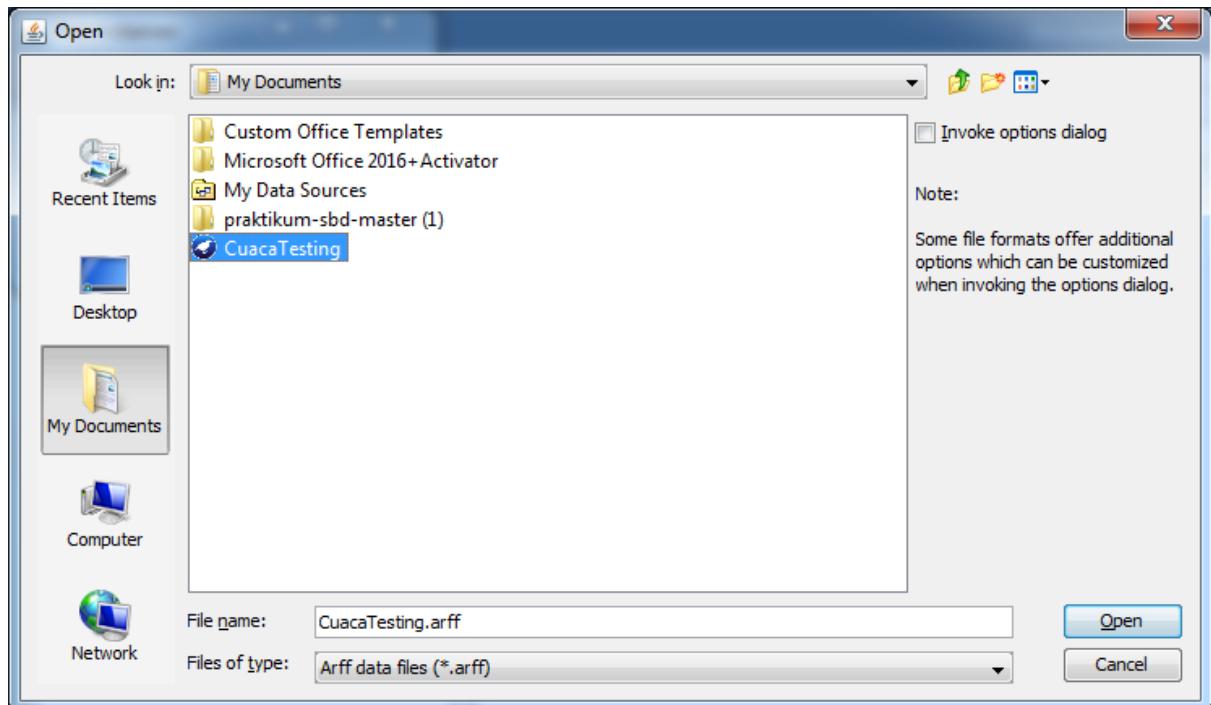
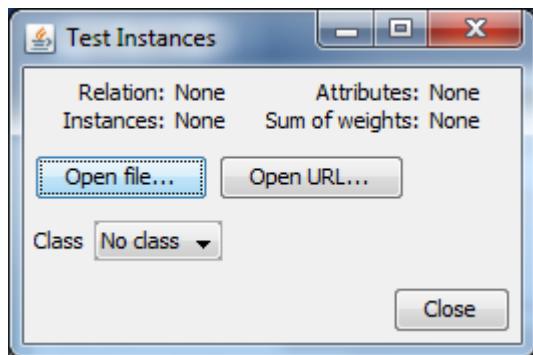
- File CuacaTesting.arff

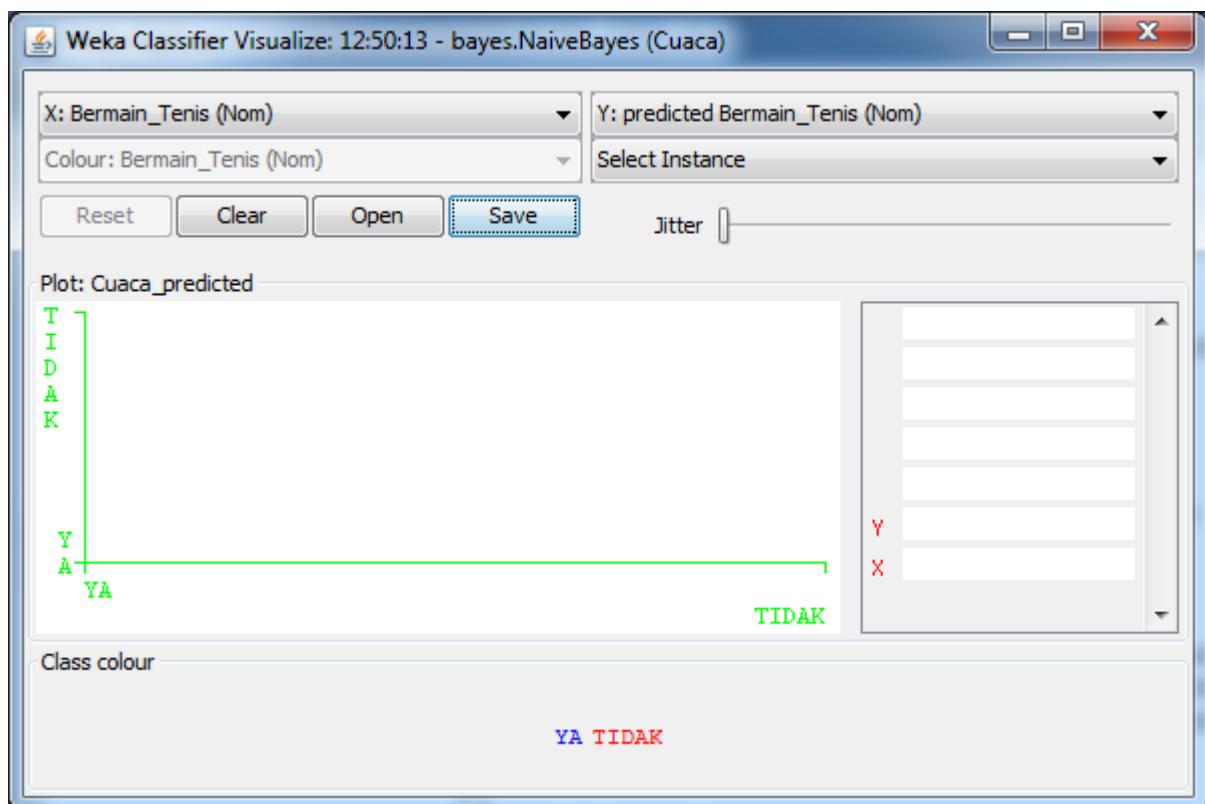
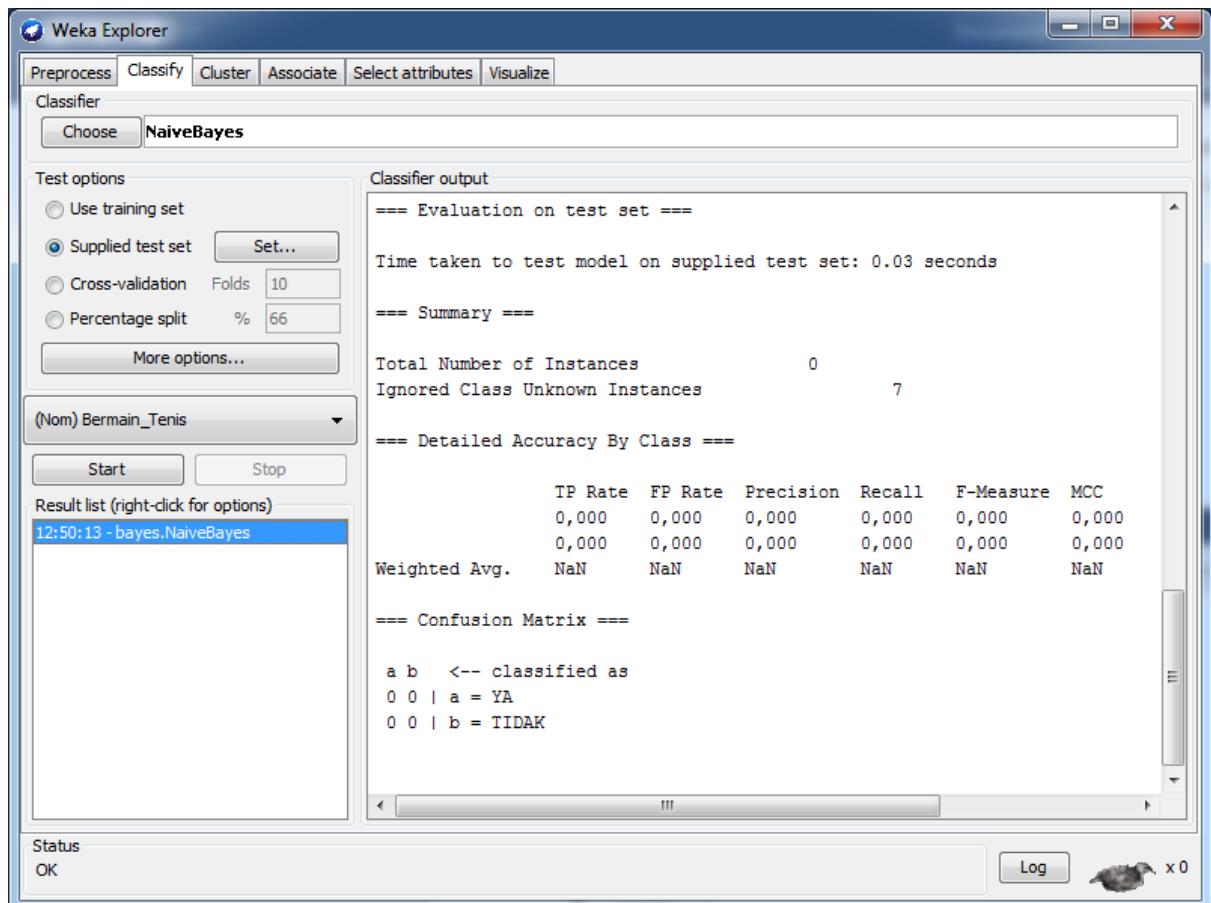
```
CuacaTesting - Notepad
File Edit Format View Help
@relation CuacaTesting
@attribute Cuaca {cerah, Mendung, Hujan}
@attribute Suhu real
@attribute Kelembapan_udara real
@attribute Berangin {YA, TIDAK}
@attribute Bermain_Tenis {YA, TIDAK}

@data
Cerah,75,65,TIDAK,?
Cerah,80,68,YA,?
Cerah,83,87,YA,?
Mendung,70,96,TIDAK,?
Mendung,68,81,TIDAK,?
Hujan,65,75,YA,?
Hujan,64,85,YA,?
```







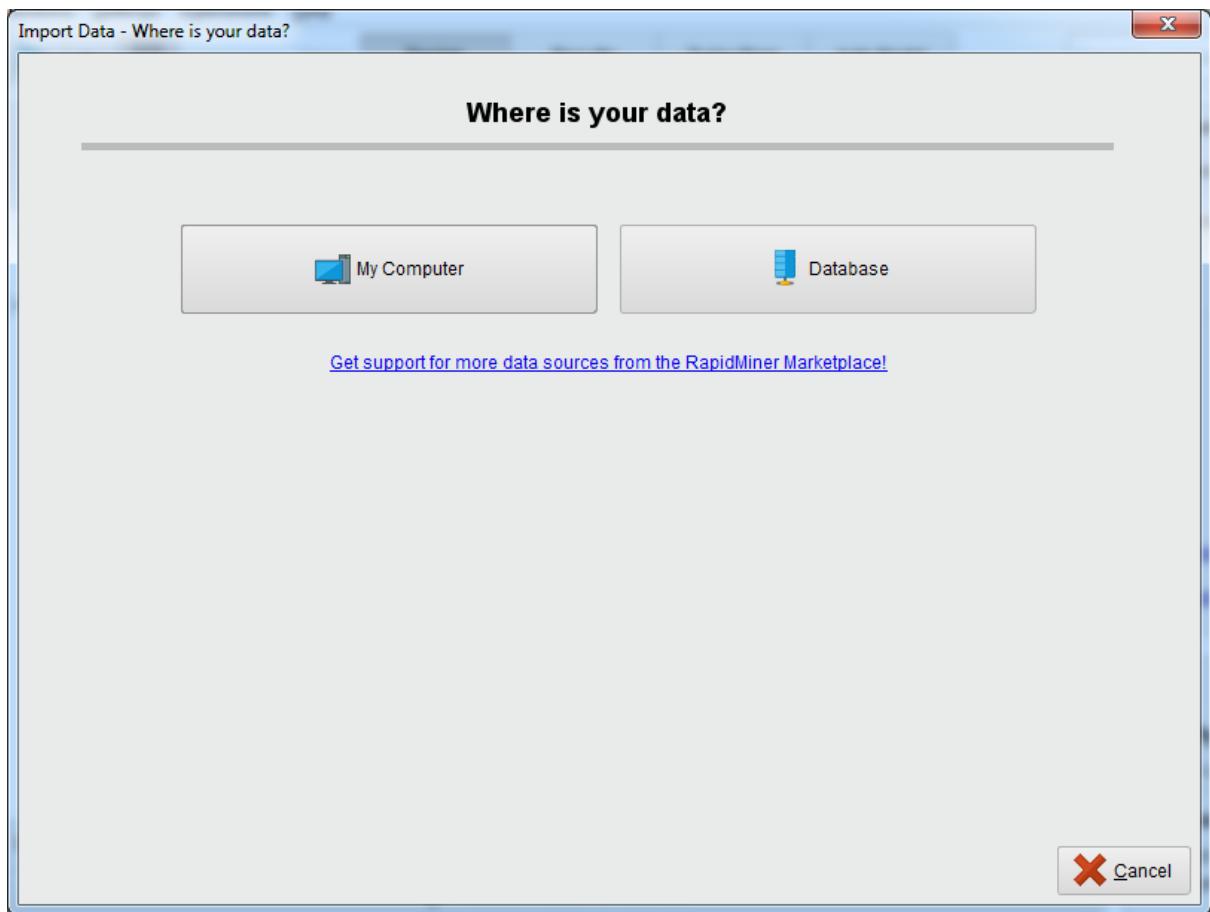
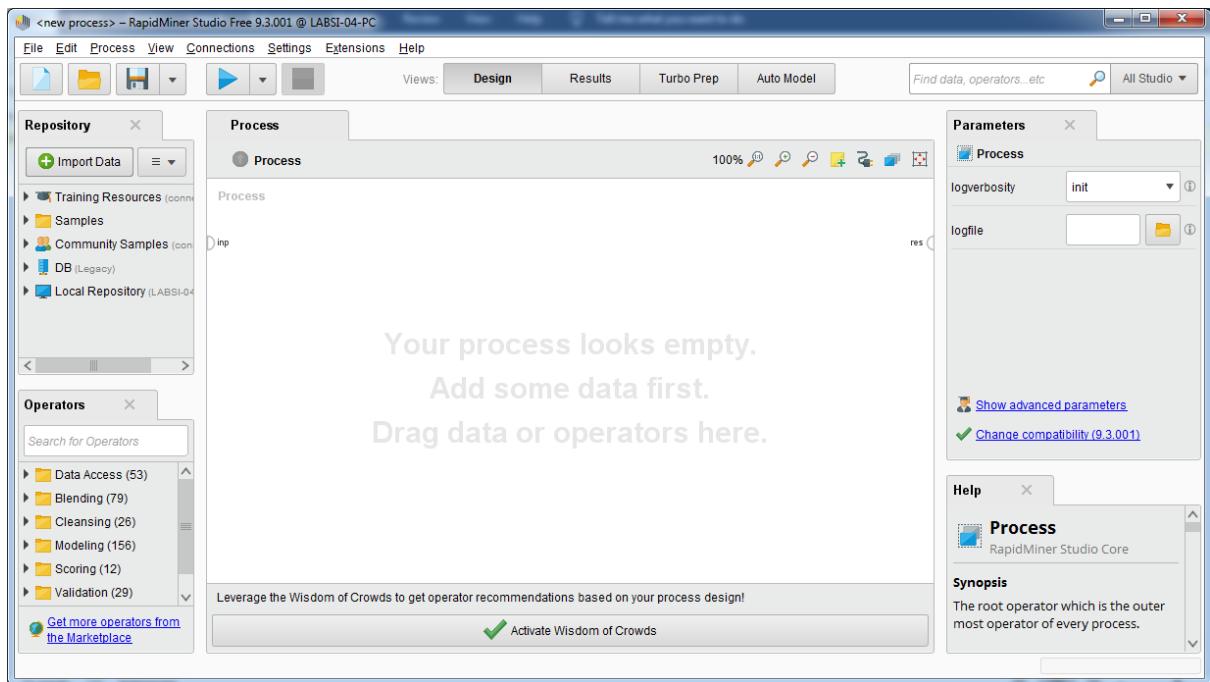


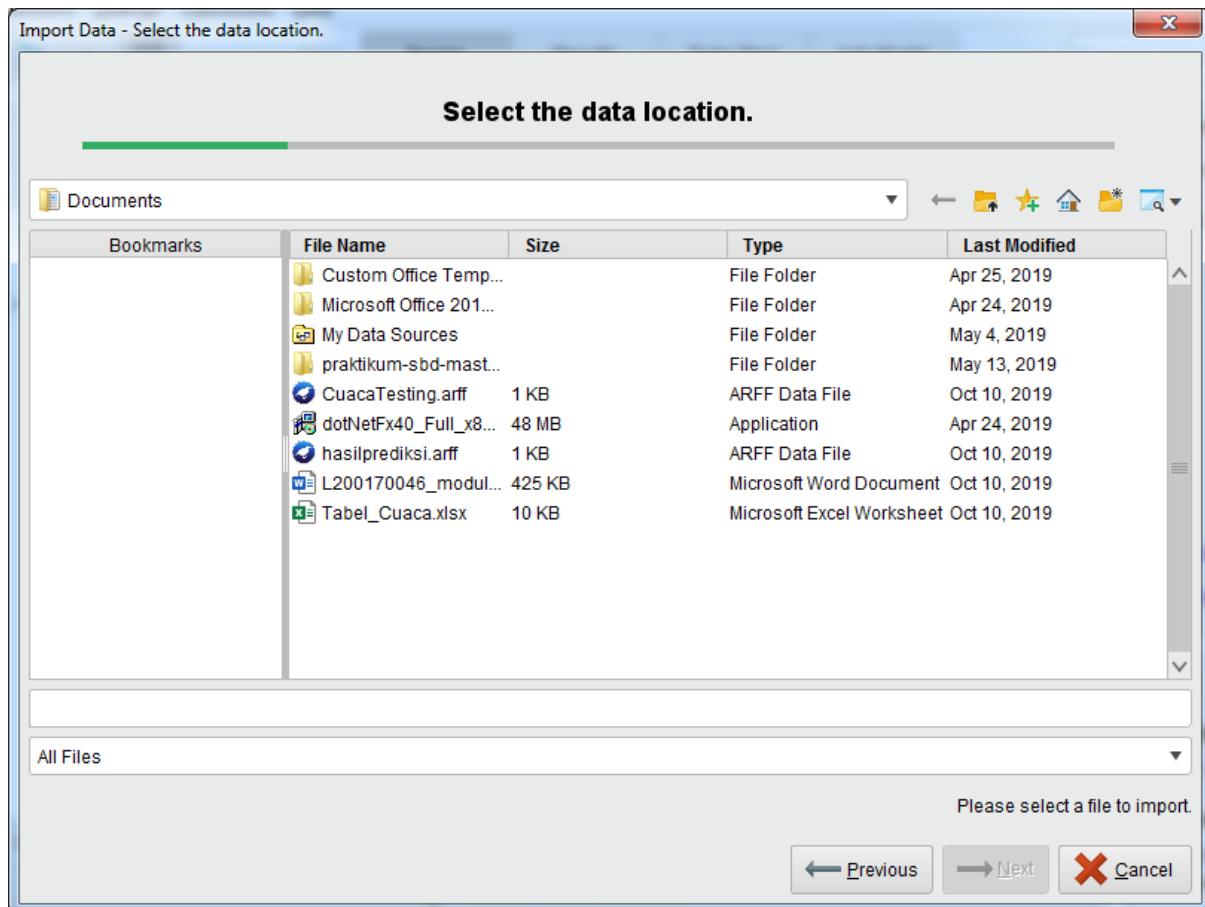
- Jendela ARFF-Viewer akan Menampilkan:

The screenshot shows the ARFF-Viewer application window. The title bar reads "ARFF-Viewer - C:\Users\LABSI-04\Documents\hasilprediksi.arff". The menu bar includes "File", "Edit", and "View". A toolbar with several icons is visible. The main area displays a table titled "Relation: Cuaca_predicted". The table has columns: No., 1: Cuaca Nominal, 2: Suhu Numeric, 3: Kelembapan_Udara Numeric, 4: Berangin Nominal, 5: prediction margin Numeric, 6: predicted Bermain_Tenis Nominal, and 7: Bermain_Tenis Nominal. The data rows are as follows:

No.	1: Cuaca Nominal	2: Suhu Numeric	3: Kelembapan_Udara Numeric	4: Berangin Nominal	5: prediction margin Numeric	6: predicted Bermain_Tenis Nominal	7: Bermain_Tenis Nominal
1	Cerah	75.0	65.0	TIDAK	0.762765	YA	
2	Cerah	80.0	68.0	YA	0.087878	YA	
3	Cerah	83.0	87.0	YA	-0.676866	TIDAK	
4	Mendung	70.0	96.0	TIDAK	0.628523	YA	
5	Mendung	68.0	81.0	TIDAK	0.833996	YA	
6	Hujan	65.0	75.0	YA	0.253733	YA	
7	Hujan	64.0	85.0	YA	-0.160143	TIDAK	

IMPLEMENTASI NAIVE BAYES DENGAN RAPIDMINER





Import Data - Select the cells to import.

Select the cells to import.

Sheet: Training ▾ Cell range: A:E Select All Define header row: 1

	A	B	C	D	E
1	Cuaca	Suhu	Kelembaban_udara	Berangin	Bermain_Tenis
2	Cerah	85.000	85.000	TIDAK	TIDAK
3	Cerah	80.000	90.000	YA	TIDAK
4	Mendung	83.000	86.000	TIDAK	YA
5	Hujan	70.000	96.000	TIDAK	YA
6	Hujan	68.000	80.000	TIDAK	YA
7	Hujan	65.000	70.000	YA	TIDAK
8	Mendung	64.000	65.000	YA	YA
9	Cerah	72.000	95.000	TIDAK	TIDAK
10	Cerah	69.000	70.000	TIDAK	YA
11	Hujan	75.000	80.000	TIDAK	YA
12	Cerah	75.000	70.000	YA	YA
13	Mendung	72.000	90.000	YA	YA
14	Mendung	81.000	75.000	TIDAK	YA
15		74.000	84.000	YA	TIDAK

← Previous → Next X Cancel

Import Data - Format your columns.

Format your columns.

Replace errors with missing values ⓘ

	Cuaca polynomial	Suhu integer	Kelembaban_u... integer	Berangin polynomial	Bermain_Tenis polynomial
1	Cerah	85	85	TIDAK	TIDAK
2	Cerah	80	90	YA	TIDAK
3	Mendung	83	86	TIDAK	YA
4	Hujan	70	96	TIDAK	YA
5	Hujan	68	80	TIDAK	YA
6	Hujan	65	70	YA	TIDAK
7	Mendung	64	65	YA	YA
8	Cerah	72	95	TIDAK	YA
9	Cerah	69	70	TIDAK	YA
10	Hujan	75	80	TIDAK	YA
11	Cerah	75	70	YA	YA
12	Mendung	72	90	YA	YA
13	Mendung	81	75	TIDAK	YA

 no problems.

 Previous  Next  Cancel

Import Data - Format your columns.

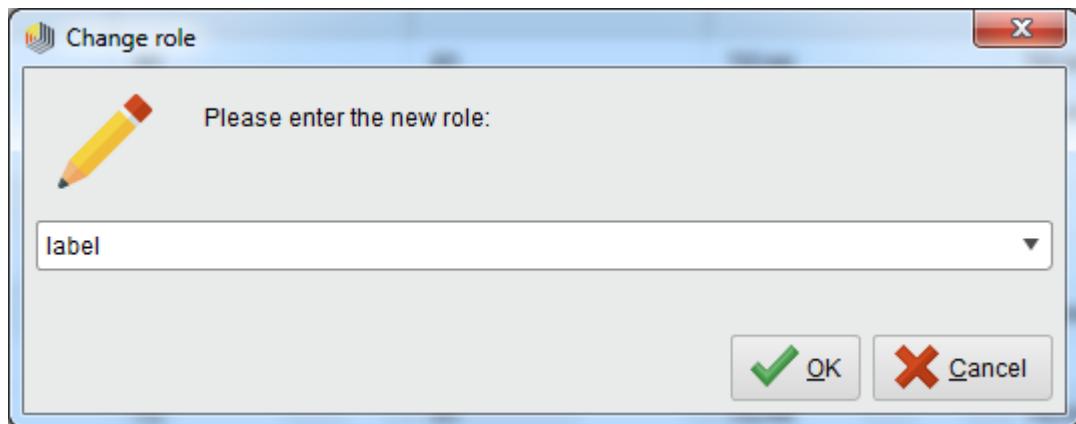
Format your columns.

Replace errors with missing values ⓘ

	Cuaca polynomial	Suhu integer	Kelembaban_u... integer	Berangin polynomial	Bermain_Tenis binominal
1	Cerah	85	85	TIDAK	TIDAK
2	Cerah	80	90	YA	TIDAK
3	Mendung	83	86	TIDAK	YA
4	Hujan	70	96	TIDAK	YA
5	Hujan	68	80	TIDAK	YA
6	Hujan	65	70	YA	TIDAK
7	Mendung	64	65	YA	YA
8	Cerah	72	95	TIDAK	TIDAK
9	Cerah	69	70	TIDAK	YA
10	Hujan	75	80	TIDAK	YA
11	Cerah	75	70	YA	YA
12	Mendung	72	90	YA	YA
13	Mendung	81	75	TIDAK	YA

 no problems.

 Previous  Next  Cancel



Import Data - Format your columns.

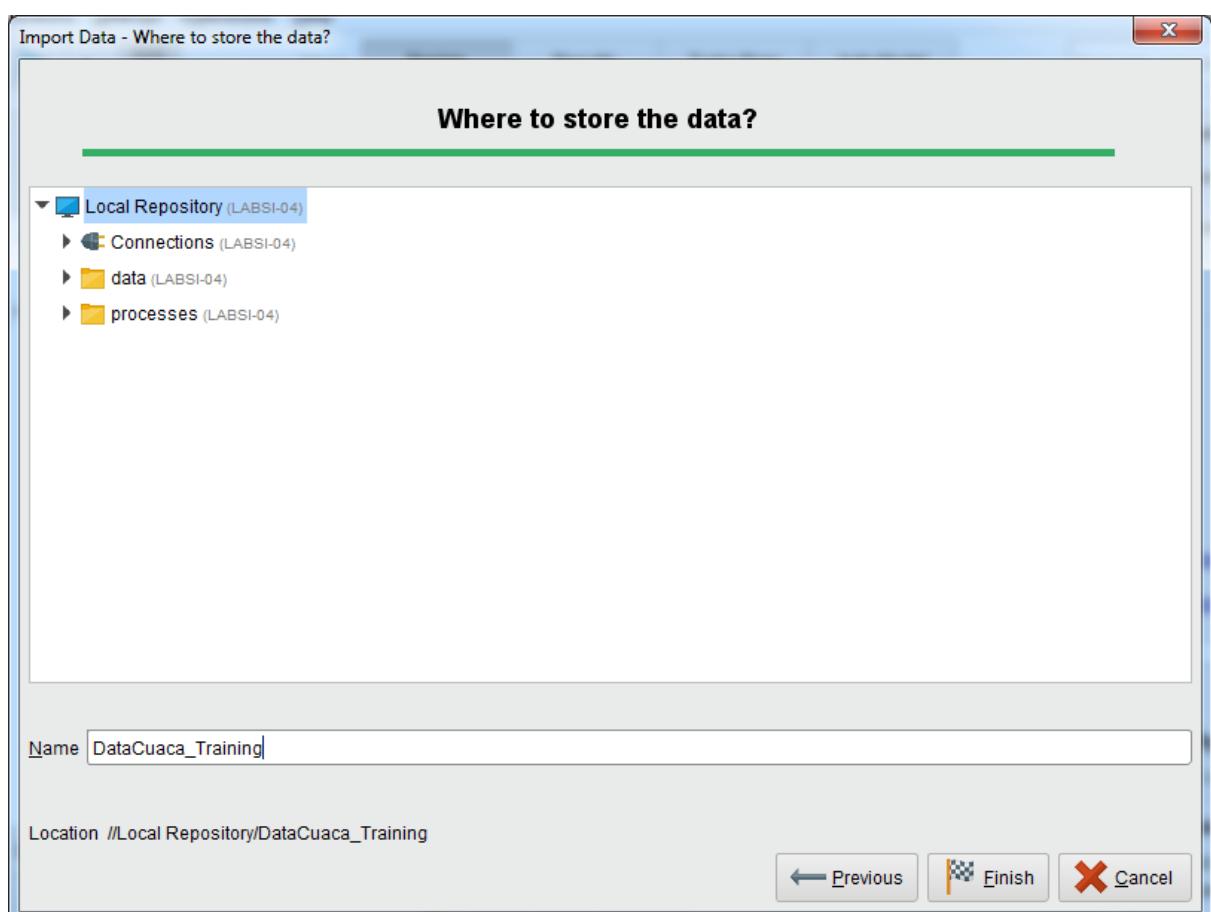
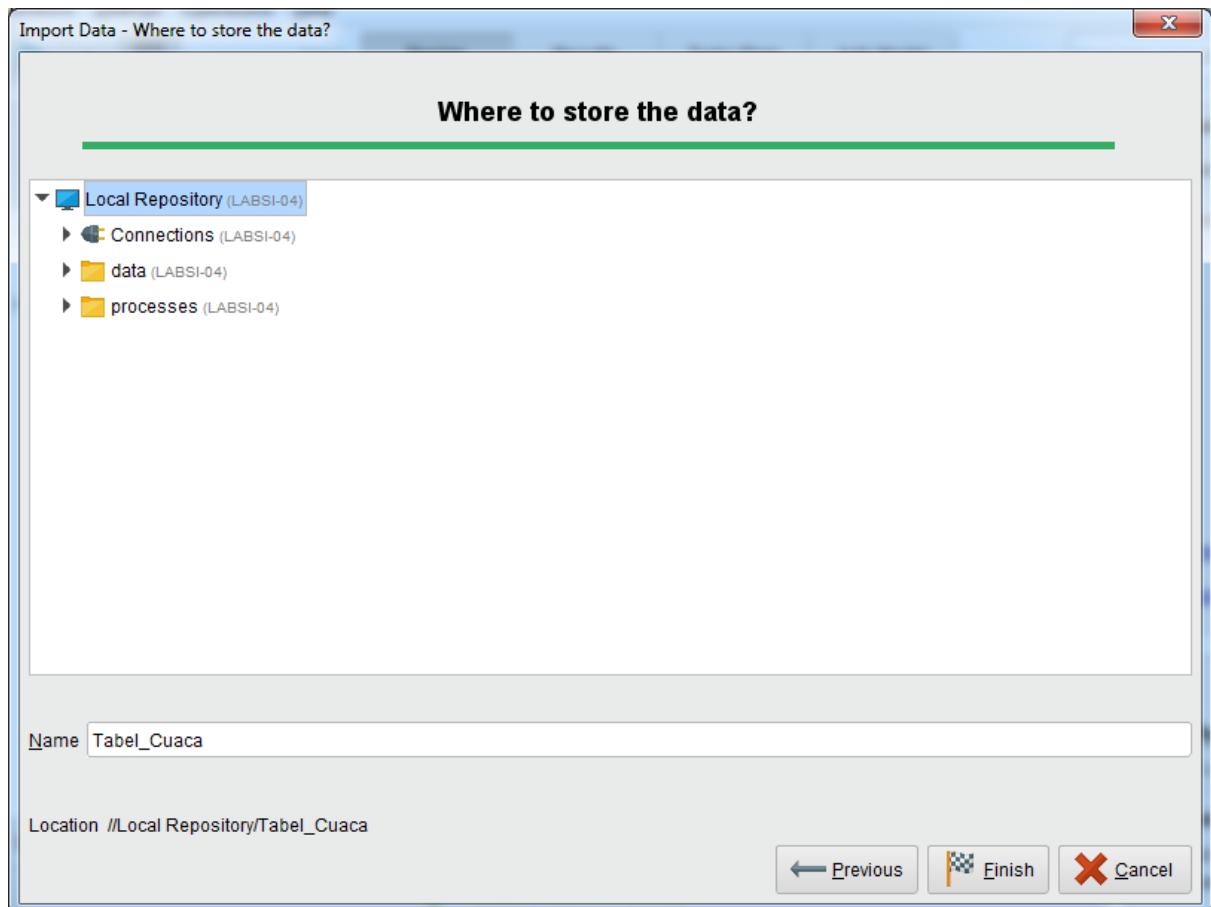
Format your columns.

Replace errors with missing values (i)

	Cuaca polynominal	Suhu integer	Kelembaban_u... integer	Berangin polynominal	Bermain_Tenis binominal label
1	Cerah	85	85	TIDAK	TIDAK
2	Cerah	80	90	YA	TIDAK
3	Mendung	83	86	TIDAK	YA
4	Hujan	70	96	TIDAK	YA
5	Hujan	68	80	TIDAK	YA
6	Hujan	65	70	YA	TIDAK
7	Mendung	64	65	YA	YA
8	Cerah	72	95	TIDAK	TIDAK
9	Cerah	69	70	TIDAK	YA
10	Hujan	75	80	TIDAK	YA
11	Cerah	75	70	YA	YA
12	Mendung	72	90	YA	YA
13	Mendung	81	75	TIDAK	YA

no problems.

[Previous](#) [Next](#) [Cancel](#)



RapidMiner Studio Free 9.3.001 @ LABSI-04-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

Result History ExampleSet (/Local Repository/DataCuaca_Training) X

Open in Turbo Prep Auto Model Filter (14 / 14 examples): all

Data Statistics Visualizations Annotations

Row No.	Bermain_Te...	Cuaca	Suhu	Kelembaban...	Berangin
1	TIDAK	Cerah	85	85	TIDAK
2	TIDAK	Cerah	80	90	YA
3	YA	Mendung	83	86	TIDAK
4	YA	Hujan	70	96	TIDAK
5	YA	Hujan	68	80	TIDAK
6	TIDAK	Hujan	65	70	YA
7	YA	Mendung	64	65	YA
8	TIDAK	Cerah	72	95	TIDAK
9	YA	Cerah	69	70	TIDAK
10	YA	Hujan	75	80	TIDAK
11	YA	Cerah	75	70	YA
12	YA	Mendung	72	90	YA
13	YA	Mendung	81	75	TIDAK

ExampleSet (14 examples, 1 special attribute, 4 regular attributes)

Repository X

- + Import Data
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - DataCuaca_Training (LABSI-04 - v)

Import Data - Select the data location.

Select the data location.

Documents

Bookmarks	File Name	Type	Last Modified
--- Last Directory	Custom Office Temp...	File Folder	Apr 25, 2019
	Microsoft Office 201...	File Folder	Apr 24, 2019
	My Data Sources	File Folder	May 4, 2019
	praktikum-sbd-mast...	File Folder	May 13, 2019
	CuacaTesting.arff	ARFF Data File	Oct 10, 2019
	dotNetFx40_Full_x8...	Application	Apr 24, 2019
	hasilprediksi.arff	ARFF Data File	Oct 10, 2019
	L200170046_modul...	Microsoft Word Document	Oct 10, 2019
	Tabel_Cuaca.xlsx	Microsoft Excel Worksheet	Oct 10, 2019
	tabel_cucatesting.xlsx	Microsoft Excel Worksheet	Oct 10, 2019

tabel_cucatesting.xlsx

All Files

The selected file will be imported as: Excel [Change](#)

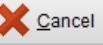
← Previous → Next ✖ Cancel

Import Data - Select the cells to import.

Select the cells to import.

Sheet: Sheet1 ▾ Cell range: E6:E6 Select All Define header row: 1

	A	B	C	D	E
1	Cuaca	Suhu	Kelembaban_udara	Berangin	Bermain_Tenis
2	Cerah	75.000	65.000	Kelembaban_udara	
3	Cerah	80.000	68.000	YA	
4	Cerah	83.000	87.000	YA	
5	Mendung	70.000	96.000	TIDAK	
6	Mendung	68.000	81.000	TIDAK	
7	Hujan	65.000	75.000	YA	
8	Hujan	64.000	85.000	YA	

← Previous → Next 

Import Data - Format your columns.

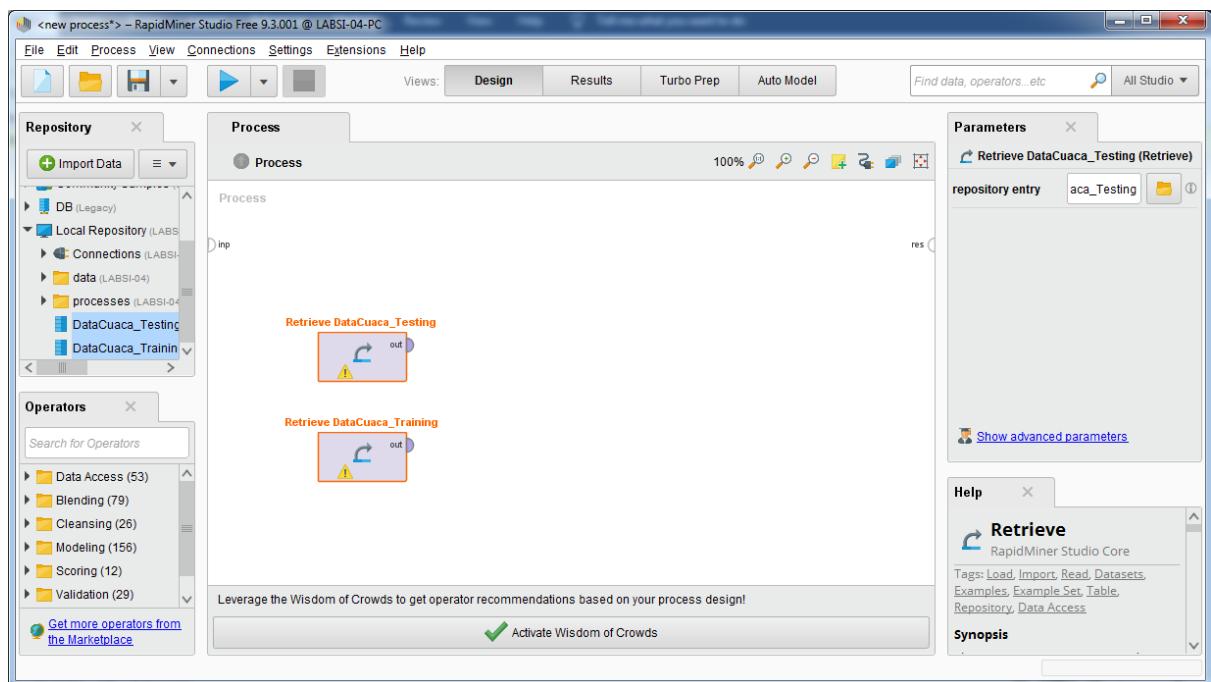
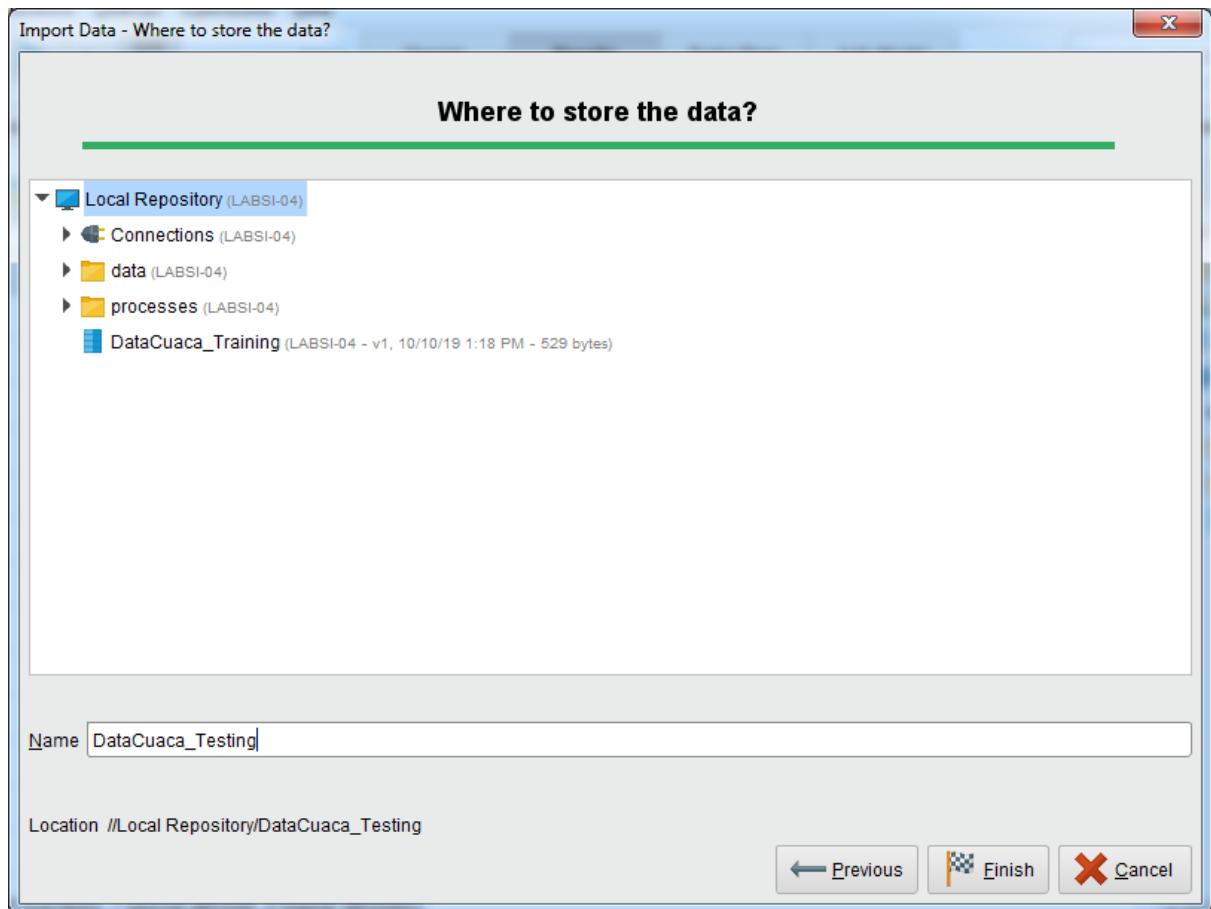
Format your columns.

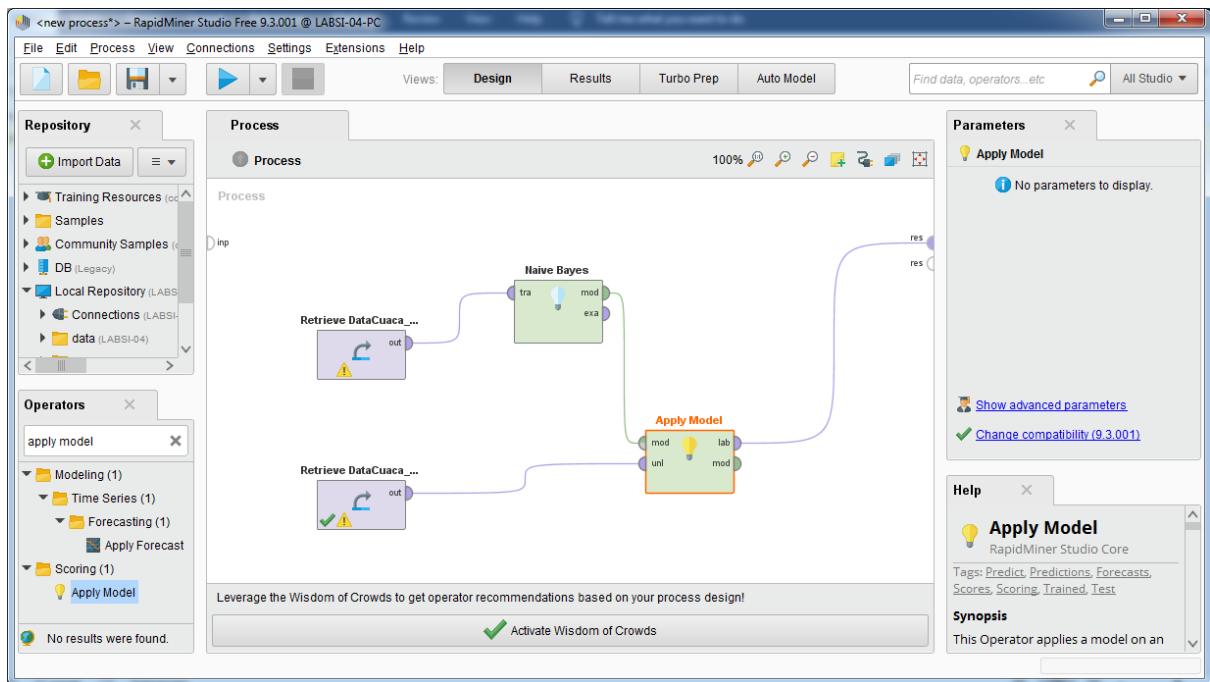
Replace errors with missing values ⓘ

	Cuaca polynomial	Suhu integer	Kelembaban_udara integer	Berangin polynomial
1	Cerah	75	65	TIDAK
2	Cerah	80	68	YA
3	Cerah	83	87	YA
4	Mendung	70	96	TIDAK
5	Mendung	68	81	TIDAK
6	Hujan	65	75	YA
7	Hujan	64	85	YA

 no problems.

← Previous → Next 





- Hasil RUN:

The screenshot shows the Results view of RapidMiner Studio with the following details:

- Result History:** The history shows three entries: "ExampleSet (/Local Repository/DataCuaca_Training)", "ExampleSet (Apply Model)", and "ExampleSet (/Local Repository/DataCuaca_Testing)".
- Data View:** The "Data" tab is selected, displaying a table of weather forecast results. The columns are: Row No., prediction(B...), confidence(...), confidence(...), Cuaca, Suhu, Kelembaban..., and Berangin. The data is as follows:

Row No.	prediction(B...)	confidence(...)	confidence(...)	Cuaca	Suhu	Kelembaban...	Berangin
1	YA	0.154	0.846	Cerah	75	65	TIDAK
2	YA	0.498	0.502	Cerah	80	68	YA
3	TIDAK	0.856	0.144	Cerah	83	87	YA
4	YA	0.019	0.981	Mendung	70	96	TIDAK
5	YA	0.007	0.993	Mendung	68	81	TIDAK
6	YA	0.371	0.629	Hujan	65	75	YA
7	TIDAK	0.568	0.432	Hujan	64	85	YA

- Repository:** On the right, the repository tree shows "DataCuaca_Training" and "DataCuaca_Testing" under "processes".

RapidMiner Studio Free 9.3.001 @ LABSI-04-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

Result History ExampleSet (Apply Model) ExampleSet (//Local Repository/DataCuaca_Training)

Data Statistics Visualizations Annotations

Name	Type	Missing	Filter (7 / 7 attributes):	Search for Attributes	Filter
Prediction					
prediction(Bermain_Tenis)	Binomial	0	Least TIDAK (2)	Most YA (5)	
Confidence_TIDAK	Real	0	Min 0.007	Max 0.856	
confidence(YA)	Real	0	Min 0.144	Max 0.993	
Cuaca	Polynomial	0	Least Mendung (2)	Most Cerah (3)	
Suhu	Integer	0	Min 64	Max 83	
Kelembaban_udara	Integer	0	Min 65	Max 96	

Showing attributes 1 - 7 Examples: 7 Special Attributes: 3 Regular Attributes: 4

Repository Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - DataCuaca_Testing (LABSI-04 - v1)
 - DataCuaca_Training (LABSI-04 - v1)

RapidMiner Studio Free 9.3.001 @ LABSI-04-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

Result History ExampleSet (Apply Model) ExampleSet (//Local Repository/DataCuaca_Training)

Data Statistics Visualizations Annotations

Name	Type	Missing	Filter (7 / 7 attributes):	Search for Attributes	Filter
Binomial	Least TIDAK (2)	Most YA (5)	Values YA (5), TIDAK (2)		
Real	Min 0.007	Max 0.856	Average 0.353		
Real	Min 0.144	Max 0.993	Average 0.647		
Polynomial	Least Mendung (2)	Most Cerah (3)	Values Cerah (3), Hujan (2), ...[1 more]		
Integer	Min 64	Max 83	Average 72.143		
Integer	Min 65	Max 96	Average 79.571		

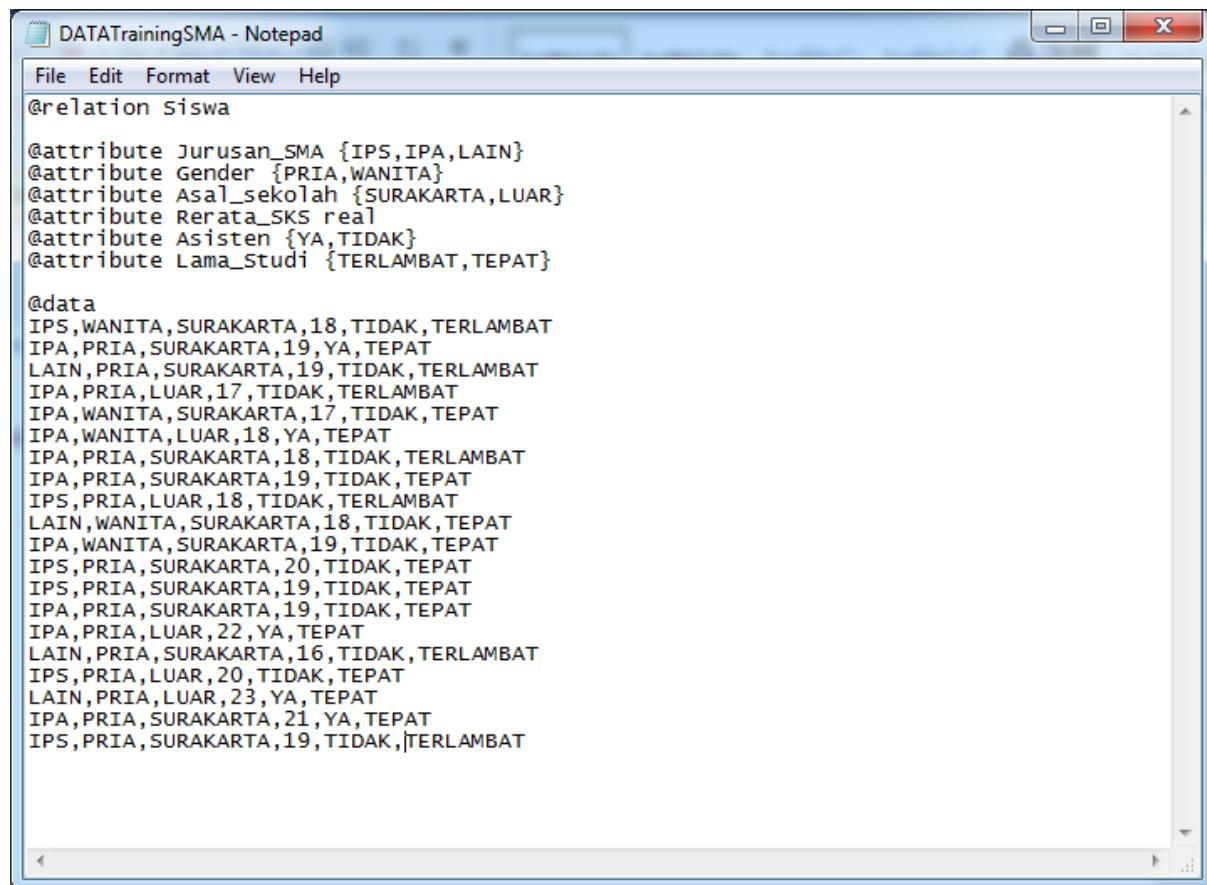
Showing attributes 1 - 7 Examples: 7 Special Attributes: 3 Regular Attributes: 4

Repository Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - DataCuaca_Testing (LABSI-04 - v1)
 - DataCuaca_Training (LABSI-04 - v1)

TUGAS

1. Implementasi Naive Bayes dengan Weka
 - Data Training:



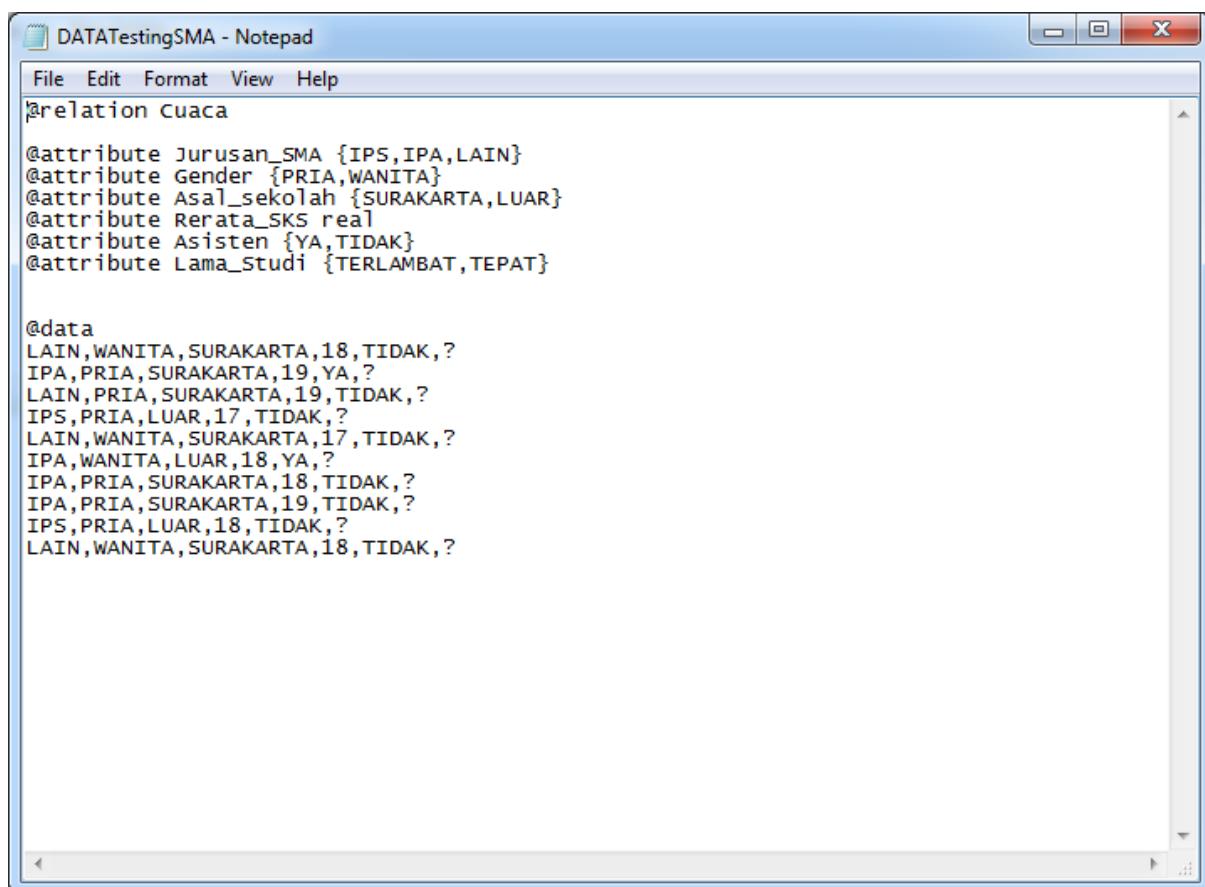
The screenshot shows a Windows Notepad window with the title "DATATrainingSMA - Notepad". The window contains the following text:

```
File Edit Format View Help
@relation Siswa

@attribute Jurusan_SMA {IPS,IPA,LAIN}
@attribute Gender {PRIA,WANITA}
@attribute Asal_sekolah {SURAKARTA,LUAR}
@attribute Rerata_SKS real
@attribute Asisten {YA,TIDAK}
@attribute Lama_Studi {TERLAMBAT,TEPAT}

@data
IPS,WANITA,SURAKARTA,18,TIDAK,TERLAMBAT
IPA,PRIA,SURAKARTA,19,YA,TEPAT
LAIN,PRIA,SURAKARTA,19,TIDAK,TERLAMBAT
IPA,PRIA,LUAR,17,TIDAK,TERLAMBAT
IPA,WANITA,SURAKARTA,17,TIDAK,TEPAT
IPA,WANITA,LUAR,18,YA,TEPAT
IPA,PRIA,SURAKARTA,18,TIDAK,TERLAMBAT
IPA,PRIA,SURAKARTA,19,TIDAK,TEPAT
IPS,PRIA,LUAR,18,TIDAK,TERLAMBAT
LAIN,WANITA,SURAKARTA,18,TIDAK,TEPAT
IPA,WANITA,SURAKARTA,19,TIDAK,TEPAT
IPS,PRIA,SURAKARTA,20,TIDAK,TEPAT
IPS,PRIA,SURAKARTA,19,TIDAK,TEPAT
IPA,PRIA,SURAKARTA,19,TIDAK,TEPAT
IPA,PRIA,LUAR,22,YA,TEPAT
LAIN,PRIA,SURAKARTA,16,TIDAK,TERLAMBAT
IPS,PRIA,LUAR,20,TIDAK,TEPAT
LAIN,PRIA,LUAR,23,YA,TEPAT
IPA,PRIA,SURAKARTA,21,YA,TEPAT
IPS,PRIA,SURAKARTA,19,TIDAK,TERLAMBAT
```

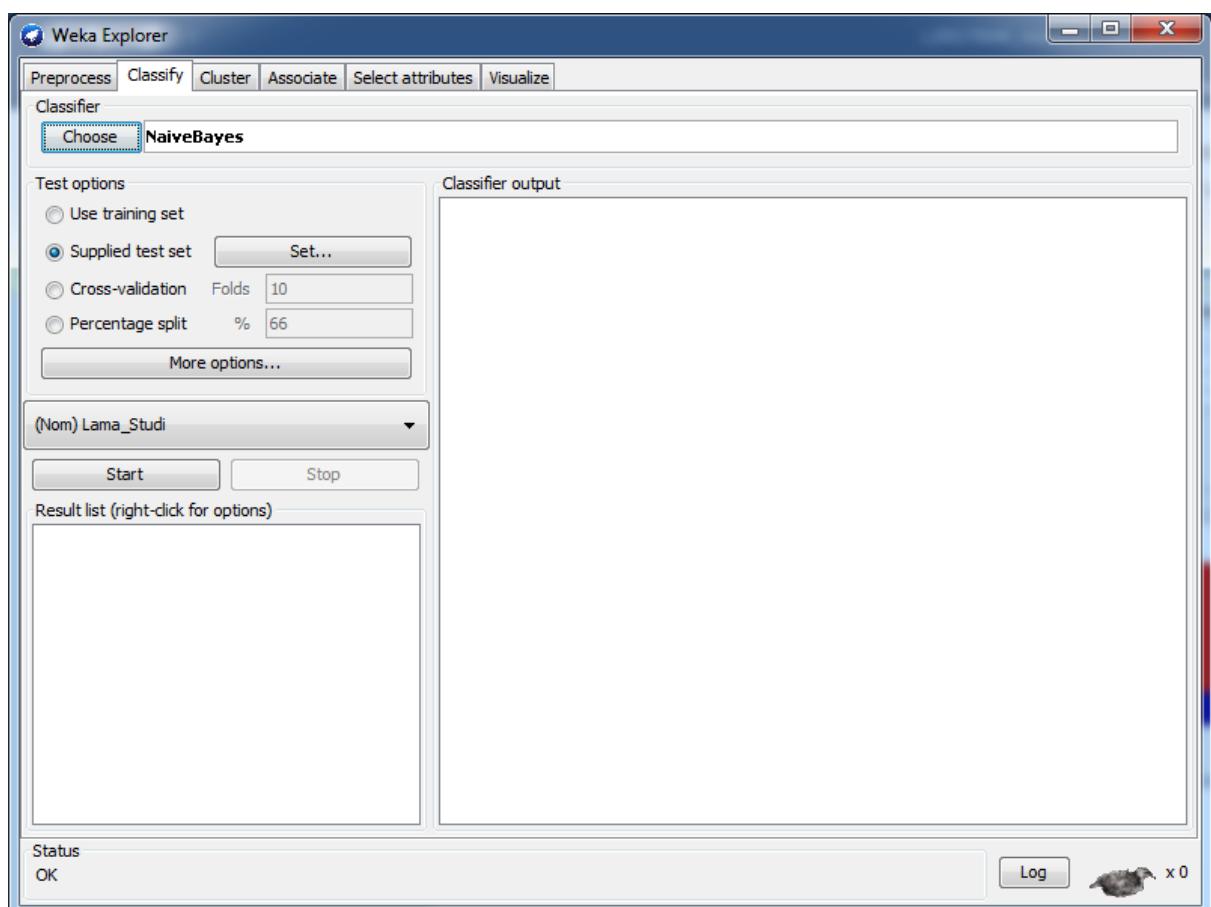
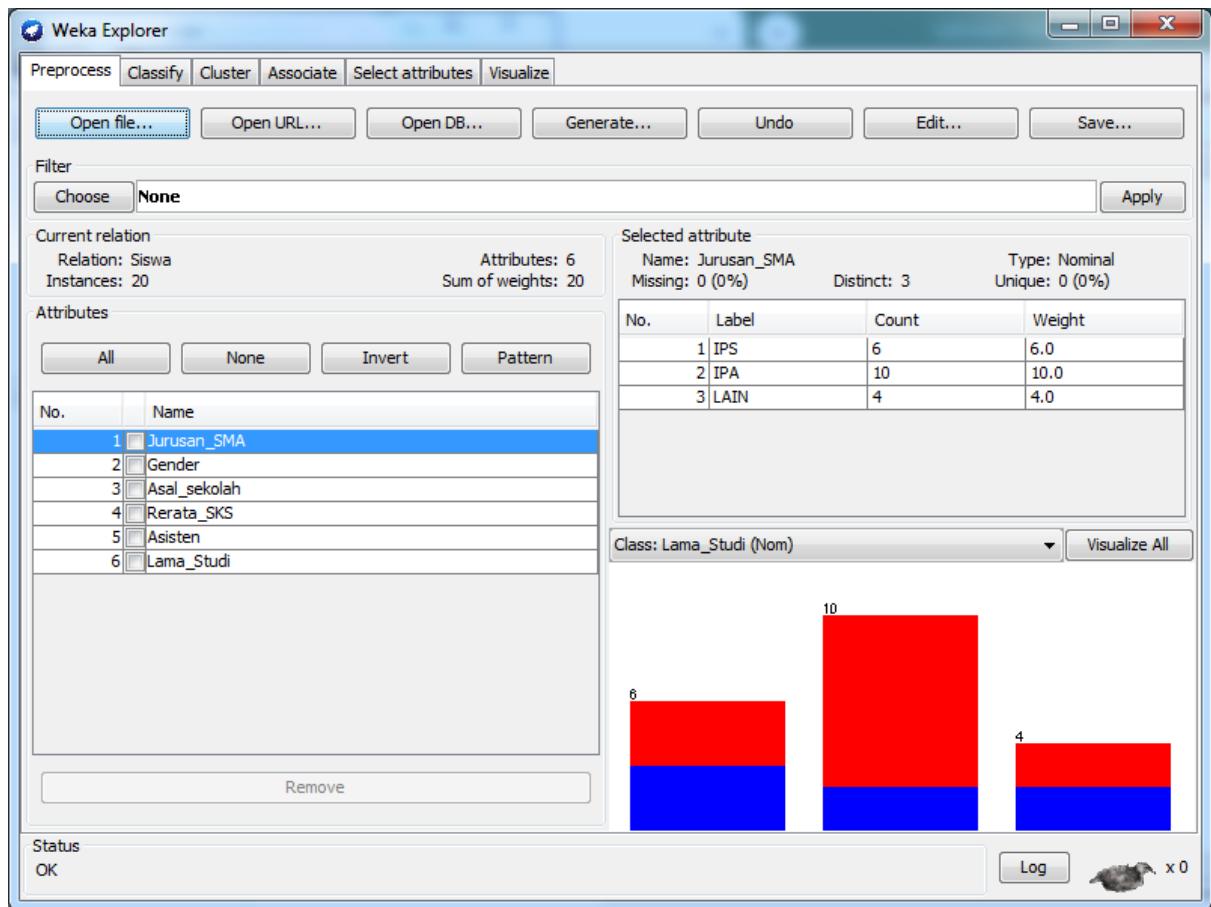
- Data Testing:

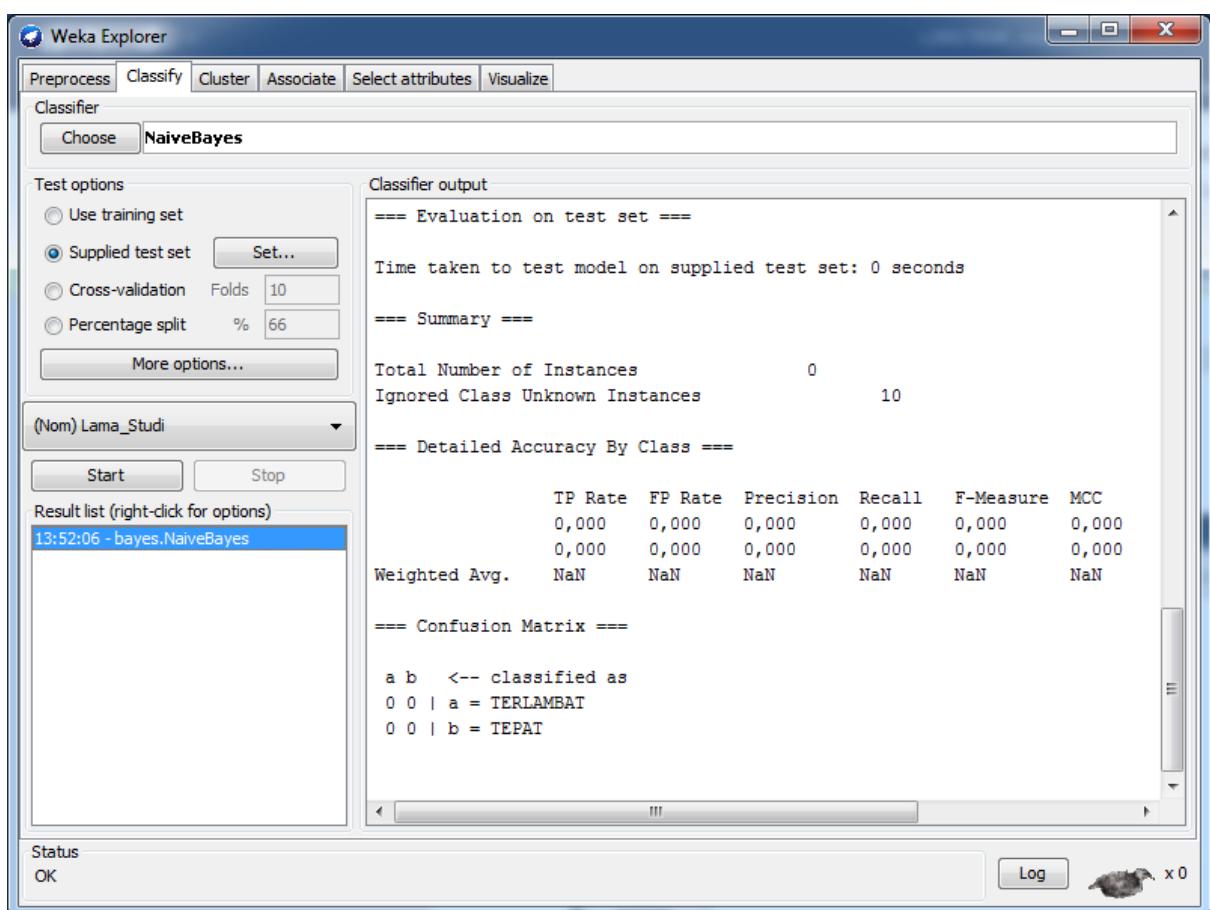
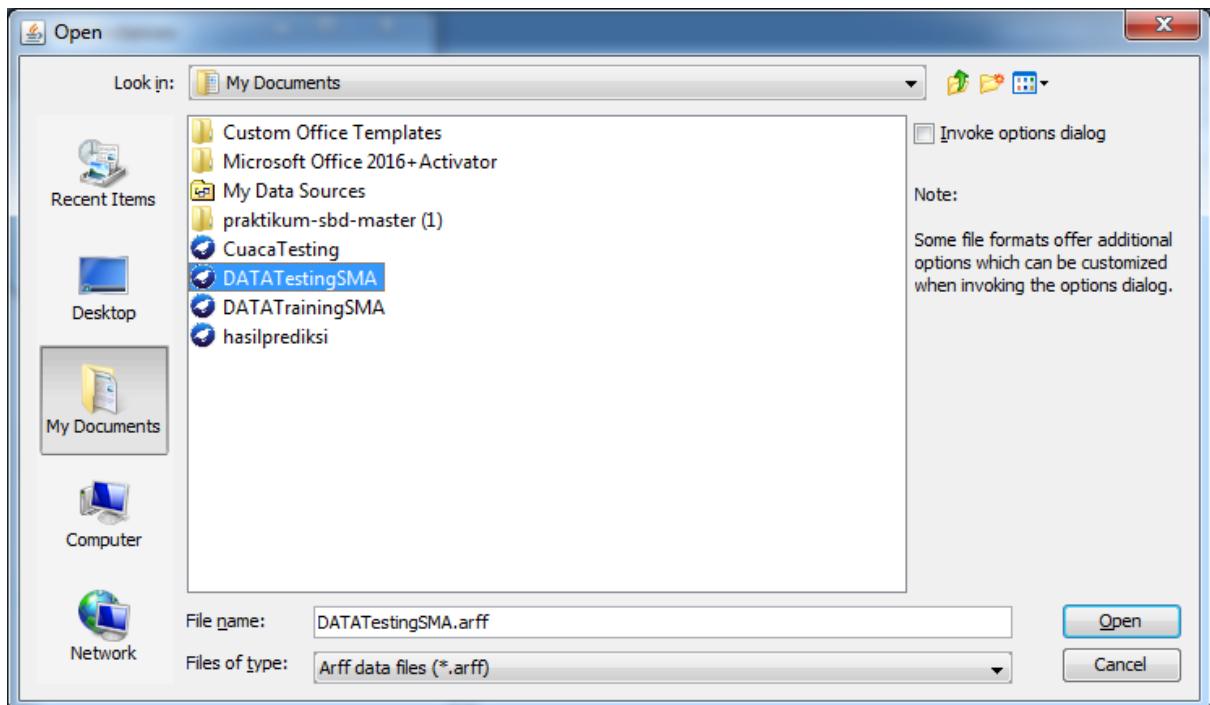


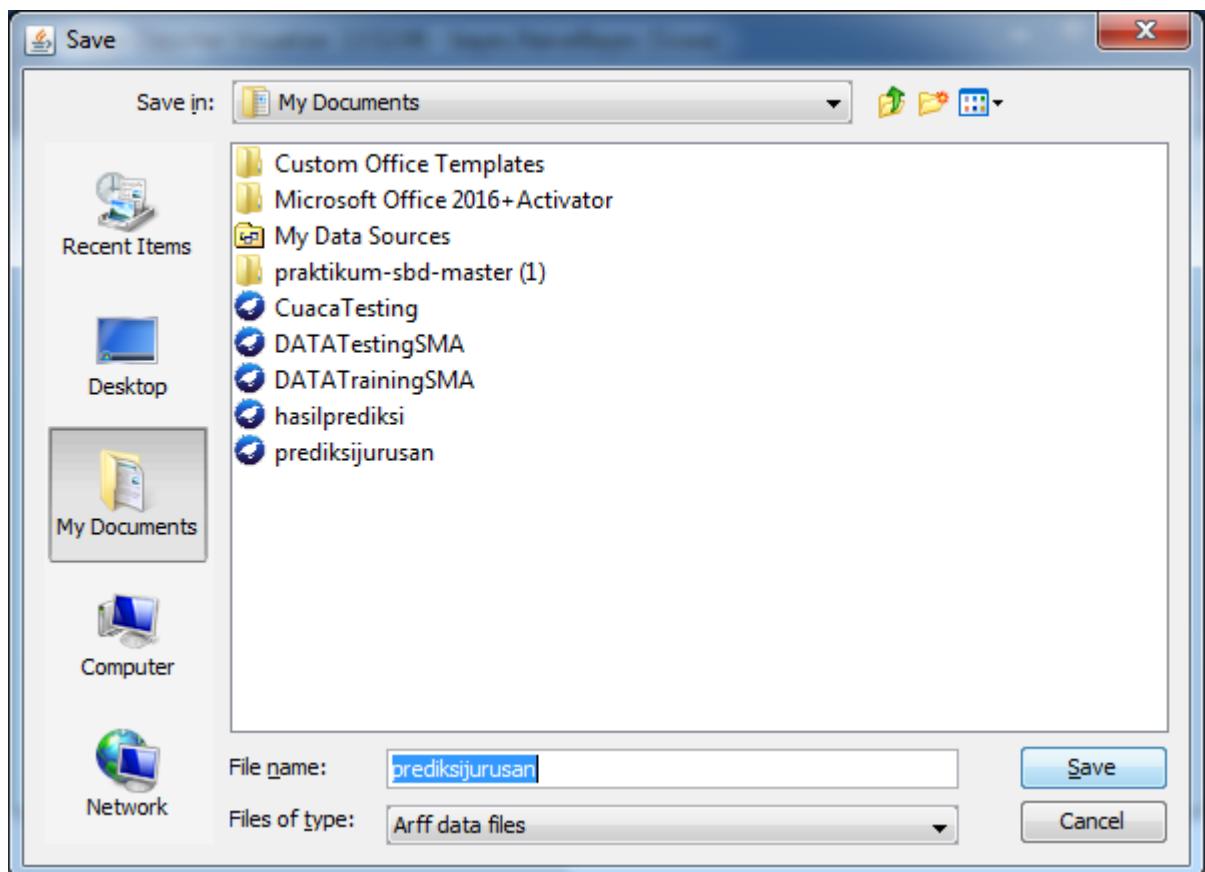
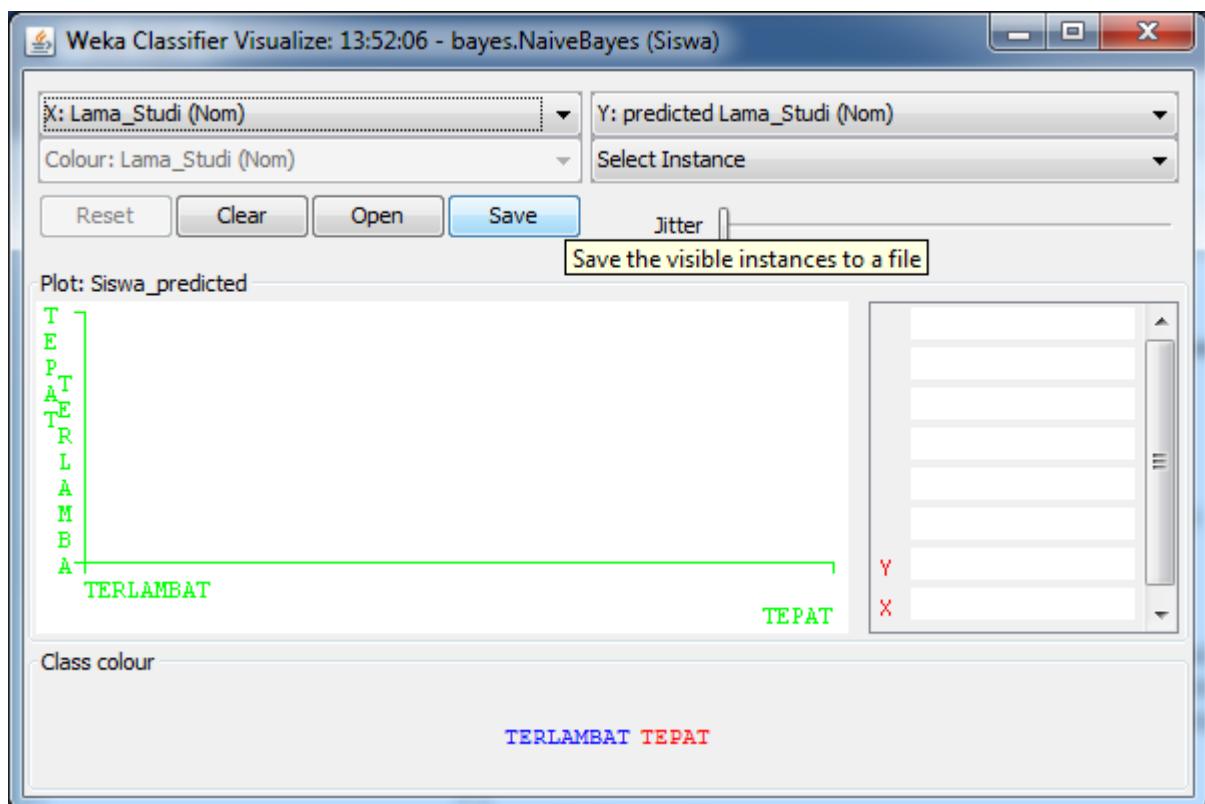
The screenshot shows a Windows Notepad window titled "DATATestingSMA - Notepad". The window contains the following text:

```
@relation Cuaca
@attribute Jurusan_SMA {IPS,IPA,LAIN}
@attribute Gender {PRIA,WANITA}
@attribute Asal_sekolah {SURAKARTA,LUAR}
@attribute Rerata_SKS real
@attribute Asisten {YA,TIDAK}
@attribute Lama_Studi {TERLAMBAT,TEPAT}

@data
LAIN,WANITA,SURAKARTA,18,TIDAK,?
IPA,PRIA,SURAKARTA,19,YA,?
LAIN,PRIA,SURAKARTA,19,TIDAK,?
IPS,PRIA,LUAR,17,TIDAK,?
LAIN,WANITA,SURAKARTA,17,TIDAK,?
IPA,WANITA,LUAR,18,YA,?
IPA,PRIA,SURAKARTA,18,TIDAK,?
IPA,PRIA,SURAKARTA,19,TIDAK,?
IPS,PRIA,LUAR,18,TIDAK,?
LAIN,WANITA,SURAKARTA,18,TIDAK,?
```







- Jendela ARFF-Viewer akan menampilkan:

ARFF-Viewer - C:\Users\LABSI-04\Documents\prediksijurusan.arff

File Edit View

prediksijurusan.arff

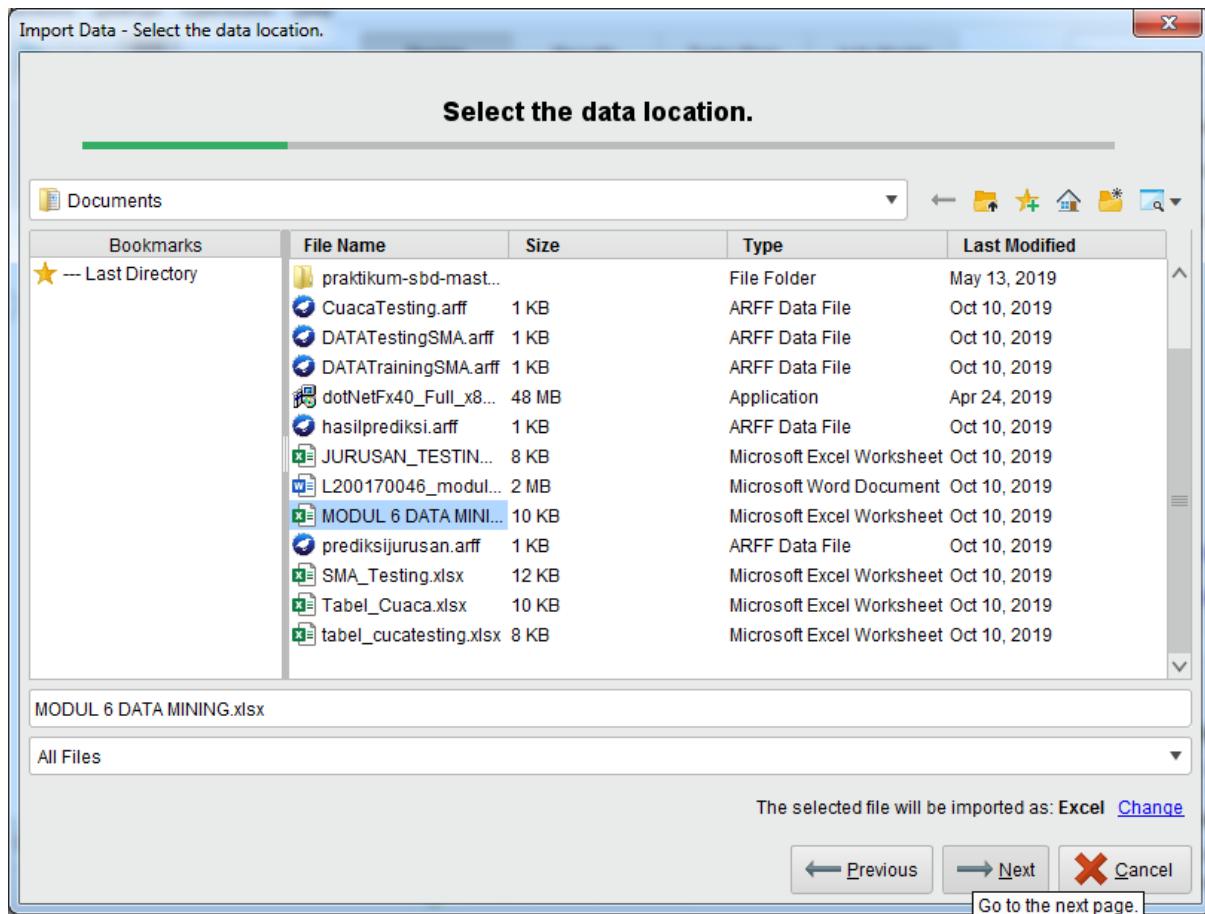
Relation: Siswa_predicted

No.	1: Jurusan_SMA Nominal	2: Gender Nominal	3: Asal_sekolah Nominal	4: Rerata_SKS Numeric	5: Asisten Nominal	6: prediction margin Numeric	7: predicted Lama_Studi Nominal	8: Lama_Studi Nominal
1	LAIN	WANITA	SURAKARTA	18.0	TIDAK	0.375862	TERLAMBAT	
2	IPA	PRIA	SURAKARTA	19.0	YA	-0.836469	TEPAT	
3	LAIN	PRIA	SURAKARTA	19.0	TIDAK	0.175169	TERLAMBAT	
4	IPS	PRIA	LUAR	17.0	TIDAK	0.713206	TERLAMBAT	
5	LAIN	WANITA	SURAKARTA	17.0	TIDAK	0.546846	TERLAMBAT	
6	IPA	WANITA	LUAR	18.0	YA	-0.757815	TEPAT	
7	IPA	PRIA	SURAKARTA	18.0	TIDAK	0.125076	TERLAMBAT	
8	IPA	PRIA	SURAKARTA	19.0	TIDAK	-0.356012	TEPAT	
9	IPS	PRIA	LUAR	18.0	TIDAK	0.588286	TERLAMBAT	
10	LAIN	WANITA	SURAKARTA	18.0	TIDAK	0.375862	TERLAMBAT	

2. Implementasi naive bayes dengan rapidminer

- data jurusan training:

-data jurusan testing:



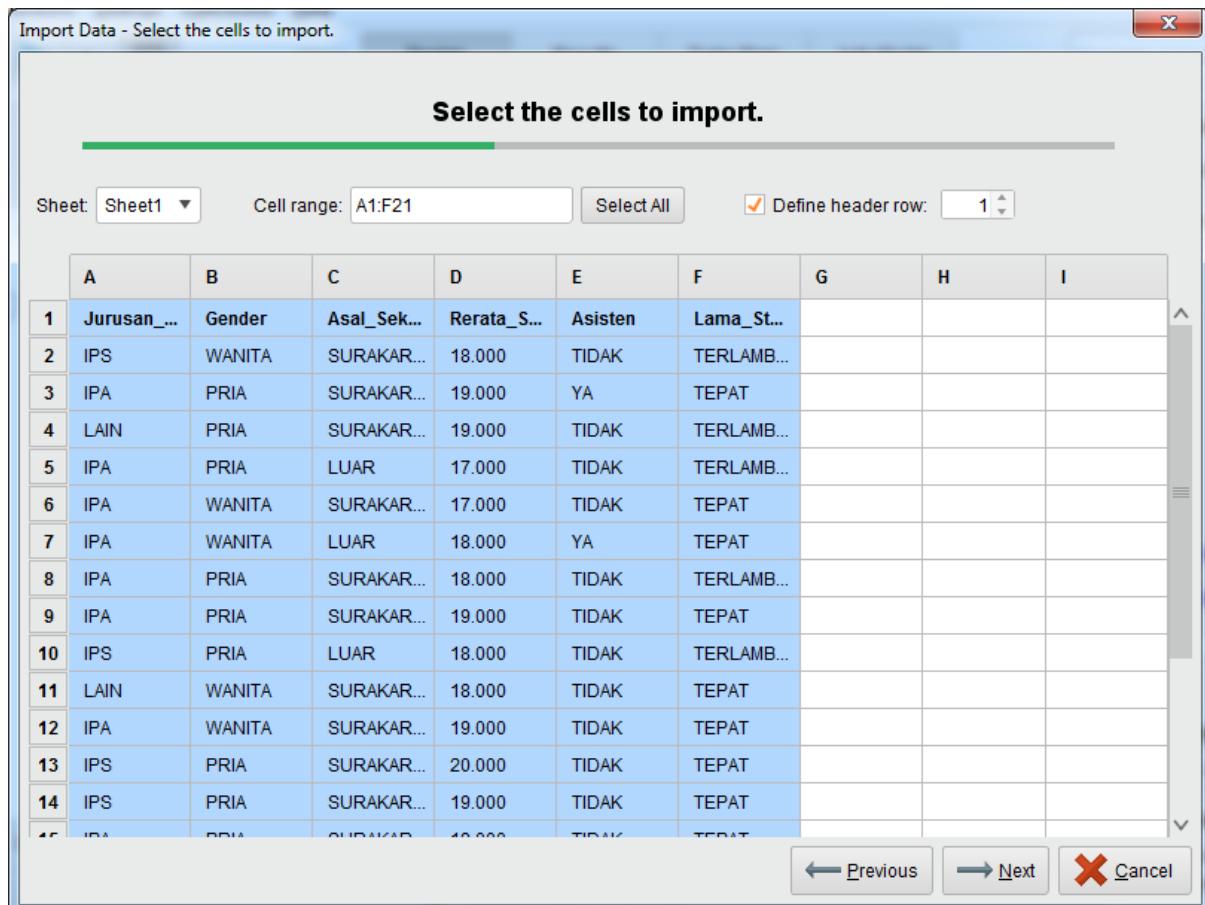
Import Data - Select the cells to import.

Select the cells to import.

Sheet: Sheet1 ▾ Cell range: A1:F21 Select All Define header row: 1

	A	B	C	D	E	F	G	H	I
1	Jurusan....	Gender	Asal_Sek...	Rerata_S...	Asisten	Lama_St...			
2	IPS	WANITA	SURAKAR...	18.000	TIDAK	TERLAMB...			
3	IPA	PRIA	SURAKAR...	19.000	YA	TEPAT			
4	LAIN	PRIA	SURAKAR...	19.000	TIDAK	TERLAMB...			
5	IPA	PRIA	LUAR	17.000	TIDAK	TERLAMB...			
6	IPA	WANITA	SURAKAR...	17.000	TIDAK	TEPAT			
7	IPA	WANITA	LUAR	18.000	YA	TEPAT			
8	IPA	PRIA	SURAKAR...	18.000	TIDAK	TERLAMB...			
9	IPA	PRIA	SURAKAR...	19.000	TIDAK	TEPAT			
10	IPS	PRIA	LUAR	18.000	TIDAK	TERLAMB...			
11	LAIN	WANITA	SURAKAR...	18.000	TIDAK	TEPAT			
12	IPA	WANITA	SURAKAR...	19.000	TIDAK	TEPAT			
13	IPS	PRIA	SURAKAR...	20.000	TIDAK	TEPAT			
14	IPS	PRIA	SURAKAR...	19.000	TIDAK	TEPAT			
15	IPA	PRIA	SURAKAR...	18.000	TIDAK	TEPAT			

← Previous → Next X Cancel



Import Data - Format your columns.

Format your columns.

Replace errors with missing values ⓘ

	Jurusan_SMA * <small>polynomial</small>	Gender * <small>polynomial</small>	Asal_Sekolah * <small>polynomial</small>	Rerata_SKS * <small>integer</small>	Asisten * <small>polynomial</small>	Lama_Studi * <small>binomial</small>	Name:
1	IPS	WANITA	SURAKARTA	18	TIDAK	TERLAMBAT	
2	IPA	PRIA	SURAKARTA	19	YA	TEPAT	
3	LAIN	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT	
4	IPA	PRIA	LUAR	17	TIDAK	TERLAMBAT	
5	IPA	WANITA	SURAKARTA	17	TIDAK	TEPAT	
6	IPA	WANITA	LUAR	18	YA	TEPAT	
7	IPA	PRIA	SURAKARTA	18	TIDAK	TERLAMBAT	
8	IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT	
9	IPS	PRIA	LUAR	18	TIDAK	TERLAMBAT	
10	LAIN	WANITA	SURAKARTA	18	TIDAK	TEPAT	
11	IPA	WANITA	SURAKARTA	19	TIDAK	TEPAT	
12	IPS	PRIA	SURAKARTA	20	TIDAK	TEPAT	
13	IPS	PRIA	SURAKARTA	19	TIDAK	TEPAT	

 no problems.

Change role



Please enter the new role:

Import Data - Format your columns.

Format your columns.

Replace errors with missing values ⓘ

	Jurusan_SMA * <small>polynomial</small>	Gender * <small>polynomial</small>	Asal_Sekolah * <small>polynomial</small>	Rerata_SKS * <small>integer</small>	Asisten * <small>polynomial</small>	Lama_Studi * <small>binomial label</small>
1	IPS	WANITA	SURAKARTA	18	TIDAK	TERLAMBAT
2	IPA	PRIA	SURAKARTA	19	YA	TEPAT
3	LAIN	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT
4	IPA	PRIA	LUAR	17	TIDAK	TERLAMBAT
5	IPA	WANITA	SURAKARTA	17	TIDAK	TEPAT
6	IPA	WANITA	LUAR	18	YA	TEPAT
7	IPA	PRIA	SURAKARTA	18	TIDAK	TERLAMBAT
8	IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT
9	IPS	PRIA	LUAR	18	TIDAK	TEPAT
10	LAIN	WANITA	SURAKARTA	18	TIDAK	TEPAT
11	IPA	WANITA	SURAKARTA	19	TIDAK	TEPAT
12	IPS	PRIA	SURAKARTA	20	TIDAK	TEPAT
13	IPS	PRIA	SURAKARTA	19	TIDAK	TEPAT

✓ no problems.

← Previous → Next ✖ Cancel

<new process> – RapidMiner Studio Free 9.3.001 @ LABSI-04-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

Result History ExampleSet //Local Repository/dajurusan_training

Repository

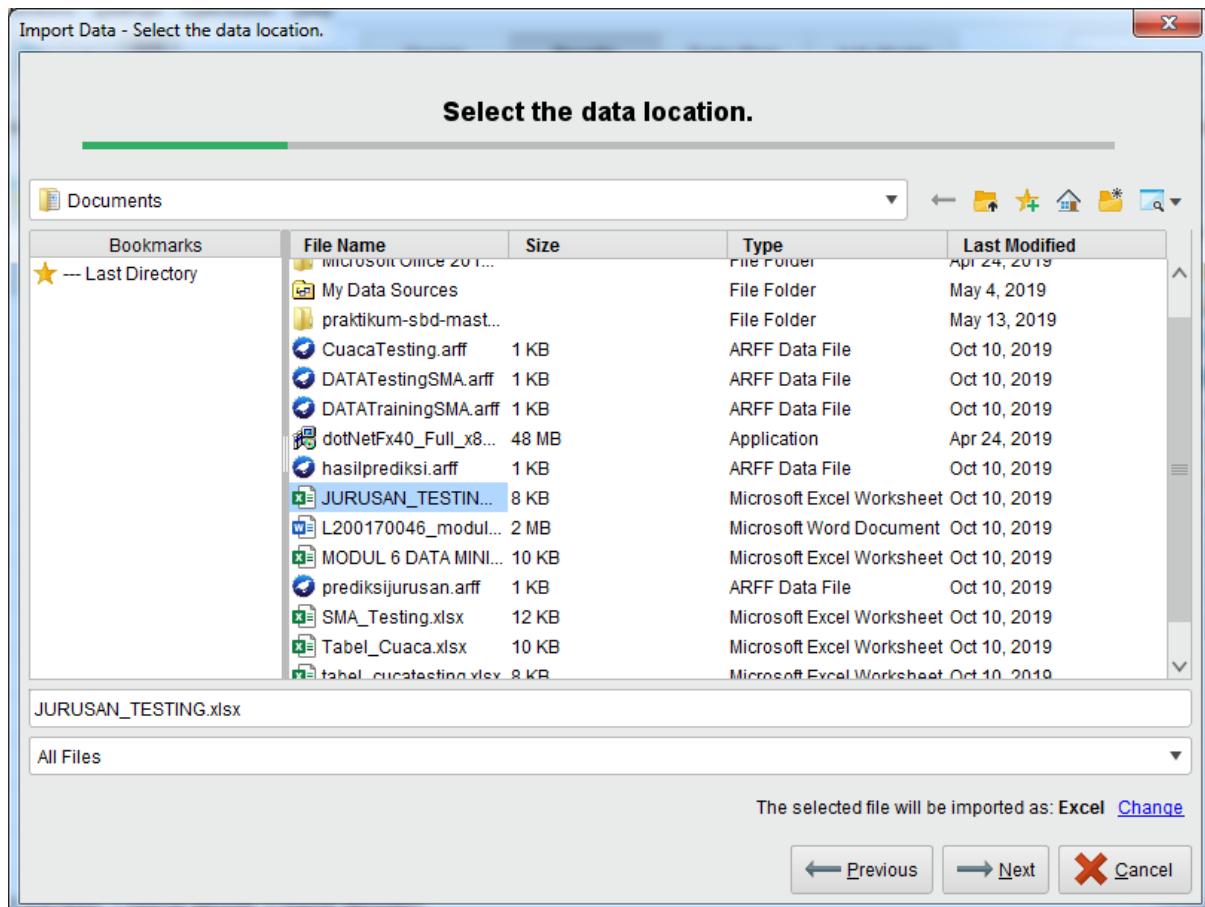
- + Import Data
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - dataaa (LABSI-04 - v1, 10/10/19 1:56)
 - DataCuaca_Testing (LABSI-04 - v1)
 - DataCuaca_Training (LABSI-04 - v1)
 - dajurusan_training (LABSI-04 - v1)

Data

Open in Turbo Prep Auto Model Filter (20 / 20 examples): all

Row No.	Lama_Studi	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_SKS	Asisten
1	TERLAMBAT	IPS	WANITA	SURAKARTA	18	TIDAK
2	TEPAT	IPA	PRIA	SURAKARTA	19	YA
3	TERLAMBAT	LAIN	PRIA	SURAKARTA	19	TIDAK
4	TERLAMBAT	IPA	PRIA	LUAR	17	TIDAK
5	TEPAT	IPA	WANITA	SURAKARTA	17	TIDAK
6	TEPAT	IPA	WANITA	LUAR	18	YA
7	TERLAMBAT	IPA	PRIA	SURAKARTA	18	TIDAK
8	TEPAT	IPA	PRIA	SURAKARTA	19	TIDAK
9	TERLAMBAT	IPS	PRIA	LUAR	18	TIDAK
10	TEPAT	LAIN	WANITA	SURAKARTA	18	TIDAK
11	TEPAT	IPA	WANITA	SURAKARTA	19	TIDAK
12	TEPAT	IPS	PRIA	SURAKARTA	20	TIDAK
13	TEPAT	IPS	PRIA	SURAKARTA	19	TIDAK

ExampleSet (20 examples, 1 special attribute, 5 regular attributes)



Import Data - Select the cells to import.

Select the cells to import.

Sheet: Sheet1 ▾ Cell range: A:E Select All Define header row: 1

	A	B	C	D	E
1	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_Sekolah	Asisten
2	LAIN	WANITA	SURAKARTA	18.000	TIDAK
3	IPA	PRIA	SURAKARTA	19.000	YA
4	LAIN	PRIA	SURAKARTA	19.000	TIDAK
5	IPS	PRIA	LUAR	17.000	TIDAK
6	LAIN	WANITA	SURAKARTA	17.000	TIDAK
7	IPA	WANITA	LUAR	18.000	YA
8	IPA	PRIA	SURAKARTA	18.000	TIDAK
9	IPA	PRIA	SURAKARTA	19.000	TIDAK
10	IPS	PRIA	LUAR	18.000	TIDAK
11	LAIN	WANITA	SURAKARTA	18.000	TIDAK

← Previous → Next X Cancel

Import Data - Format your columns.

Format your columns.

Replace errors with missing values ⓘ

	Jurusan_SMA <i>polynomial</i>	Gender <i>polynomial</i>	Asal_Sekolah <i>polynomial</i>	Rerata_Sekolah <i>integer</i>	Asisten <i>polynomial</i>
1	LAIN	WANITA	SURAKARTA	18	TIDAK
2	IPA	PRIA	SURAKARTA	19	YA
3	LAIN	PRIA	SURAKARTA	19	TIDAK
4	IPS	PRIA	LUAR	17	TIDAK
5	LAIN	WANITA	SURAKARTA	17	TIDAK
6	IPA	WANITA	LUAR	18	YA
7	IPA	PRIA	SURAKARTA	18	TIDAK
8	IPA	PRIA	SURAKARTA	19	TIDAK
9	IPS	PRIA	LUAR	18	TIDAK
10	LAIN	WANITA	SURAKARTA	18	TIDAK

 no problems.

 Previous  Next  Cancel

Import Data - Where to store the data?

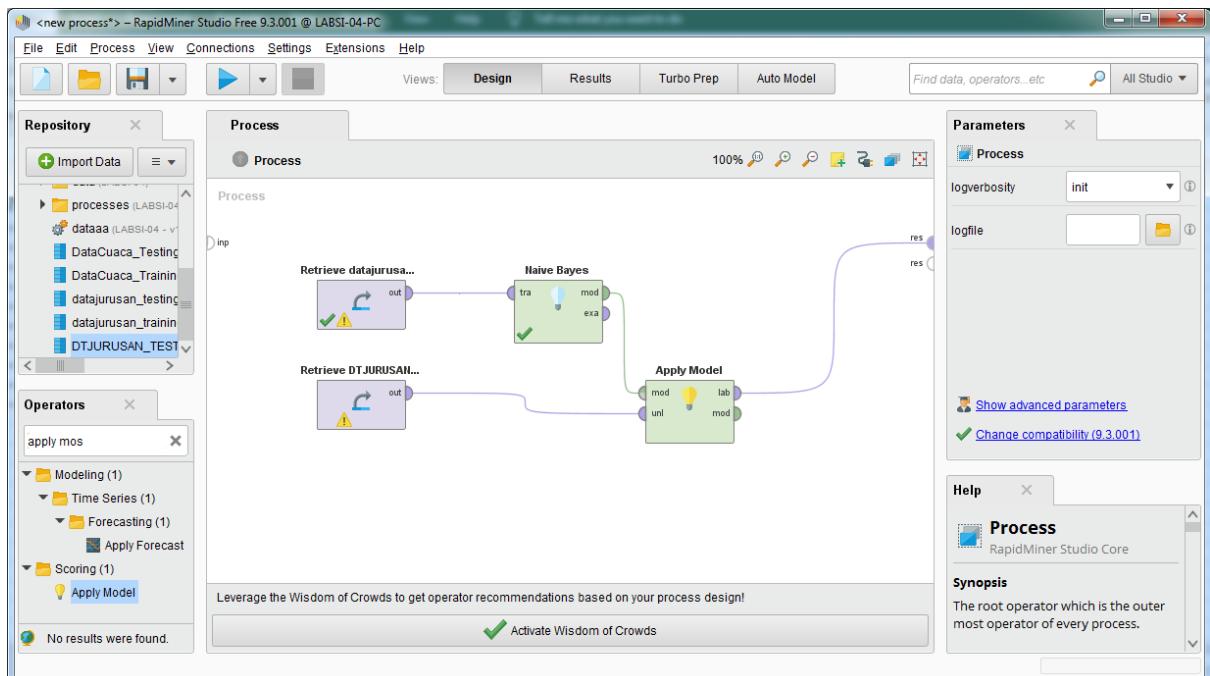
Where to store the data?

- Local Repository (LABSI-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - dataaa (LABSI-04 - v1, 10/10/19 1:56 PM - 2 kB)
 - DataCuaca_Testing (LABSI-04 - v1, 10/10/19 1:28 PM - 359 bytes)
 - DataCuaca_Training (LABSI-04 - v1, 10/10/19 1:18 PM - 529 bytes)
 - datajurusan_training (LABSI-04 - v1, 10/10/19 2:01 PM - 675 bytes)

Name

Location //Local Repository/datajurusan_testing

 Previous  Finish  Cancel



RapidMiner Studio Free 9.3.001 @ LABSI-04-PC

Result History

Row No.	prediction(L...	confidence(...	confidence(...	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_SKS	Asi
1	TERLAMBAT	0.648	0.352	LAIN	WANITA	SURAKARTA	18	TID
2	TEPAT	0.005	0.995	IPA	PRIA	SURAKARTA	19	YA
3	TERLAMBAT	0.650	0.350	LAIN	PRIA	SURAKARTA	19	TID
4	TERLAMBAT	0.868	0.132	IPS	PRIA	LUAR	17	TID
5	TERLAMBAT	0.738	0.262	LAIN	WANITA	SURAKARTA	17	TID
6	TEPAT	0.005	0.995	IPA	WANITA	LUAR	18	YA
7	TERLAMBAT	0.547	0.453	IPA	PRIA	SURAKARTA	18	TID
8	TEPAT	0.321	0.679	IPA	PRIA	SURAKARTA	19	TID
9	TERLAMBAT	0.811	0.189	IPS	PRIA	LUAR	18	TID
10	TERLAMBAT	0.648	0.352	LAIN	WANITA	SURAKARTA	18	TID

ExampleSet (10 examples, 3 special attributes, 5 regular attributes)

Repository

- Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB (Legacy)
 - Local Repository (LABSI-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - dataaa (LABSI-04 - v1, 10/10/19 1:56)
 - DataCuaca_Testing (LABSI-04 - v1)
 - DataCuaca_Training (LABSI-04 - v1)
 - datajurusan_testing (LABSI-04 - v1)
 - datajurusan_training (LABSI-04 - v1)
 - DTJURUSAN_TESTING (LABSI-04)

The screenshot shows two windows side-by-side. On the left is the 'RapidMiner Studio' interface with a toolbar at the top and a main panel below. The main panel displays 'Result History' and 'ExampleSet (Apply Model)'. Under 'Statistics', it shows various metrics for attributes like Jurusan_SMA, Gender, Asisten_SKS, and Rerata_SKS. On the right is an 'ARFF-Viewer' window titled 'HasilPrediksi_Siswa.arff' showing a table of student predictions. The columns are labeled: No., 1: Jurusan_SMA (Nominal), 2: Gender (Nominal), 3: Asal_sekolah (Nominal), 4: Rerata_SKS (Numeric), 5: Asisten_SKS (Nominal), 6: prediction margin (Numeric), 7: predicted Lama_Studi (Nominal), and 8: L (Nominal). The data rows show various combinations of attributes and their predicted outcomes.

No.	1: Jurusan_SMA	2: Gender	3: Asal_sekolah	4: Rerata_SKS	5: Asisten_SKS	6: prediction margin	7: predicted Lama_Studi	8: L
1	LAIN	WANITA	SURAKARTA	18.0	TIDAK	0.375862	TERLAMBAT	
2	IPA	PRIA	SURAKARTA	19.0	YA	-0.836469	TEPAT	
3	LAIN	PRIA	SURAKARTA	19.0	TIDAK	0.175169	TERLAMBAT	
4	IPS	PRIA	LUAR	17.0	TIDAK	0.713206	TERLAMBAT	
5	LAIN	WANITA	SURAKARTA	17.0	TIDAK	0.546446	TERLAMBAT	
6	IPA	WANITA	LUAR	18.0	YA	-0.757815	TEPAT	
7	IPA	PRIA	SURAKARTA	18.0	TIDAK	0.125076	TERLAMBAT	
8	IPA	PRIA	SURAKARTA	19.0	TIDAK	-0.356012	TEPAT	
9	IPS	PRIA	LUAR	18.0	TIDAK	0.588286	TERLAMBAT	
10	LAIN	WANITA	SURAKARTA	18.0	TIDAK	0.375862	TERLAMBAT	

No. 4

Rerata confidence TEPAT = 0.476

Rerata confodence TERLAMBAT = 0.524

No. 5

Jml lulus TEPAT = 3

Jml lulus TERLAMBAT = 7

No. 6 & 7

The screenshot shows the RapidMiner Studio interface. The main window displays a Data view with a table of two rows. The table has columns: Row No., prediction(L...), confidence(...), confidence(...), Jurusan_SMA, Gender, Asal_Sekolah, Rerata_Sek..., and Asisten. Rows 1 and 2 both show 'TEPAT' in the prediction column. The confidence values are 0.298 and 0.076 respectively. The Jurusan_SMA column shows 'IPA' and 'LAIN'. The Gender column shows 'WANITA' and 'PRIA'. The Asal_Sekolah column shows 'LUAR' and 'SURAKARTA'. The Rerata_Sek... and Asisten columns show '18' and 'YA' respectively. A status bar at the bottom indicates 'Downloading Parameter Statistics'.

Repository view on the right shows a tree structure of training resources, samples, community samples, DB (Legacy), and Local Repository (LABSI-03). Under Local Repository, it lists Connections, data, and processes. The 'Processes' node is expanded, showing five entries: DataCuaca_Testing, DataCuaca_Training, DataSMA_Testing, DataSMA_Training, and TugasSMA_Testing. The TugasSMA_Testing entry is highlighted in blue.

Row No.	prediction(L...)	confidence(...)	confidence(...)	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_Sek...	Asisten
1	TEPAT	0.298	0.702	IPA	WANITA	LUAR	18	YA
2	TEPAT	0.076	0.924	LAIN	PRIA	SURAKARTA	17	YA

ExampleSet (2 examples, 3 special attributes, 5 regular attributes)

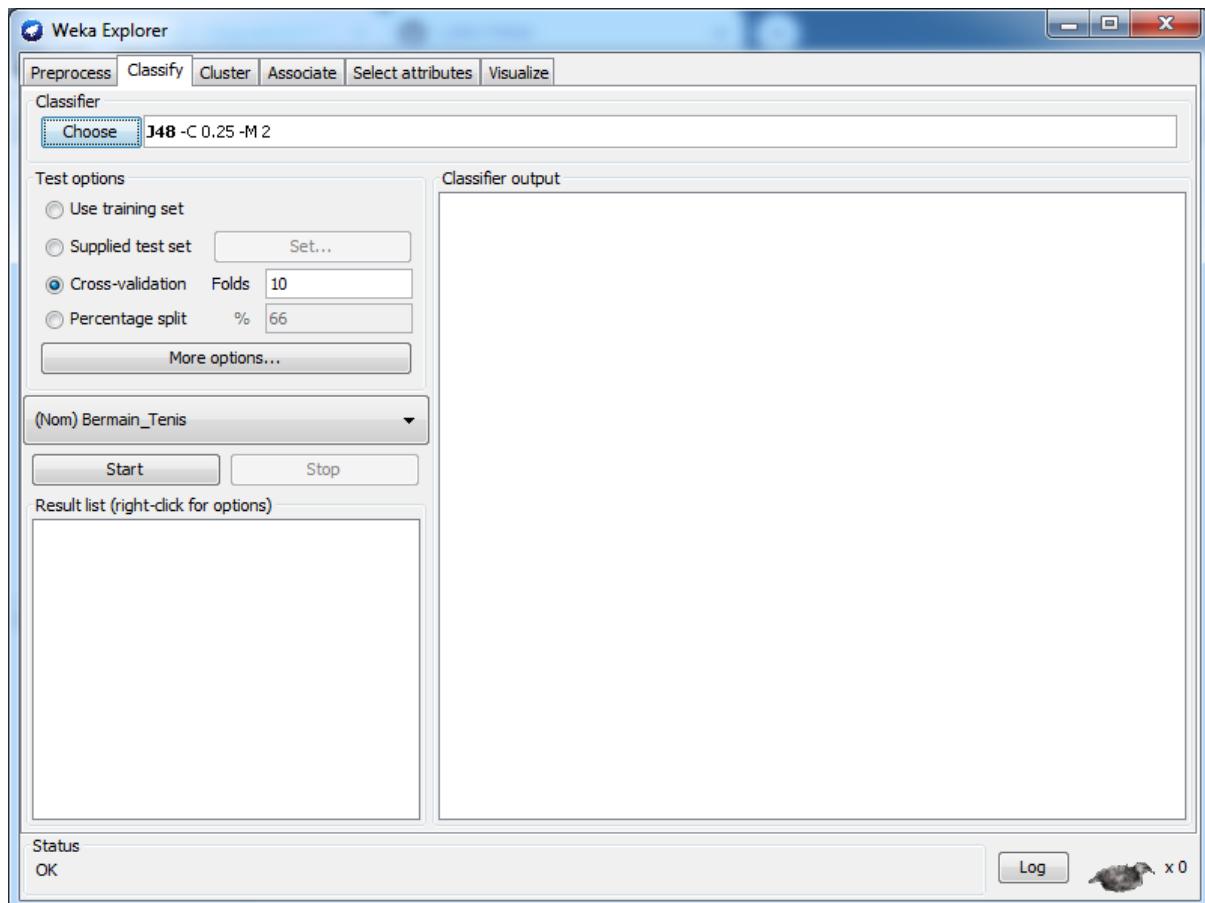
IN 11:42 02/10/2019

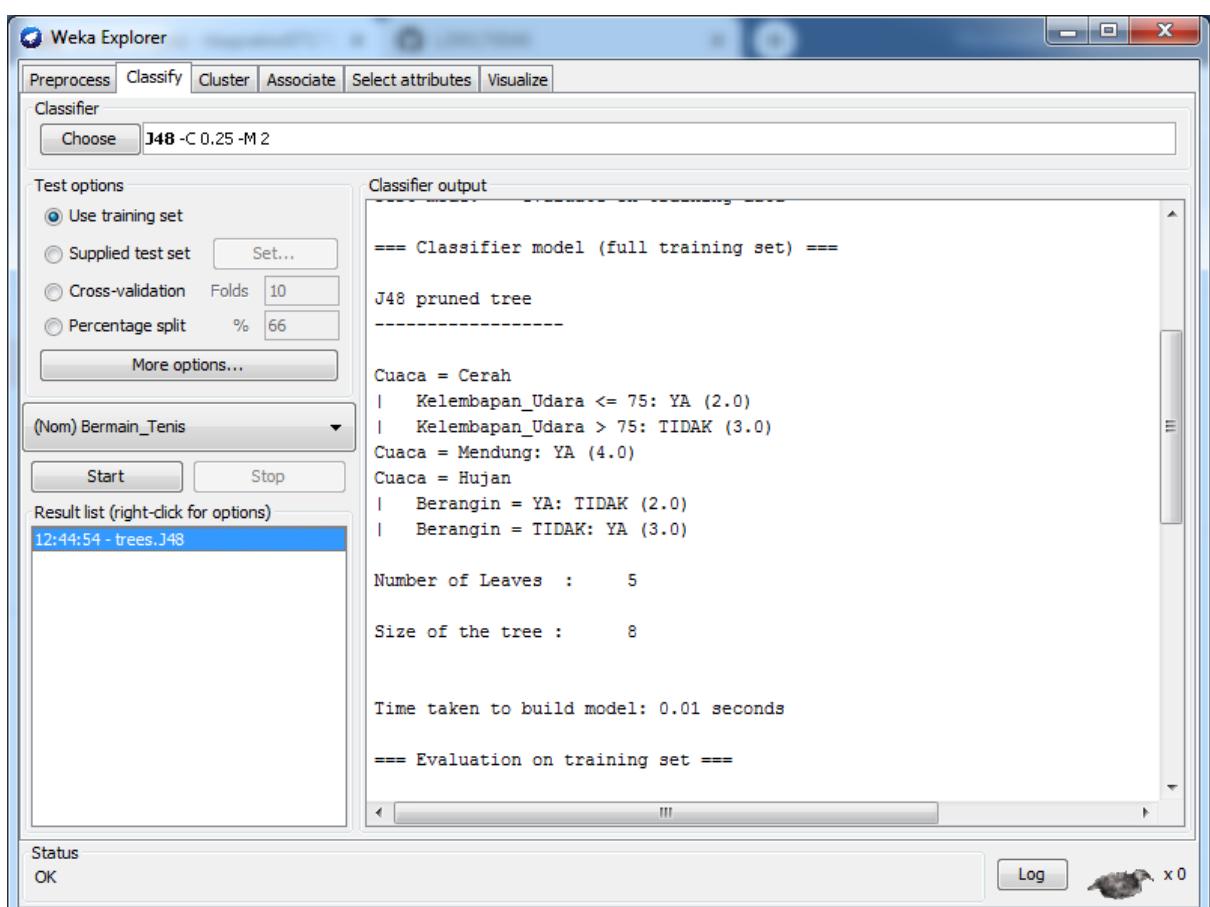
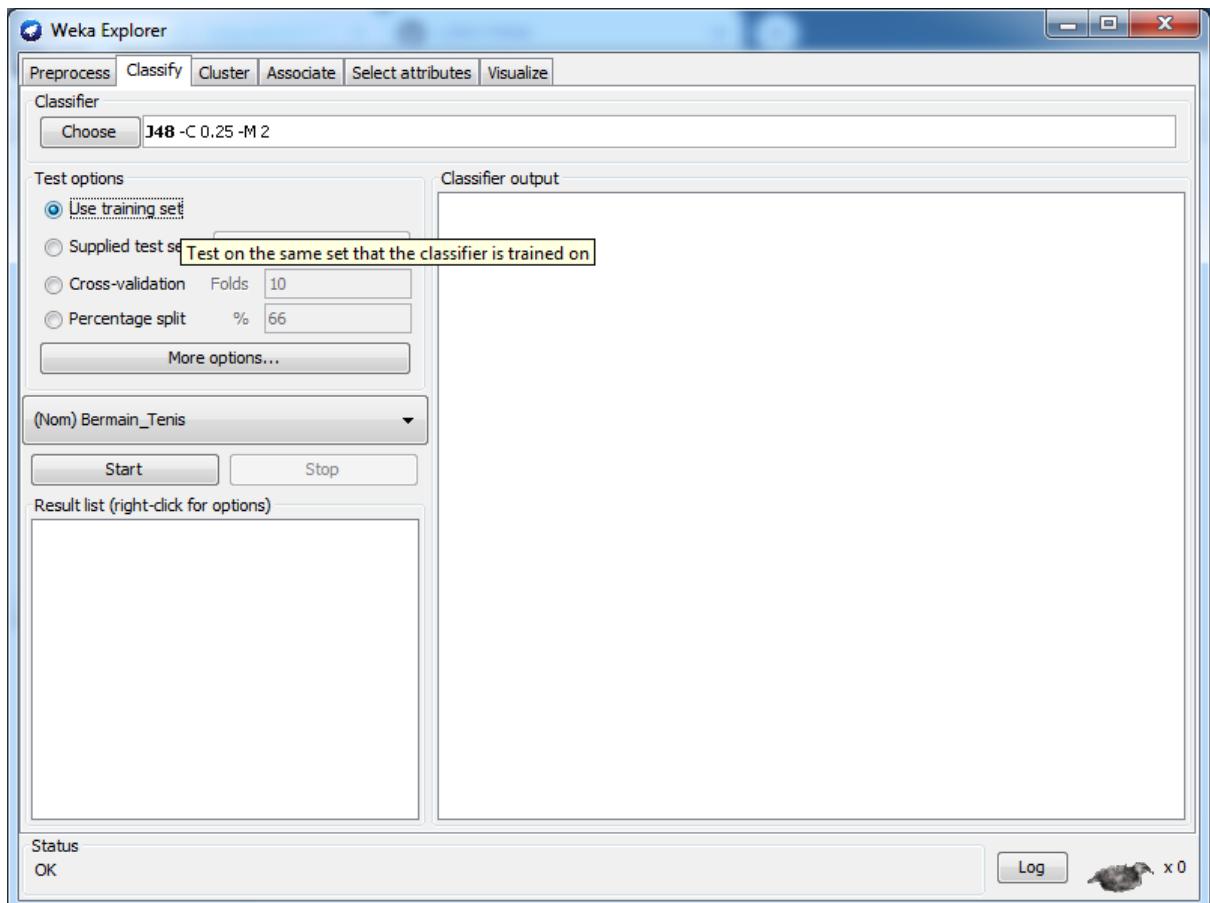
Nama : Tika Pratiwi

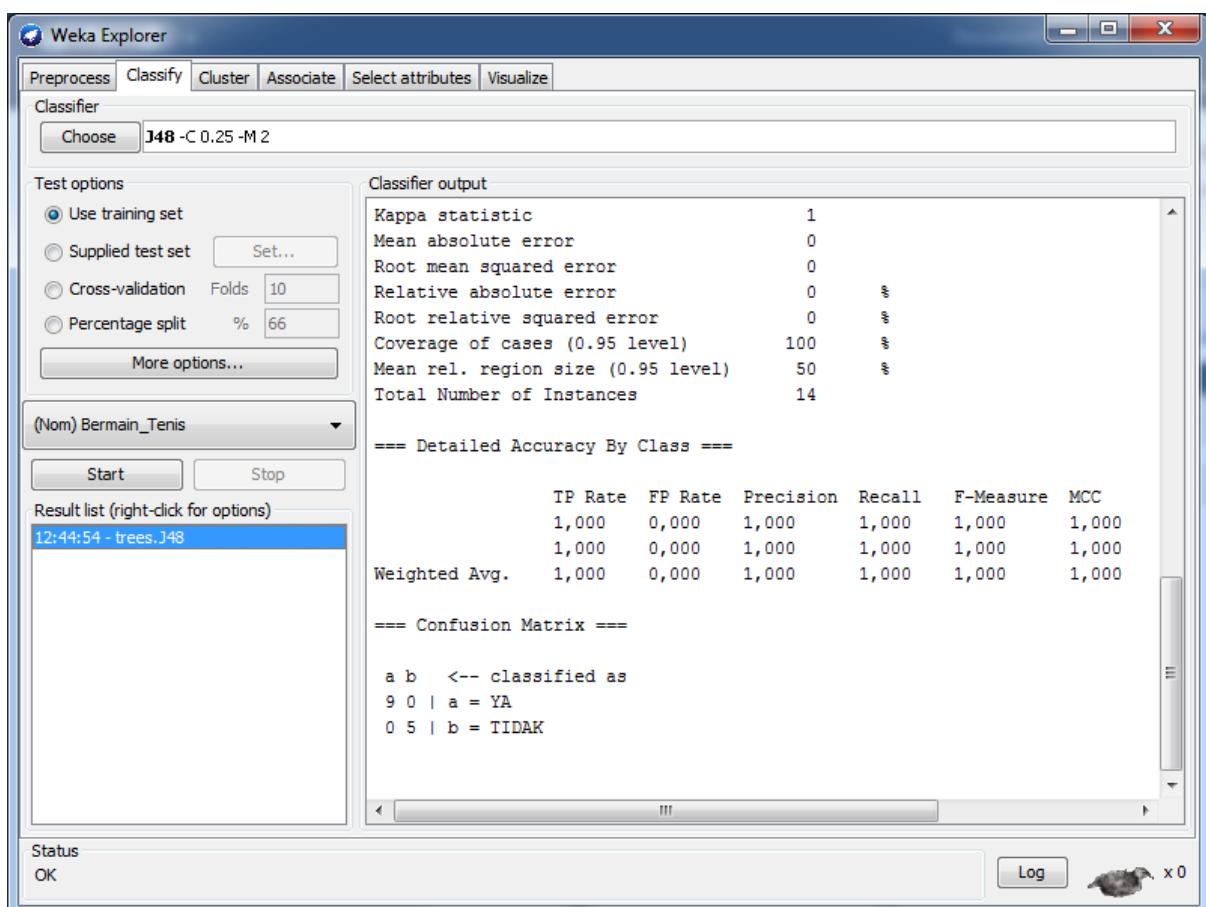
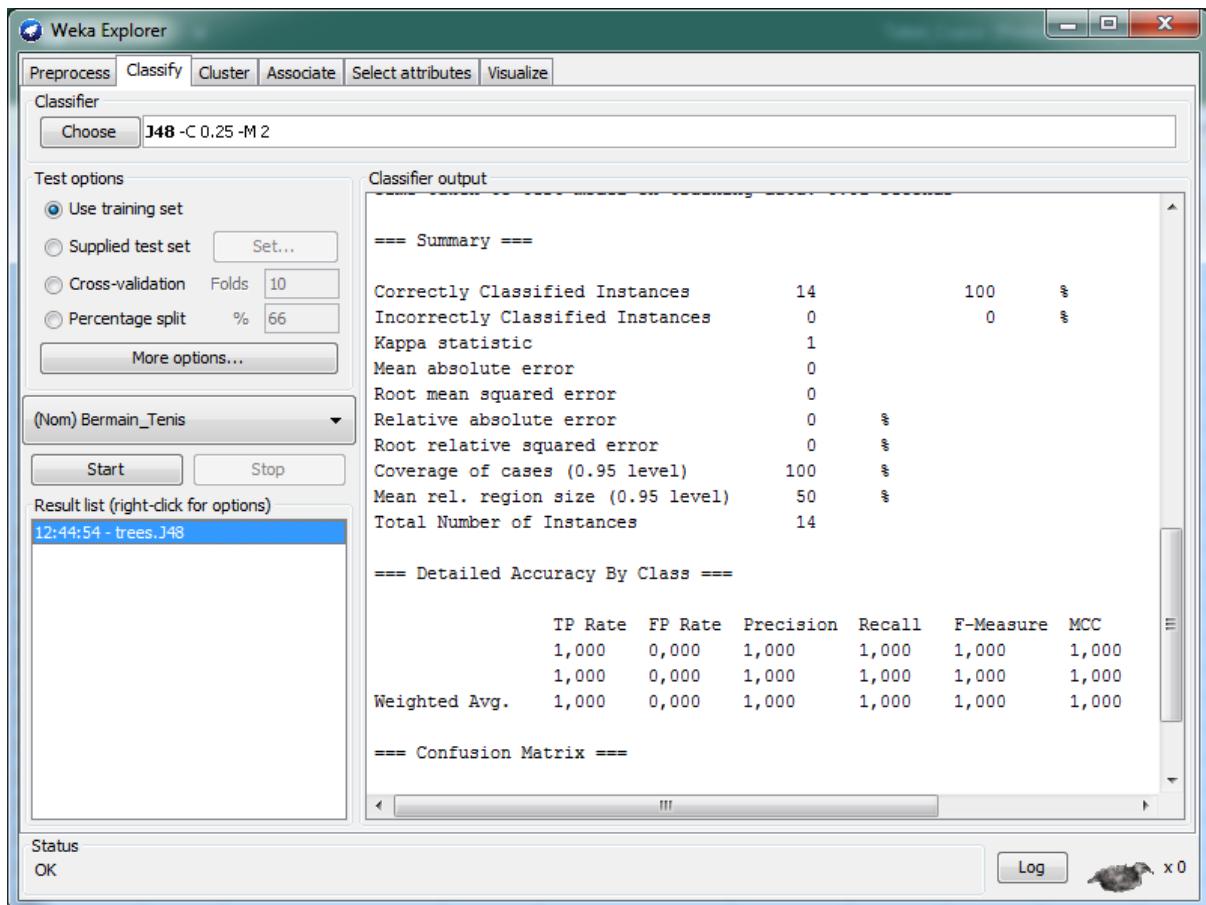
NIM : L200170046

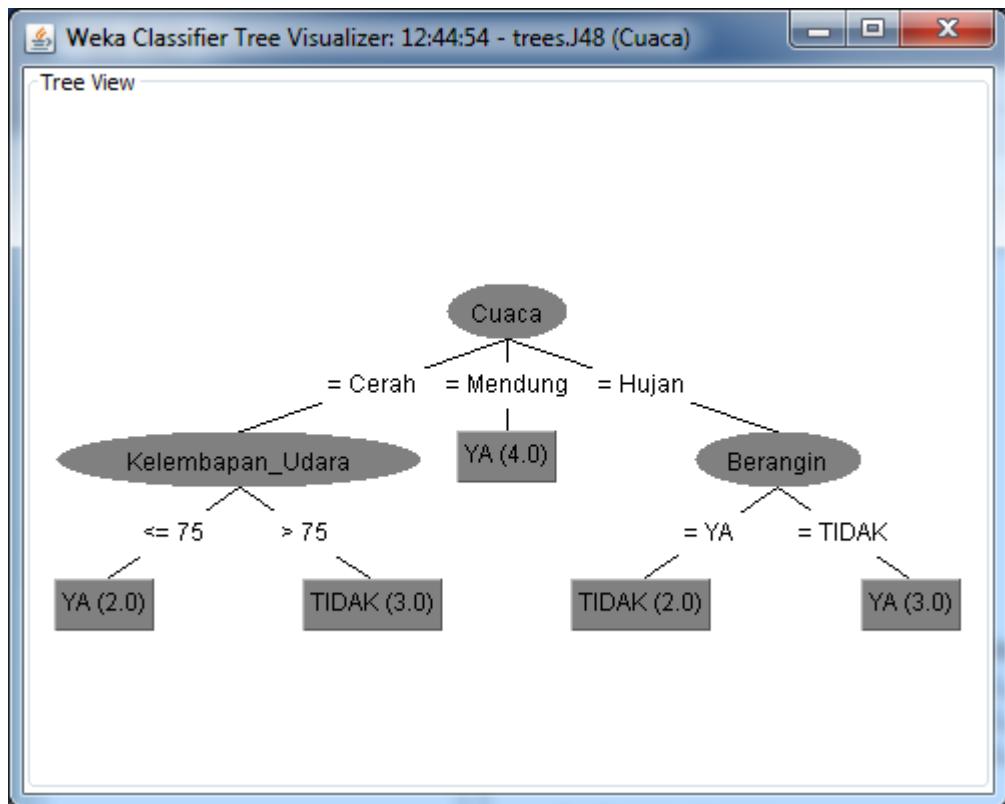
Kelas : C

PERCOBAAN









Welcome to RapidMiner Studio!

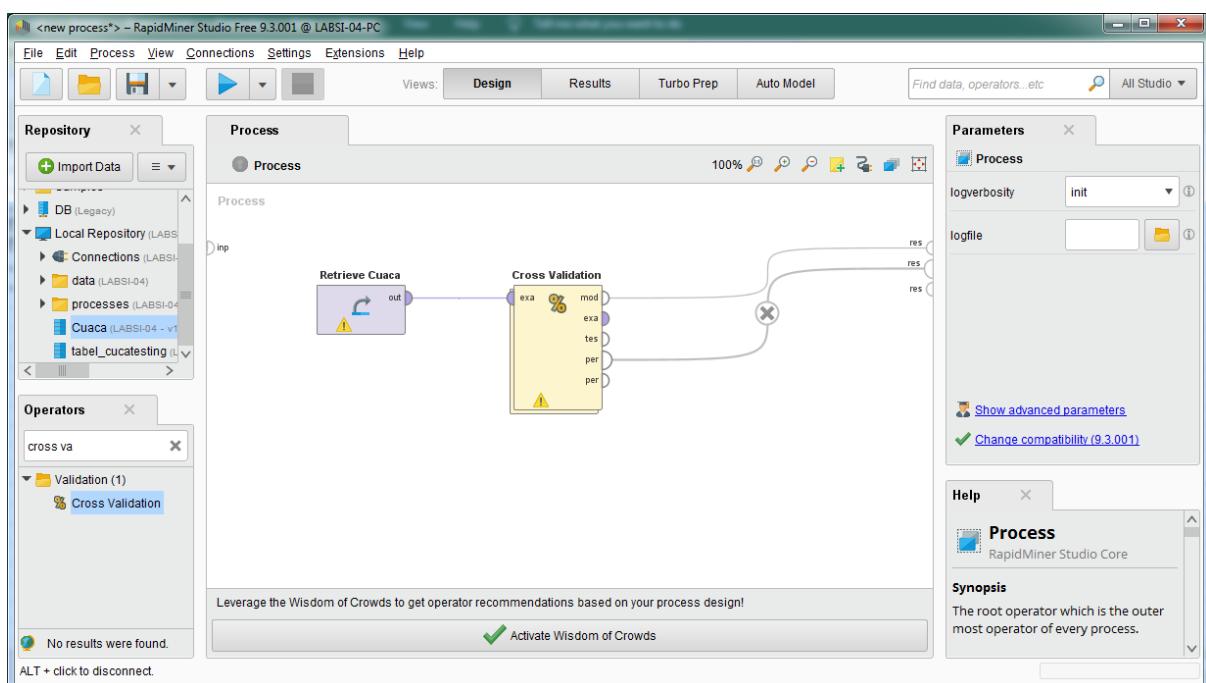
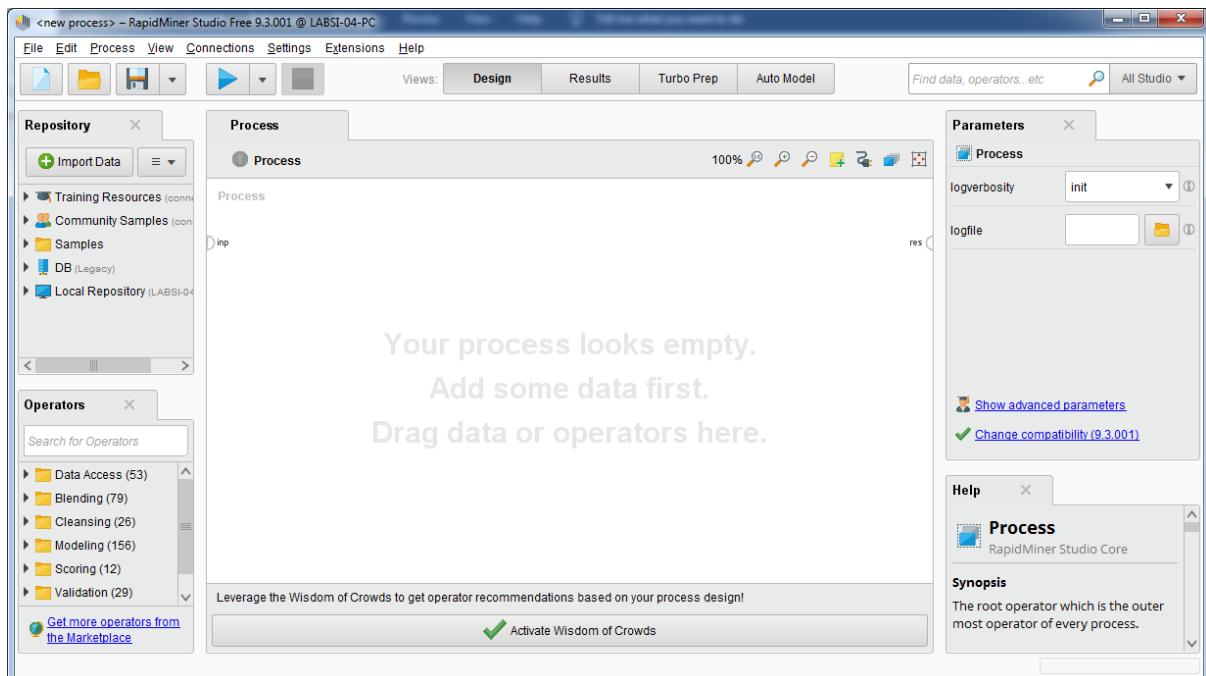
Start Recent Learn

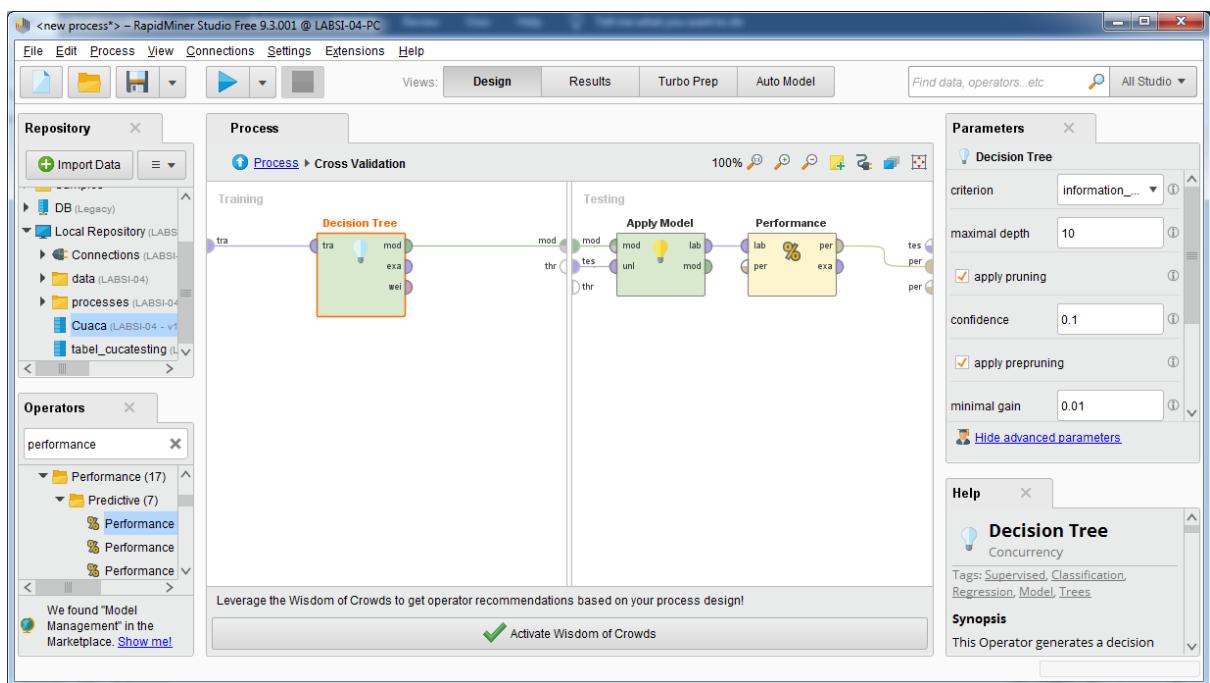
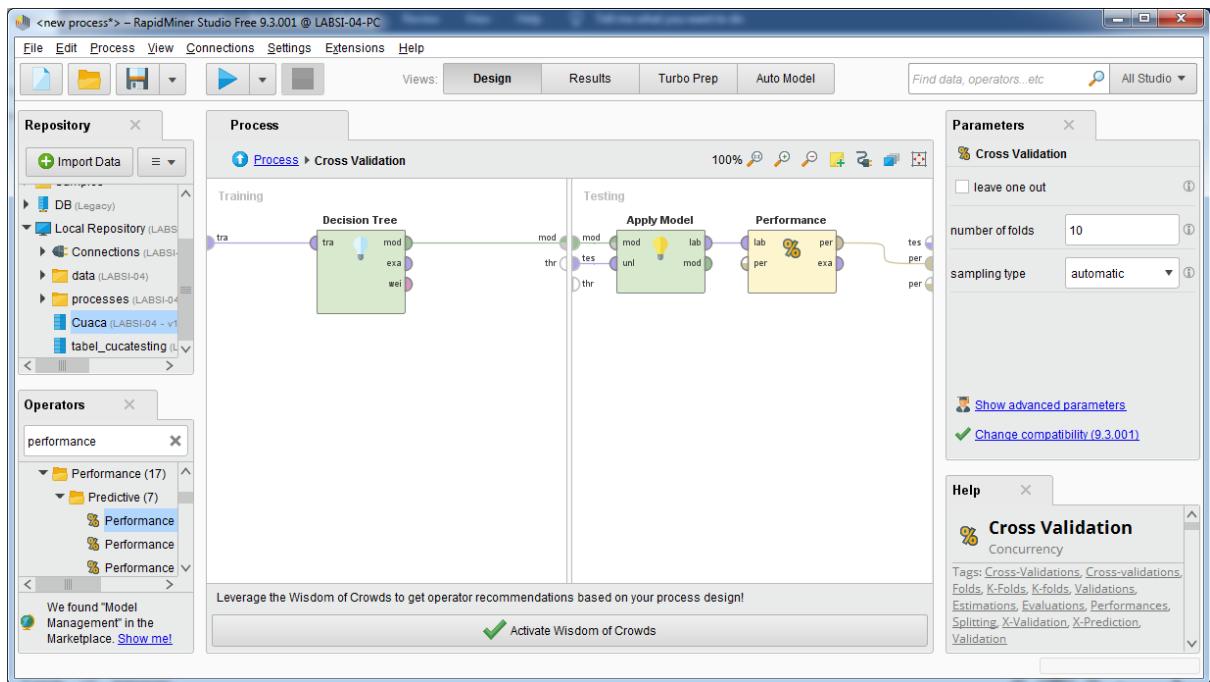
Start a new project

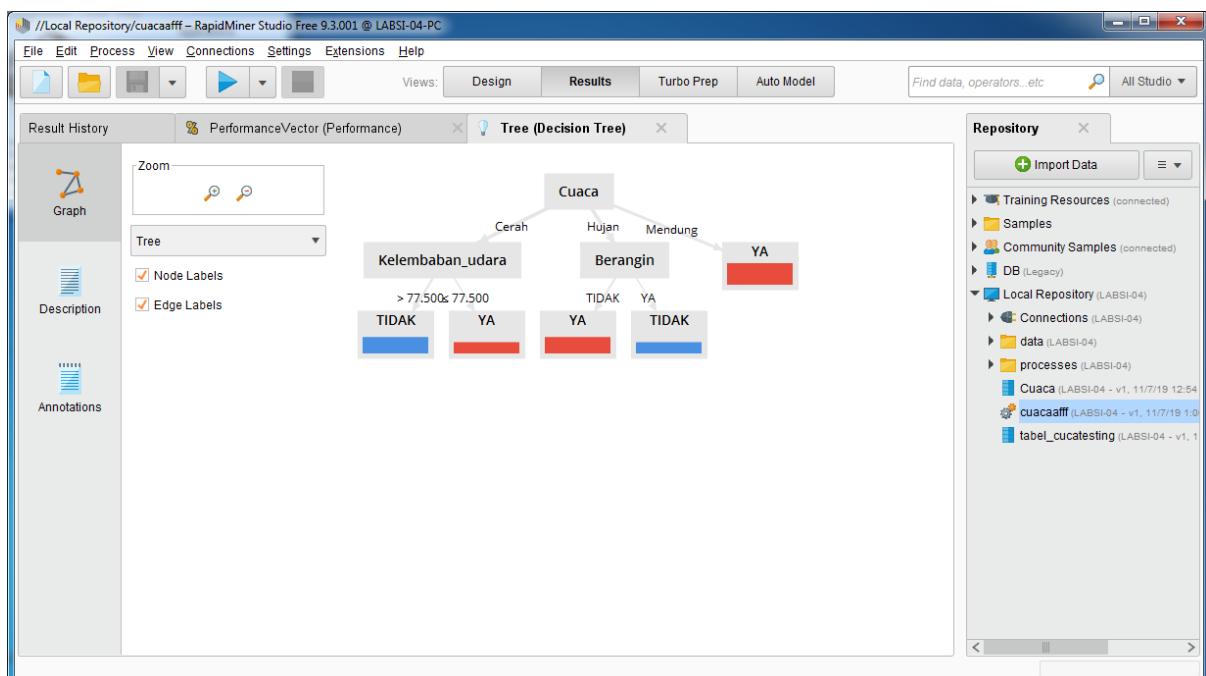
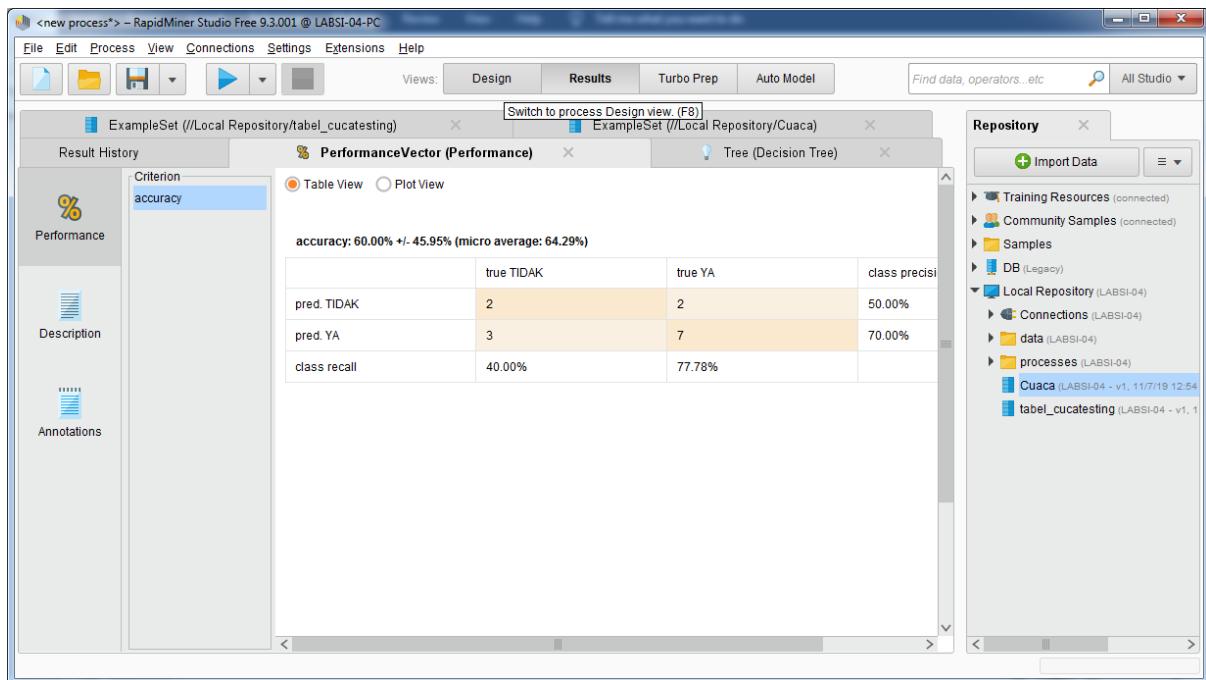
- Blank** Start a new process from scratch in the design view.
- Turbo Prep** Prepare your data interactively: transform, clean and combine data sets.
- Auto Model** Build and optimize models using automated machine learning.

Choose a template to start from

Churn Modeling Predict which of your customers will churn and why with a decision tree.	Direct Marketing Predict response to campaigns and increase the conversion rate of your campaign.	Credit Risk Modeling Model credit default risk by training an optimized Support Vector Machine (SVM) model.
Market Basket Analysis Find products frequently purchased together and turn them into rules for recommendations.	Predictive Maintenance Model equipment failures to schedule maintenance pre-emptively.	Price Risk Clustering Cluster price developments using X-Means to unveil price-risk-relationships.
Lift Chart Create a lift chart to visualize the improvement that a model provides compared to guessing.	Operationalization Embed predictive models into business processes to trigger the right actions automatically.	Outlier Detection Detect anomalies in data resulting from a chemical analysis of wines.
Geographic Distances	Medical Fraud Detection	Web Analytics

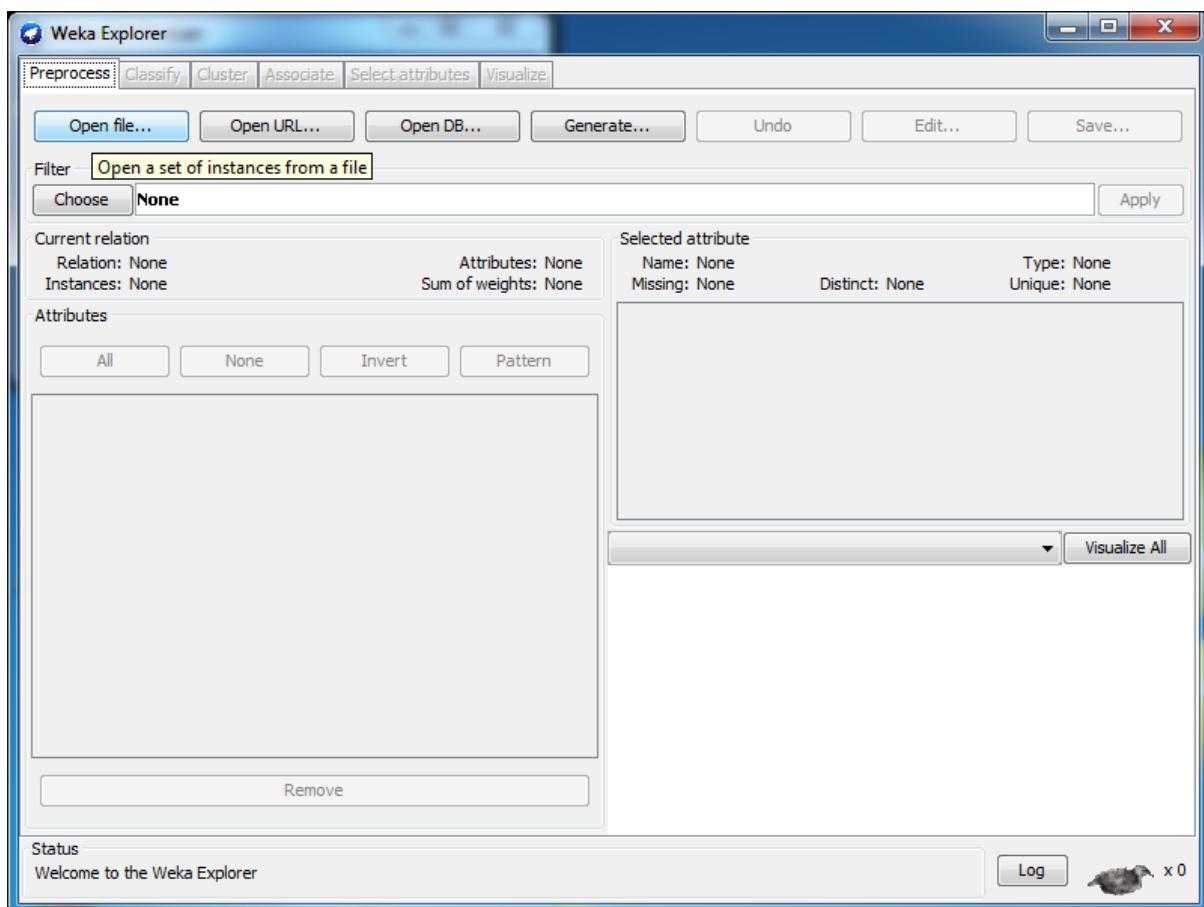


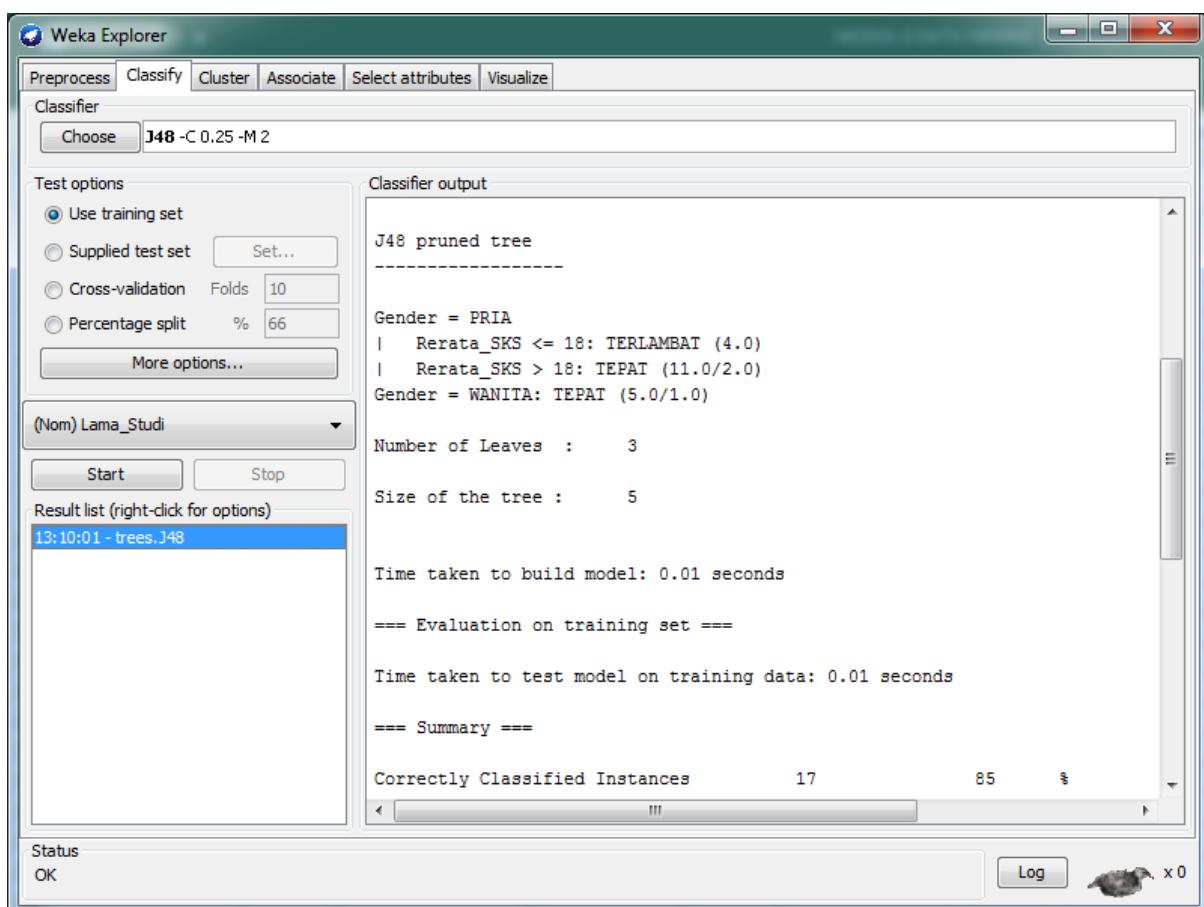
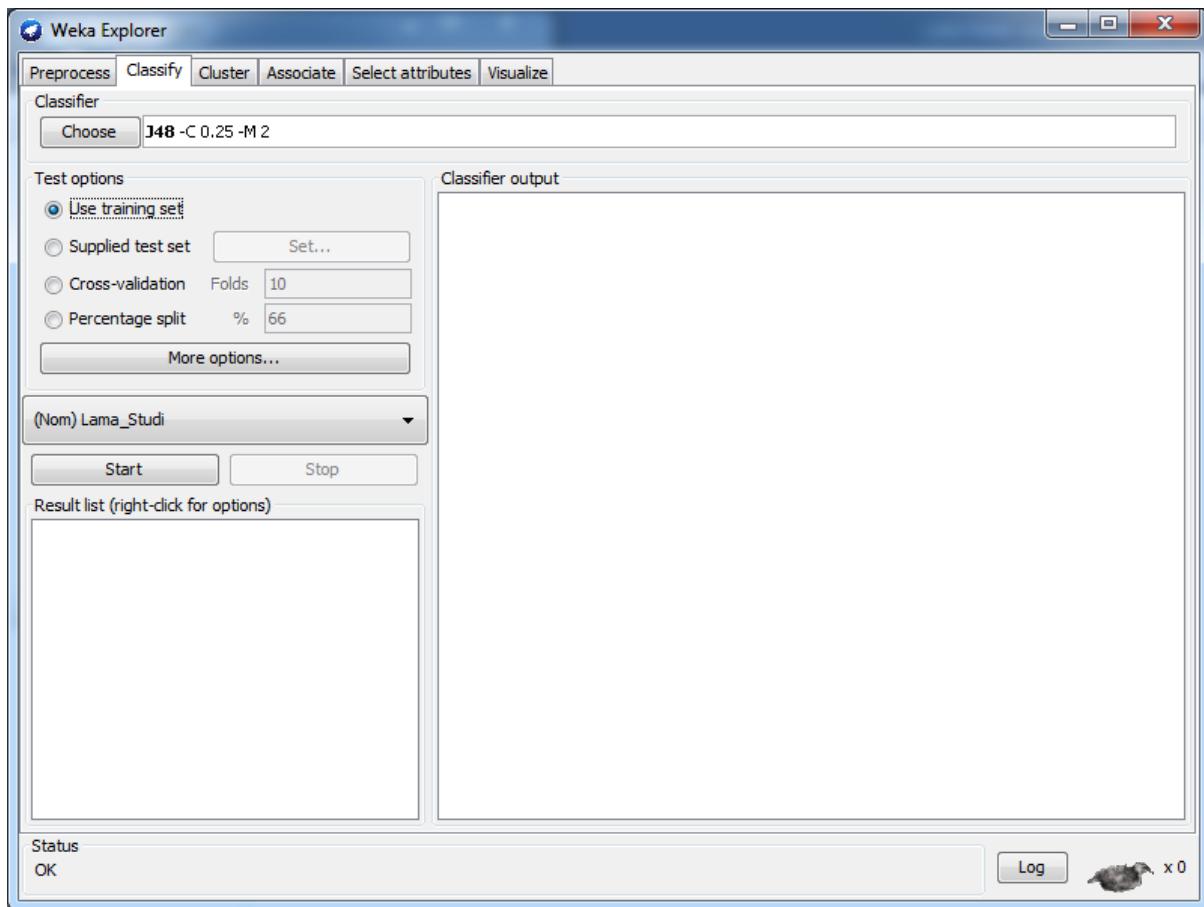


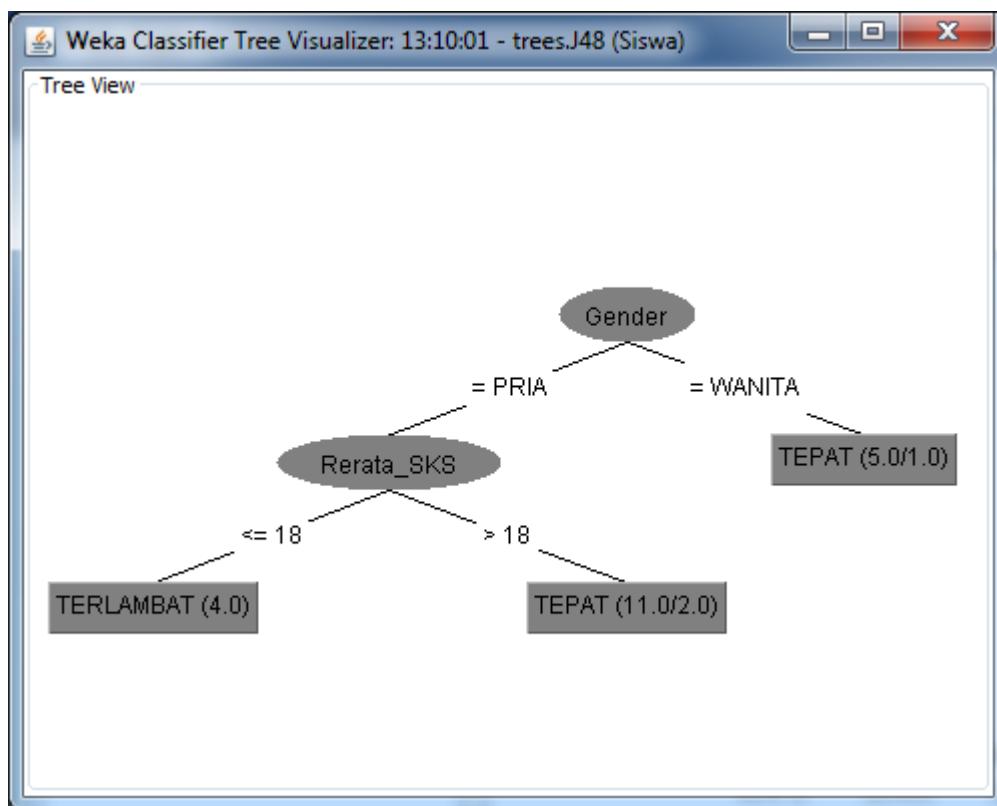
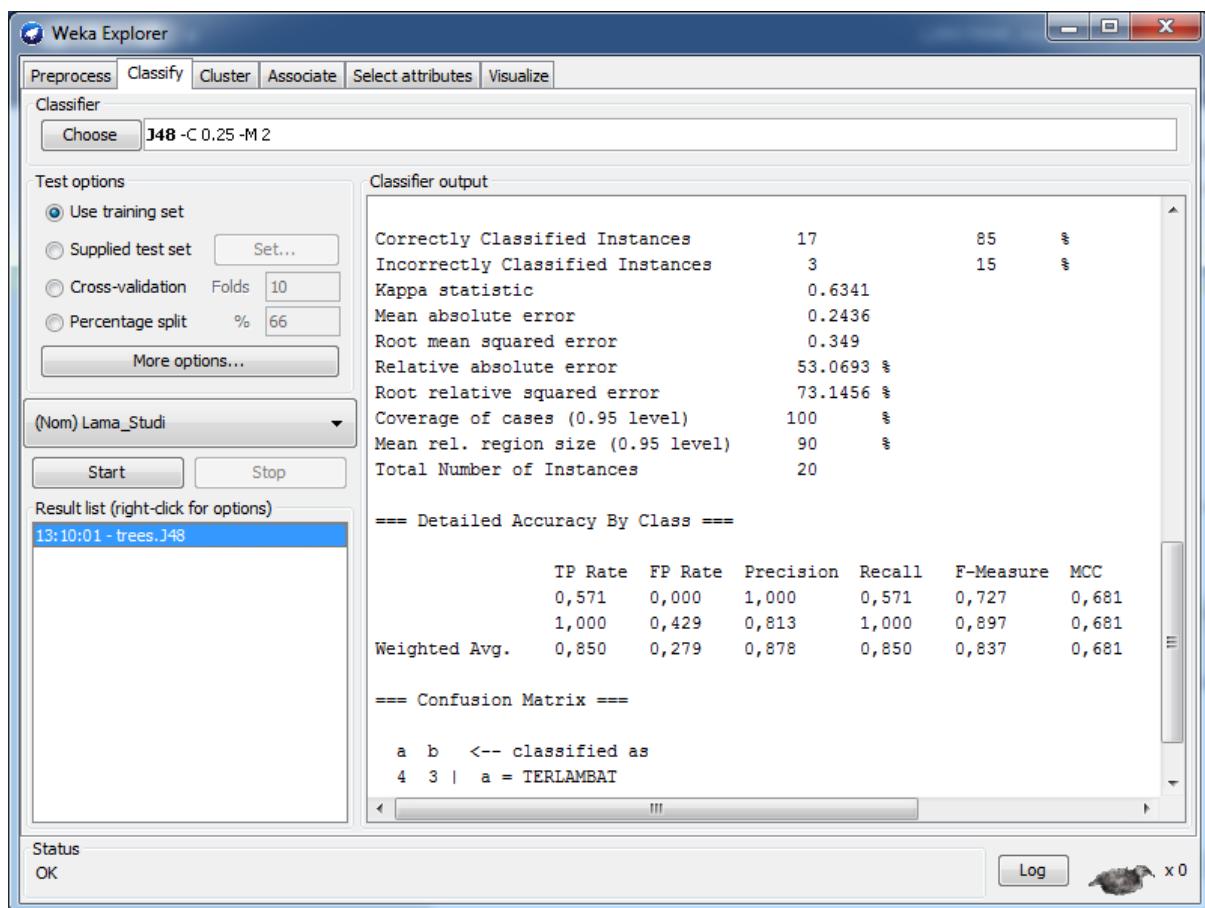


Tugas

2. a

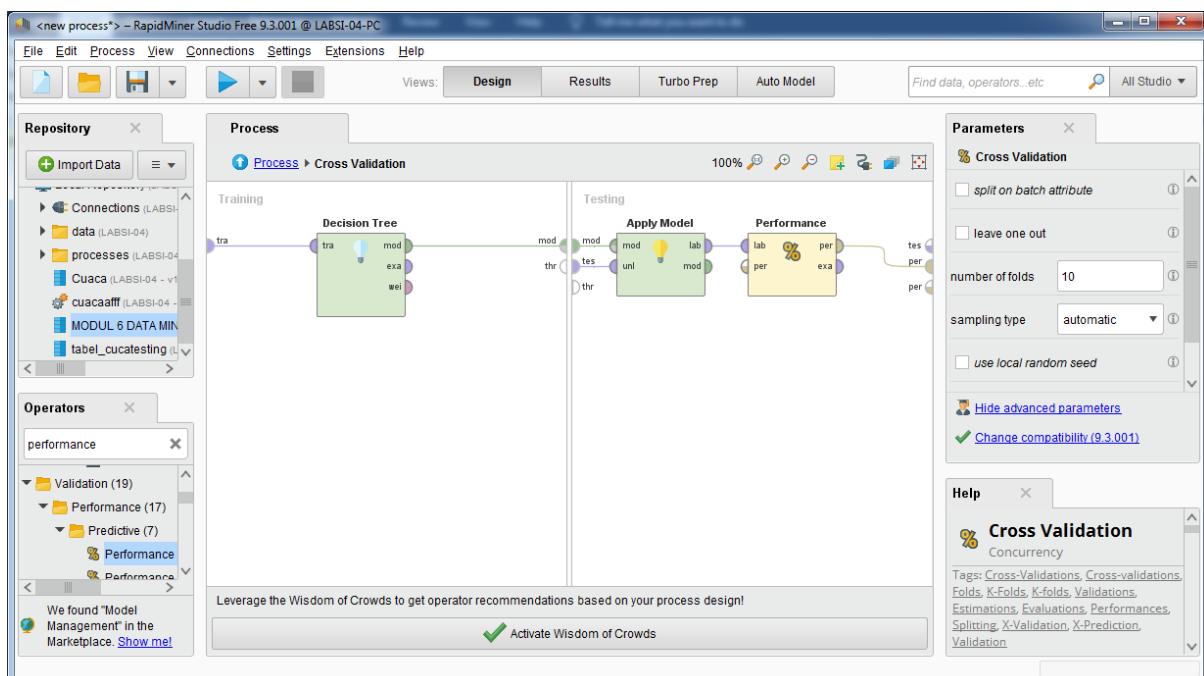
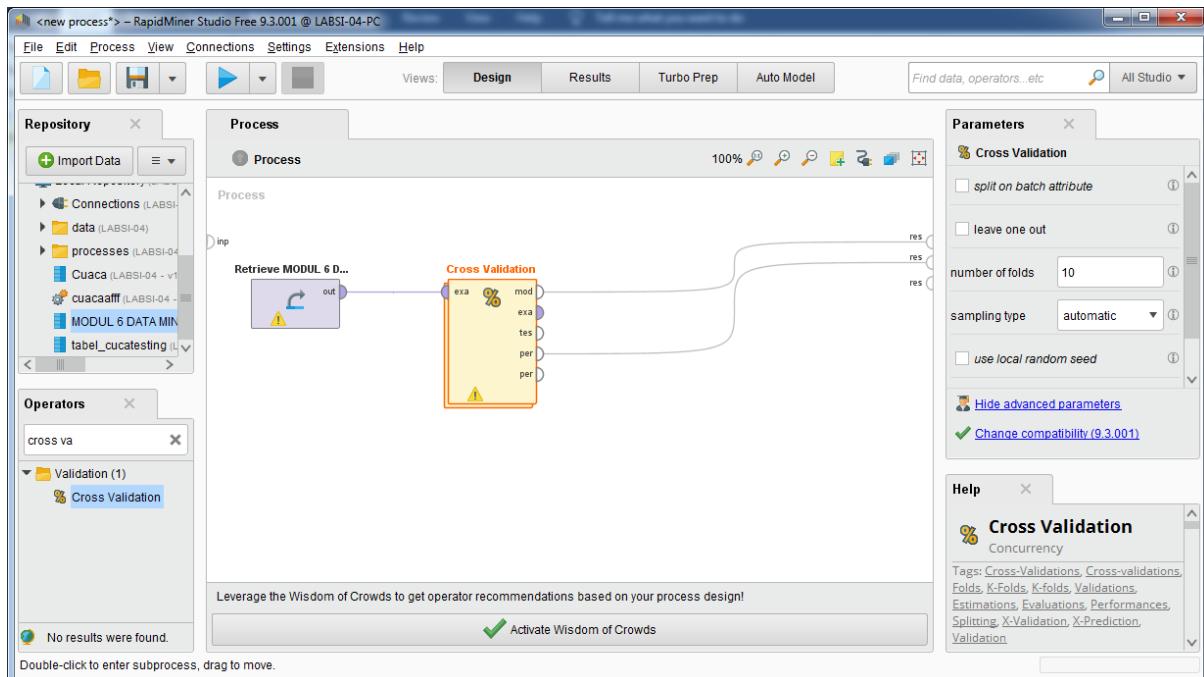


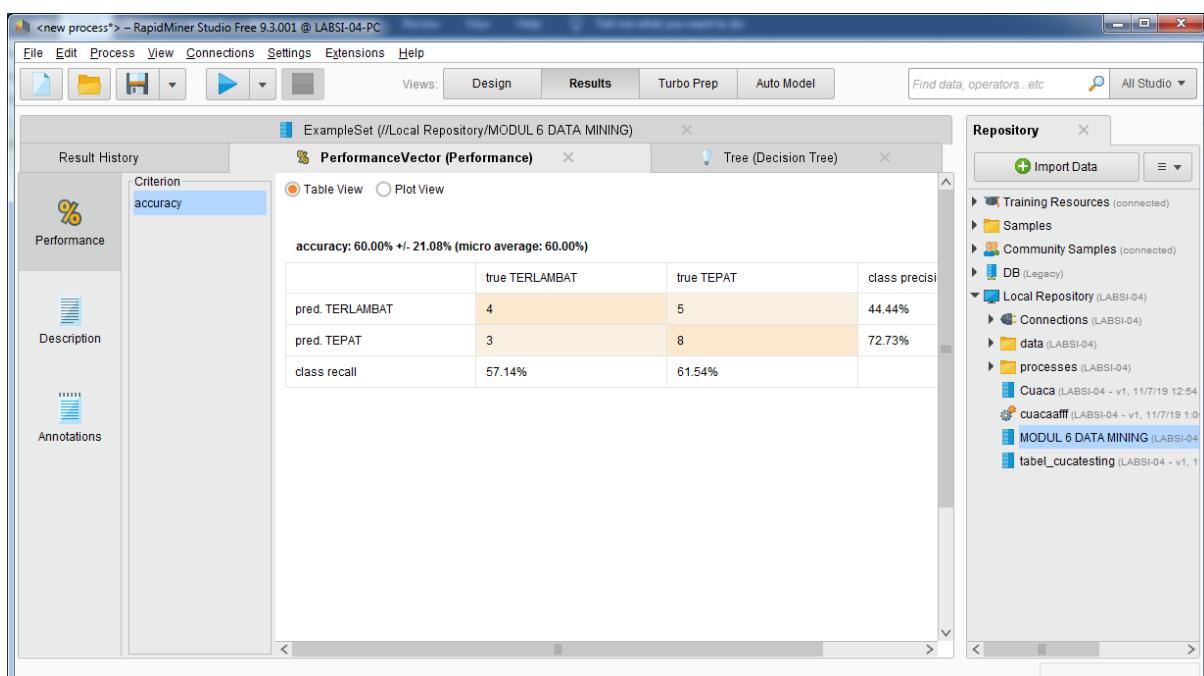
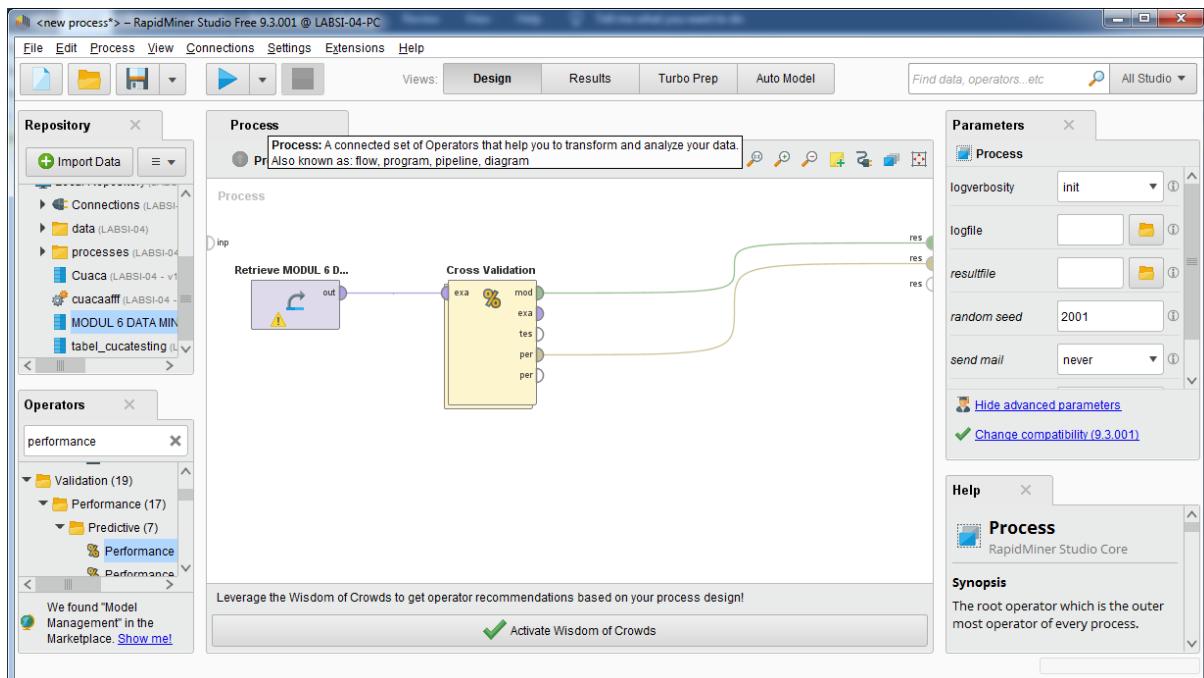


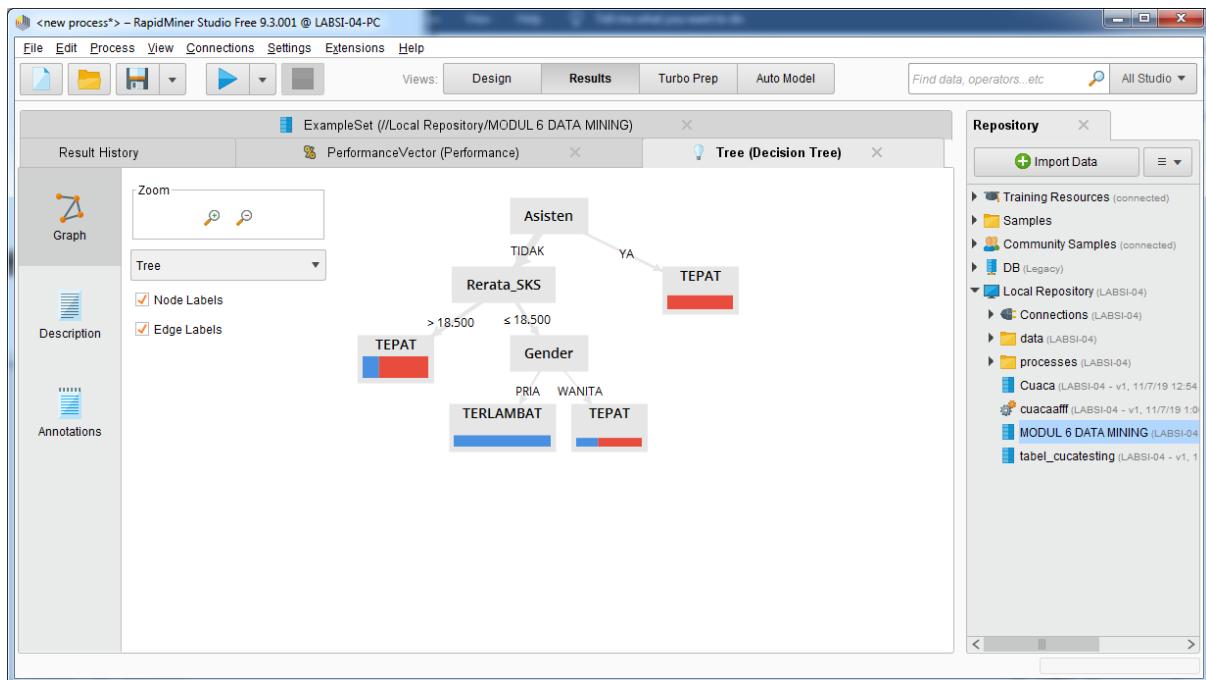


2. b. i. Jumlah simpul daun pada pohon keputusan = 3
2. b. ii. Jumlah simpul keseluruhan pada pohon keputusan = 5
2. b. iii. Waktu yang dibutuhkan untuk proses pelatihan = 0 detik
2. b. iv. Tingkat ketepatan klasifikasi = 85%
2. b. v. Tingkat ketidaktepatan klasifikasi = 15%

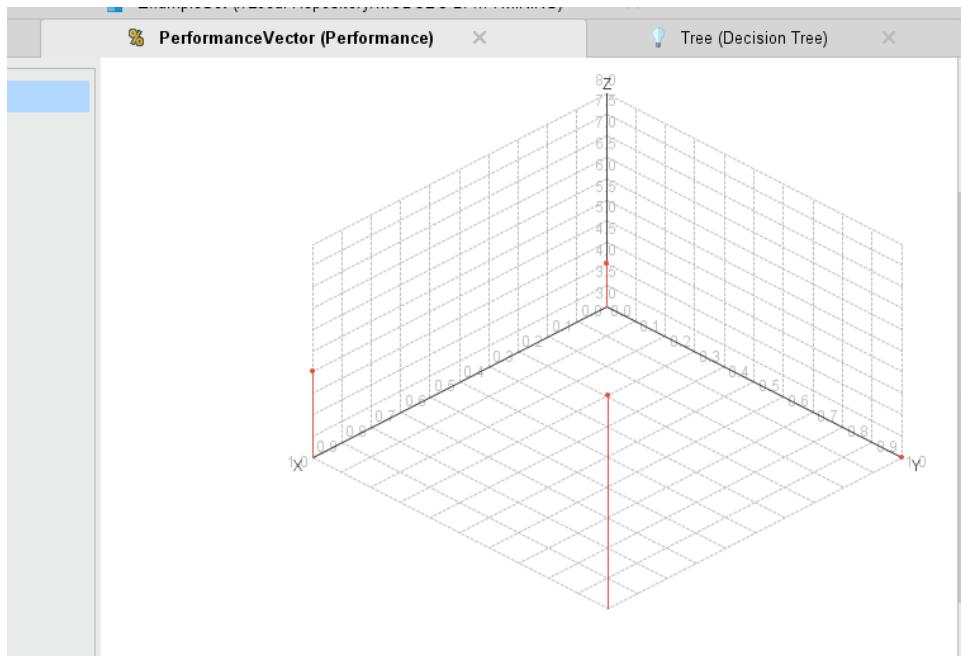
3. a







3. b



4. c. Klasifikasi yang terbentuk yaitu:

a. seseorang akan bermain (TEPAT) jika kondisi sebagai berikut:

- Gender = pria, rerata_sks >18,5. (nilai atribut lain diabaikan)
- Gender=wanita <=18,5. (nilai atribut lain diabaikan)

b. seseorang akan bermain (TERLAMBAT) jika kondisi sebagai berikut:

- i. Gender=pria, rerata_sks <=18,5 . (nilai atribut lain diabaikan)

Nama : Tika Pratiwi

NIM : L200170046

Kelas : C

Modul 10

LATIHAN

	A	B	C	D
1	NO_SISWA	NAMA	B.IND	B.ING
2	S-101	JOKO	8.54	8.40
3	S-102	AGUS	9.98	6.81
4	S-103	SUSI	6.20	9.15
5	S-104	DYAH	5.24	7.26
6	S-105	WATI	5.70	5.71
7	S-106	IKA	8.57	5.87
8	S-107	EKO	7.70	7.71
9	S-108	YANTO	6.60	5.70
10	S-109	WAWAN	9.00	8.12
11	S-110	MAHMUD	9.81	9.58
12				

Import Data - Select the cells to import.

Select the cells to import.

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

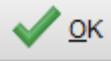
	A	B	C	D
1	NO_SISWA	NAMA	B.IND	B.ING
2	S-101	JOKO	8.54	8.40
3	S-102	AGUS	9.98	6.81
4	S-103	SUSI	6.20	9.15
5	S-104	DYAH	5.24	7.26
6	S-105	WATI	5.70	5.71
7	S-106	IKA	8.57	5.87
8	S-107	EKO	7.70	7.71
9	S-108	YANTO	6.60	5.70
10	S-109	WAWAN	9.00	8.12
11	S-110	MAHMUD	9.81	9.58

← Previous → Next  Cancel

Change role



Please enter the new role:

 OK  Cancel

Import Data - Format your columns.

Format your columns.

Replace errors with missing values ⓘ

	NAMA <i>polynominal id</i>	B.IND <i>real</i>	B.ING <i>real</i>
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	9.000	8.120
10	MAHMUD	9.810	9.580

 no problems.

 Previous  Next  Cancel

Import Data - Where to store the data?

Where to store the data?

- Local Repository (LABSI-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)

Name

Location //Local Repository/Data_NilaiUjian

 Previous  Finish  Cancel

RapidMiner Studio Free 9.3.001 @ LABSI-04-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

Result History ExampleSet (/Local Repository/Data_NilaiUjian)

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

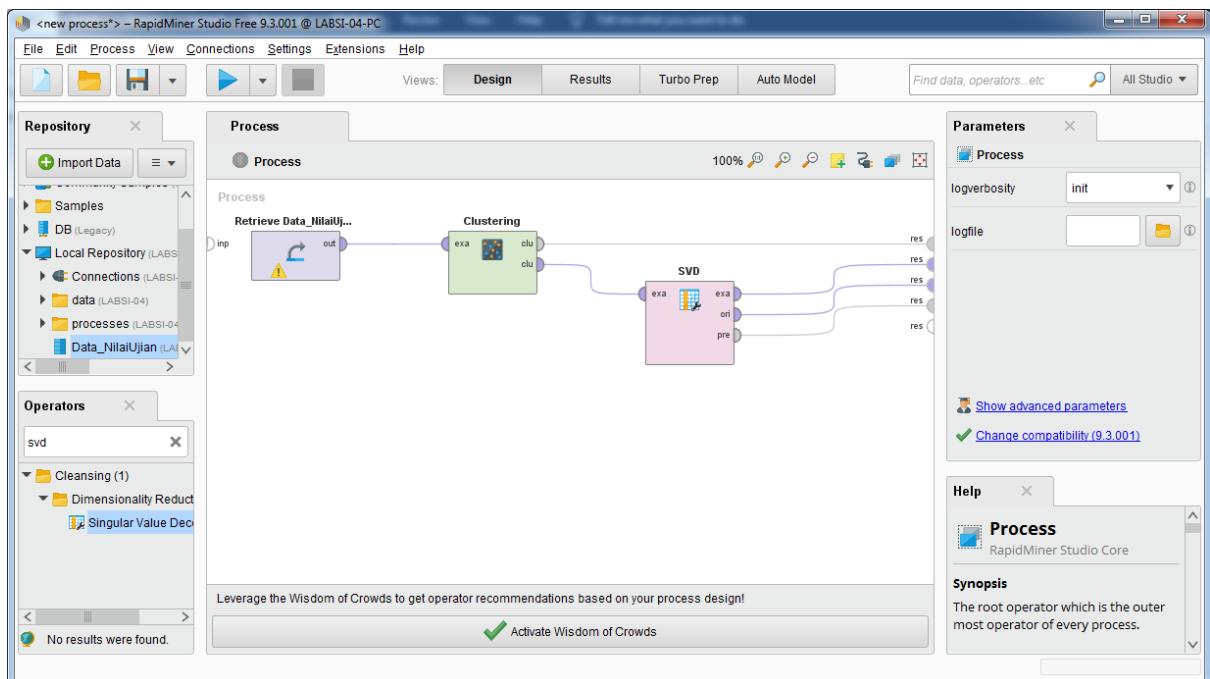
Data Statistics Visualizations Annotations

Row No.	NAMA	B.IND	B.ING
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)

Repository

- Training Resources (connected)
- Community Samples (connected)
- Samples
- DB (Legacy)
- Local Repository (LABSI-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - Data_NilaiUjian (LABSI-04 - v1, 11/)



Screenshot of RapidMiner Studio Free 9.3.001 showing the Results view for an SVD process.

The Results tab is selected in the top navigation bar. The main area displays the Eigenvalues table:

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

The left sidebar shows the following tabs: Eigenvalues (selected), Svd vectors, Cumulative Variance, and Annotations.

The Repository panel on the right shows the Local Repository (LABSI-04) expanded, with Data_NilaiUjian selected.

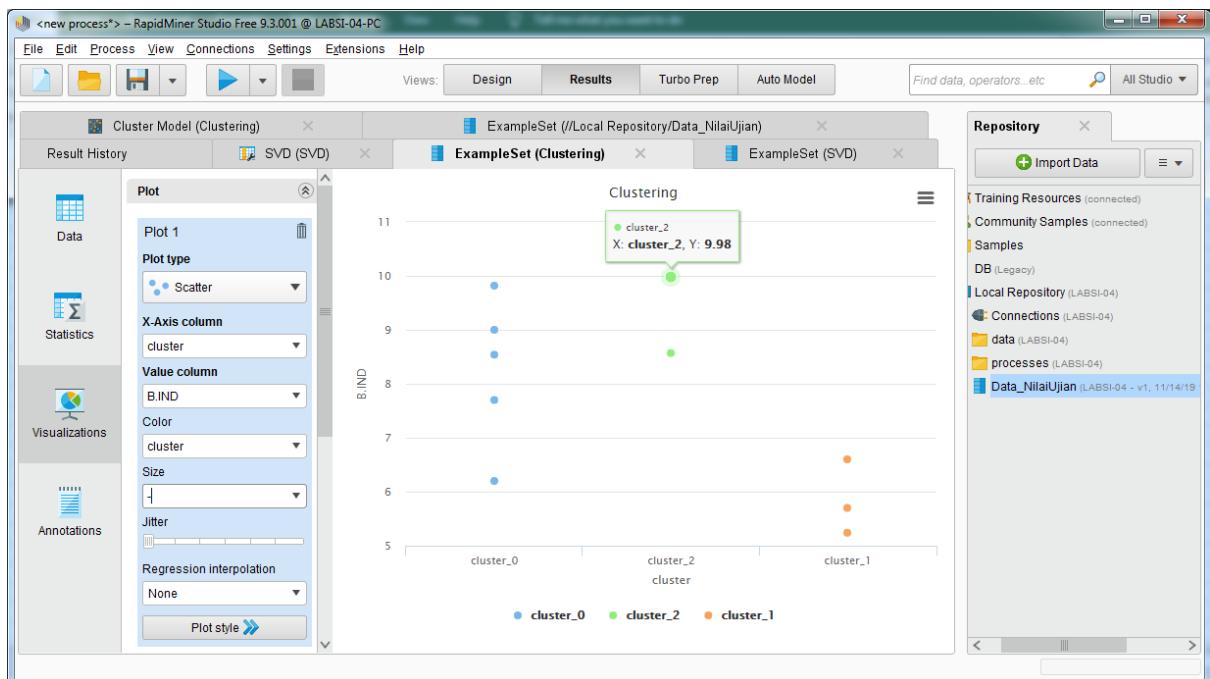
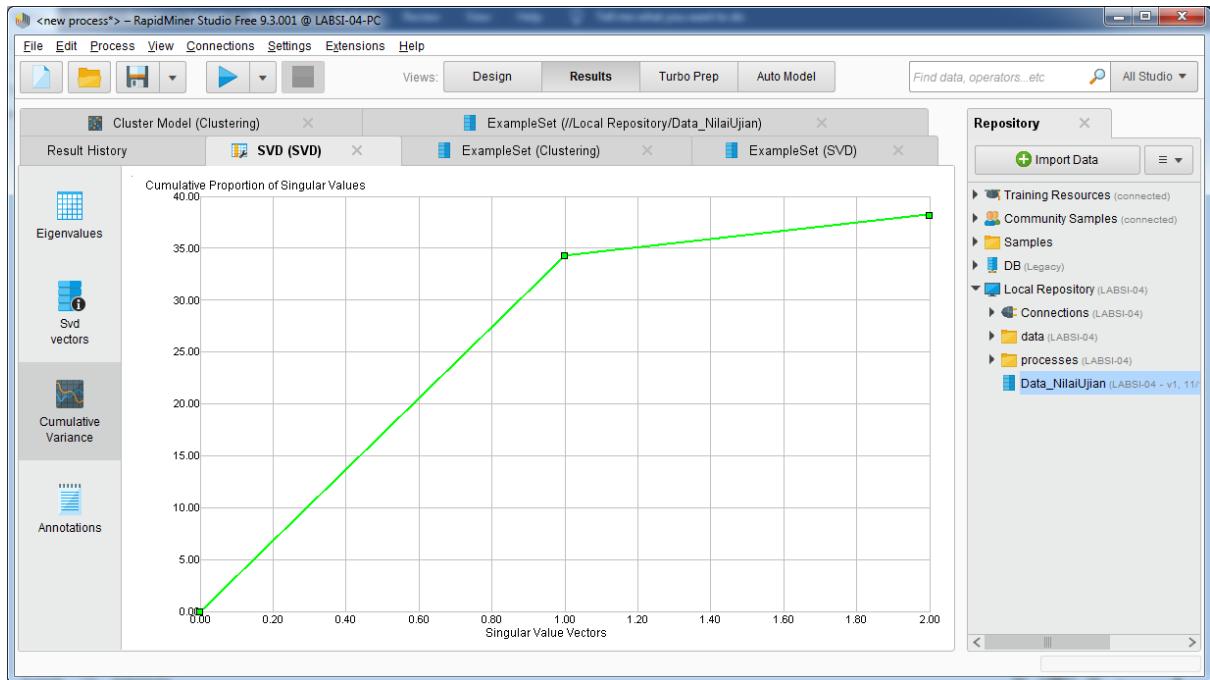
Screenshot of RapidMiner Studio Free 9.3.001 showing the Results view for an SVD process.

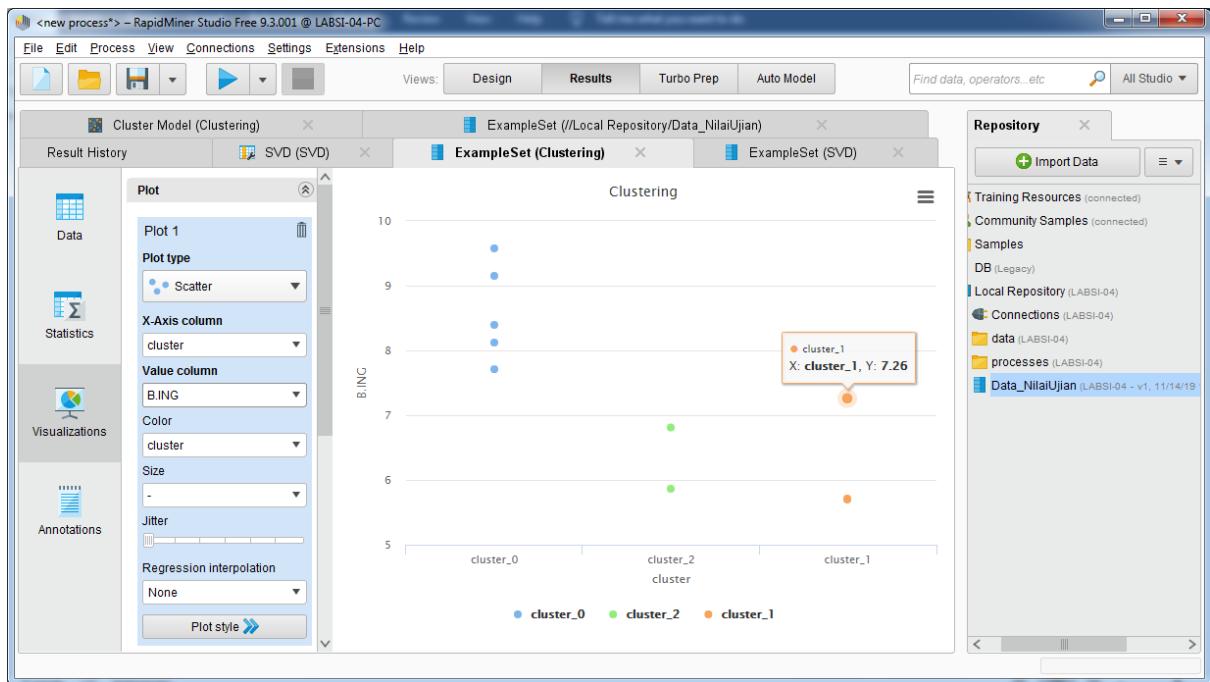
The Results tab is selected in the top navigation bar. The main area displays the SVD Vector 1 table:

Attribute	SVD Vector 1
BIND	0.723
BING	0.690

The left sidebar shows the following tabs: Eigenvalues (selected), Svd vectors, Cumulative Variance, and Annotations.

The Repository panel on the right shows the Local Repository (LABSI-04) expanded, with Data_NilaiUjian selected.

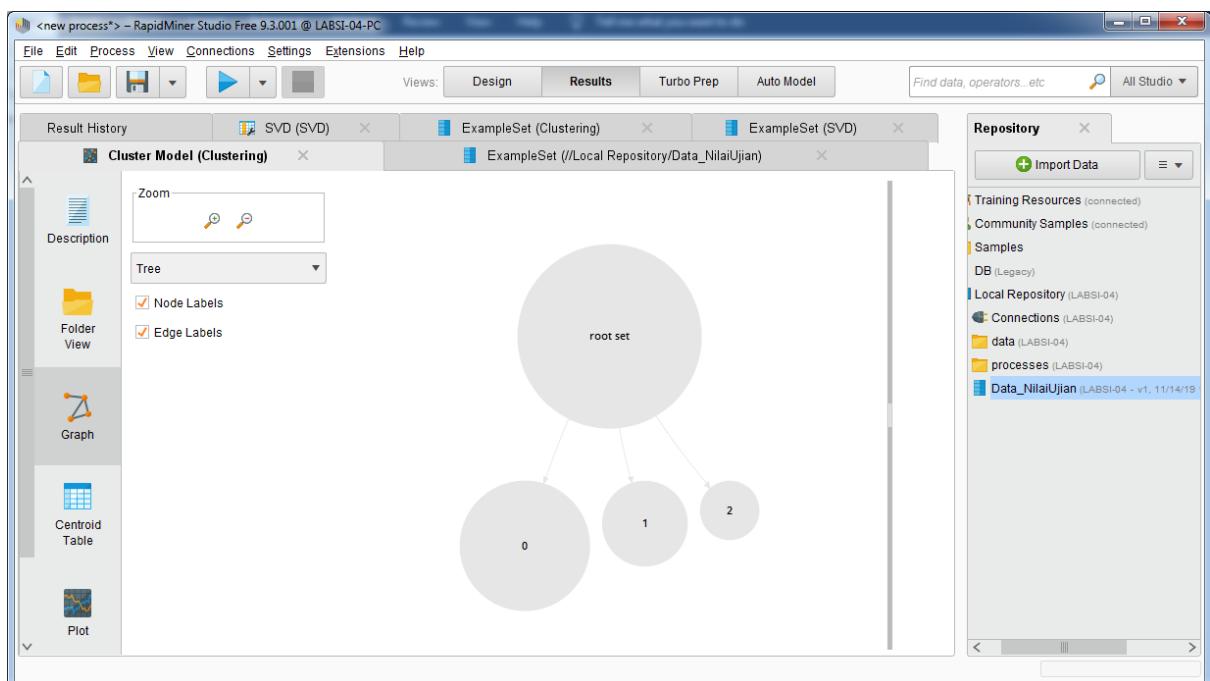
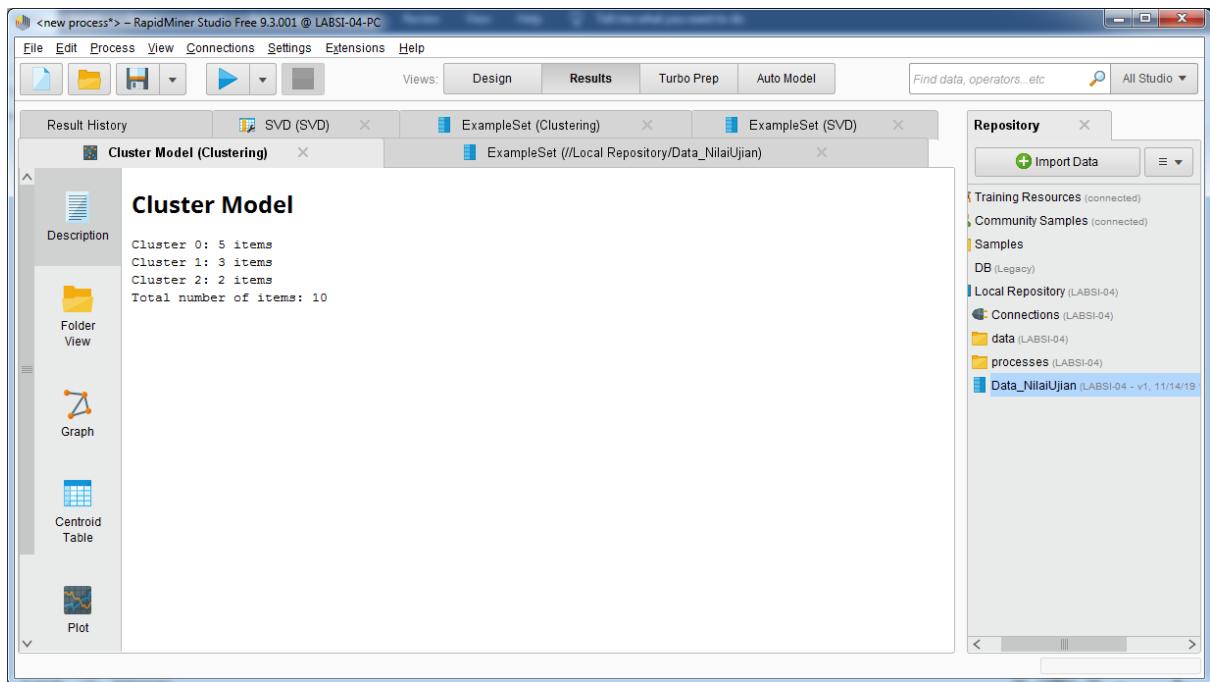


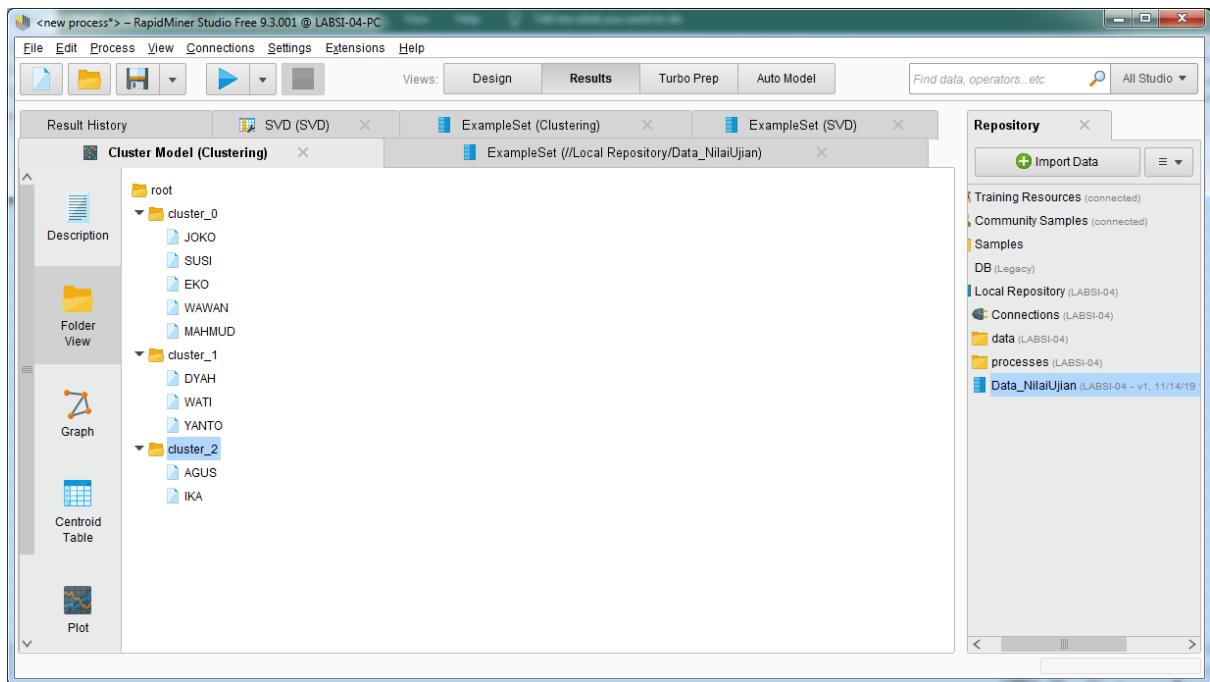


The screenshot shows a table titled "ExampleSet (Clustering)" with columns: Row No., NAMA, cluster, B.JIND, and B.JNG. The data is as follows:

Row No.	NAMA	cluster	B.JIND	B.JNG
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

Below the table, it says "ExampleSet (10 examples, 2 special attributes, 2 regular attributes)".





CLUSTERING	NO_SISWA	NAMA	B.IND	B.ING
0	S-101	JOKO	8.54	8.40
0	S-103	SUSI	6.20	9.15
0	S-107	EKO	7.70	7.71
0	S-109	WAWAN	9.00	8.12
0	S-110	MAHMUD	9.81	9.58
1	S-104	DYAH	5.24	7.26
1	S-105	WATI	5.70	5.71
1	S-108	YANTO	6.60	5.70
2	S-102	AGUS	9.98	6.81
2	S-106	IKKA	8.57	5.87

TUGAS

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.IND	B.ING	MTK	IPA
2	S-101	JOKO	6.691	9.459	6.687	7.481
3	S-102	AGUS	9.407	6.224	9.123	5.688
4	S-103	SUSI	5.525	9.666	5.224	8.187
5	S-104	DYAH	5.682	8.841	5.813	7.004
6	S-105	WATI	8.716	7.769	7.601	5.568
7	S-106	IKA	8.623	6.277	5.121	7.221
8	S-107	EKO	7.846	6.223	6.791	6.713
9	S-108	YANTO	6.957	8.760	6.899	9.500
10	S-109	WAWAN	5.009	9.258	7.705	8.863
11	S-110	MAHMUD	6.431	8.125	9.707	8.256
12	S-111	BUDI	8.062	9.599	6.373	5.341
13	S-112	SANTI	7.771	7.921	8.266	5.032
14	S-113	DIAN	8.585	9.731	6.277	9.502
15	S-114	DANI	8.620	6.151	6.447	8.405

← Previous → Next 

Import Data - Format your columns.

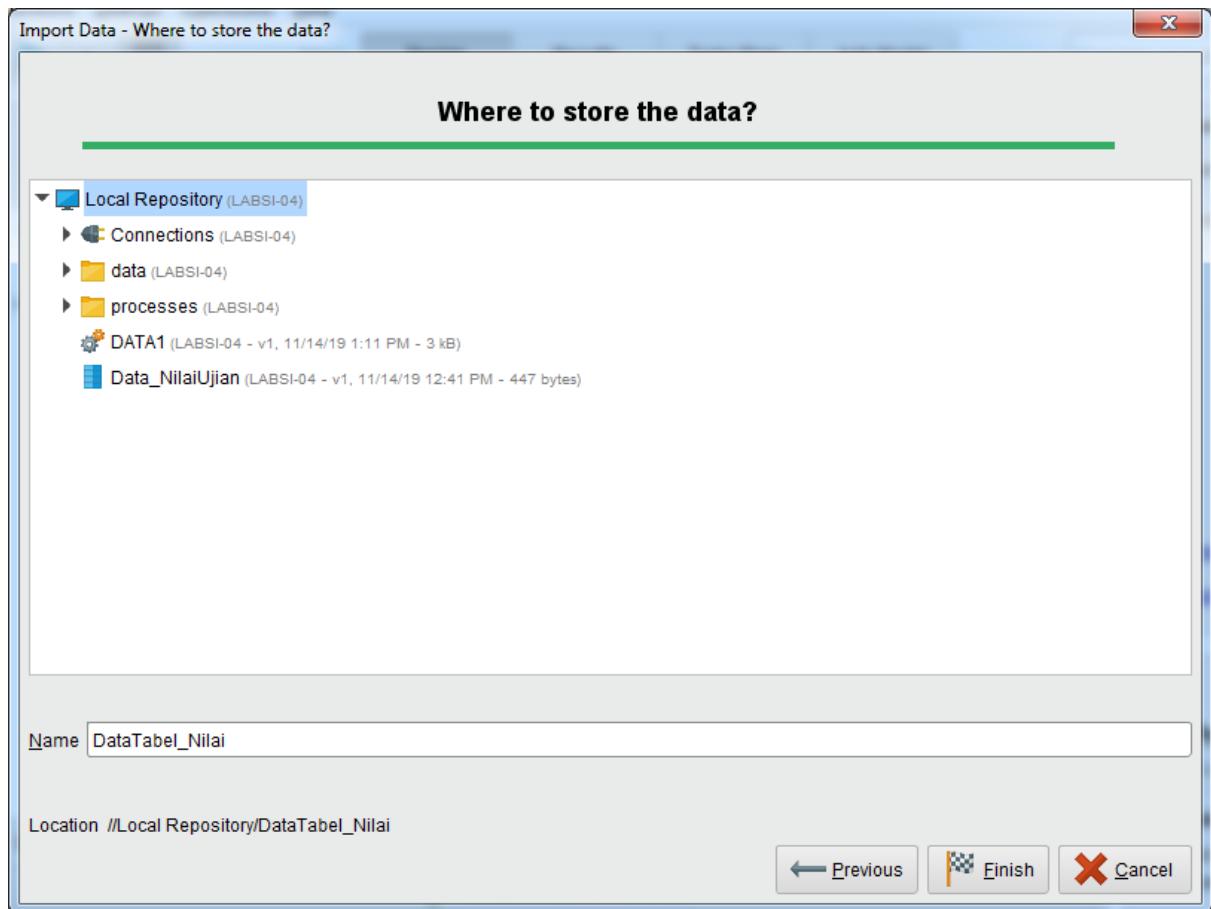
Format your columns.

Replace errors with missing values ⓘ

	NAMA polynomial id	B.IND real	B.ING real	MTK real	IPA real
1	JOKO	6.691	9.459	6.687	7.481
2	AGUS	9.407	6.224	9.123	5.688
3	SUSI	5.525	9.666	5.224	8.187
4	DYAH	5.682	8.841	5.813	7.004
5	WATI	8.716	7.769	7.601	5.568
6	IKA	8.623	6.277	5.121	7.221
7	EKO	7.846	6.223	6.791	6.713
8	YANTO	6.957	8.760	6.899	9.500
9	WAWAN	5.009	9.258	7.705	8.863
10	MAHMUD	6.431	8.125	9.707	8.256
11	BUDI	8.062	9.599	6.373	5.341
12	SANTI	7.771	7.921	8.266	5.032
13	DIAN	8.585	9.731	6.277	9.502

 no problems.

← Previous → Next 



<new process> – RapidMiner Studio Free 9.3.001 @ LABSI-04-PC

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) ExampleSet (SVD) SVD (SVD)

Result History ExampleSet (/Local Repository/DataTable_Nilai)

Data Statistics Visualizations Annotations

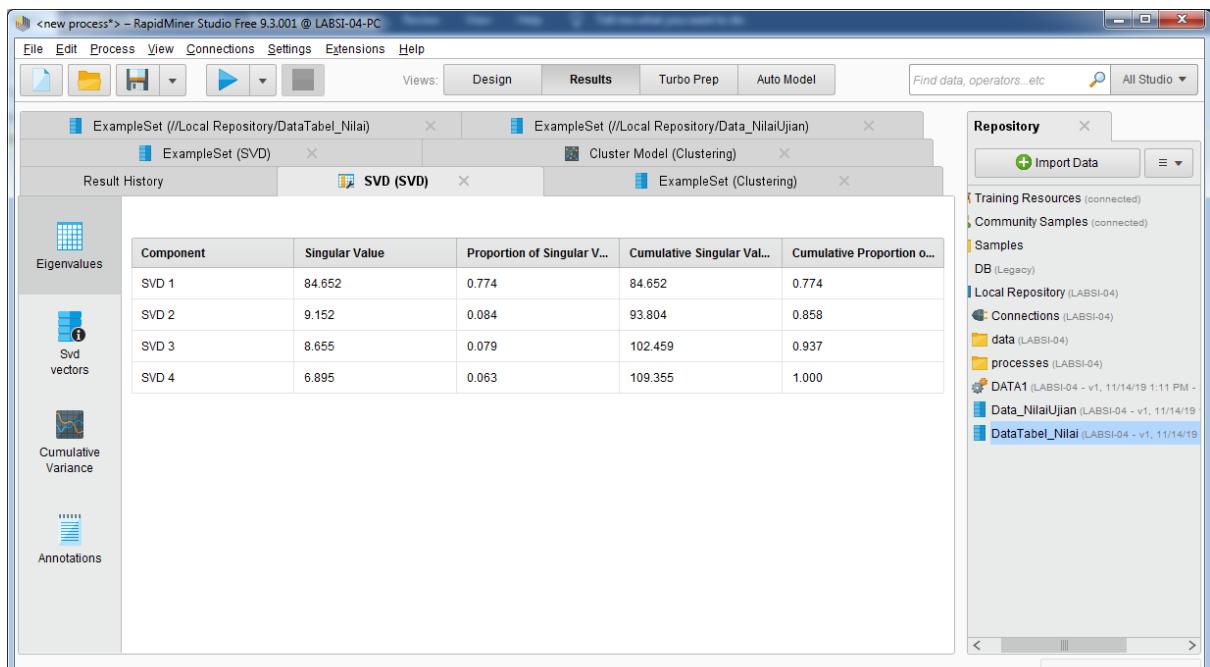
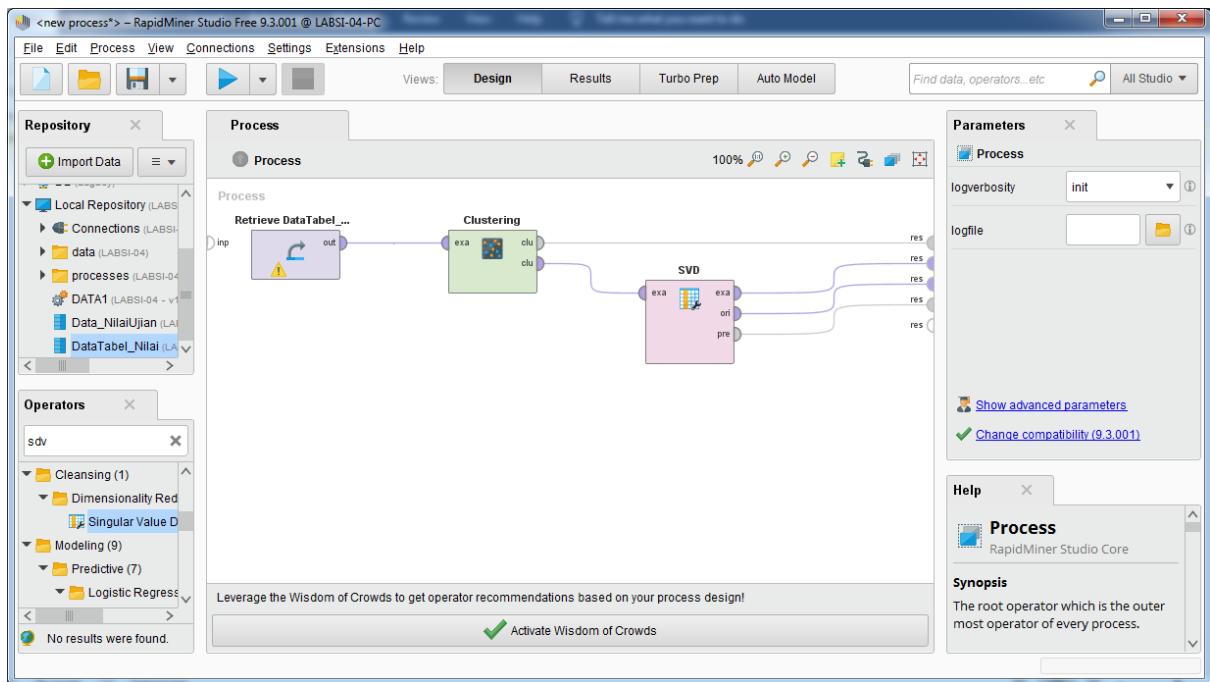
Open in Turbo Prep Auto Model Filter (30 / 30 examples): all

Row No.	NAMA	B.IND	B.ING	MTK	IPA
1	JOKO	6.691	9.459	6.687	7.481
2	AGUS	9.407	6.224	9.123	5.688
3	SUSI	5.525	9.666	5.224	8.187
4	DYAH	5.682	8.841	5.813	7.004
5	WATI	8.716	7.769	7.601	5.568
6	IKA	8.623	6.277	5.121	7.221
7	EKO	7.846	6.223	6.791	6.713
8	YANTO	6.957	8.760	6.899	9.500
9	WAWAN	5.009	9.258	7.705	8.863
10	MAHMUD	6.431	8.125	9.707	8.256
11	BUDI	8.062	9.599	6.373	5.341

ExampleSet (30 examples, 1 special attribute, 4 regular attributes)

Repository

- Training Resources (connected)
- Community Samples (connected)
- Samples
- DB (Legacy)
- Local Repository (LABSI-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - DATA1 (LABSI-04 - v1, 11/14/19 1:11 PM - 3 kB)
 - Data_NilaiUjian (LABSI-04 - v1, 11/14/19 12:41 PM - 447 bytes)
 - DataTable_Nilai (LABSI-04 - v1, 11/14/19 1:11 PM - 3 kB)



RapidMiner Studio Free 9.3.001 @ LABSI-04-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

ExampleSet (//Local Repository/DataTabel_Nilai) ExampleSet (//Local Repository/Data_NilaiUjian)

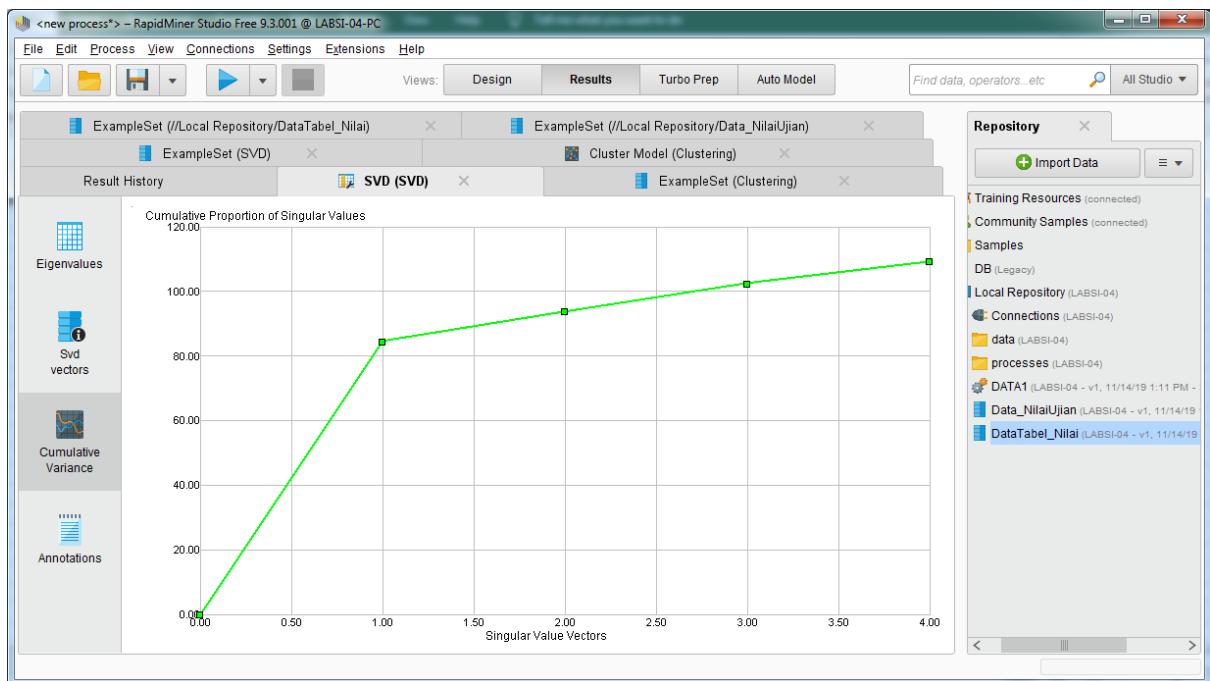
ExampleSet (SVD) Cluster Model (Clustering)

Result History SVD (SVD) ExampleSet (Clustering)

Attribute	SVD Vector 1	SVD Vector 2	SVD Vector 3
BIND	0.496	-0.850	0.078
BING	0.528	0.459	0.314
MTK	0.459	0.173	-0.868
IPA	0.515	0.194	0.377

Eigenvalues Svd vectors Cumulative Variance Annotations

Repository Import Data Training Resources (connected) Community Samples (connected) Samples DB (Legacy) Local Repository (LABSI-04) Connections (LABSI-04) data (LABSI-04) processes (LABSI-04) DATA1 (LABSI-04 - v1, 11/14/19 1:11 PM -) Data_NilaiUjian (LABSI-04 - v1, 11/14/19 1:11 PM -) DataTabel_Nilai (LABSI-04 - v1, 11/14/19 1:11 PM -)



RapidMiner Studio Free 9.3.001 @ LABSI-04-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

ExampleSet (/Local Repository/DataTabel_Nilai) ExampleSet (/Local Repository/Data_NilaiUjian)

ExampleSet (SVD) Cluster Model (Clustering)

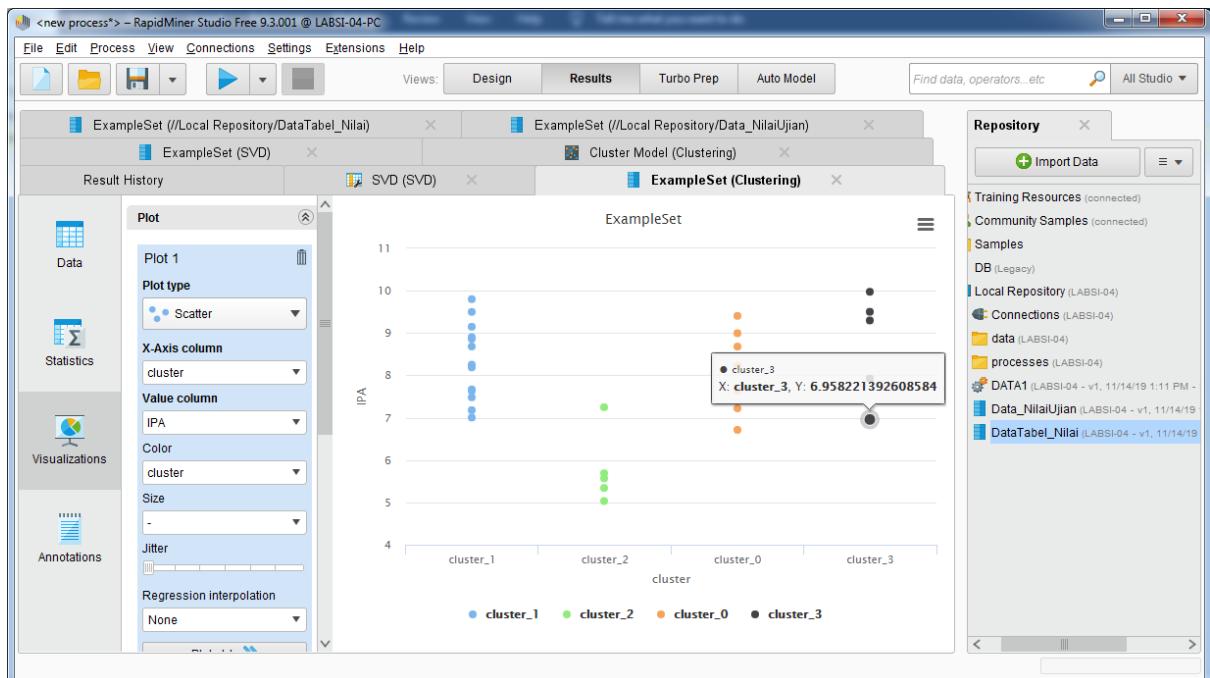
Result History SVD (SVD) ExampleSet (Clustering)

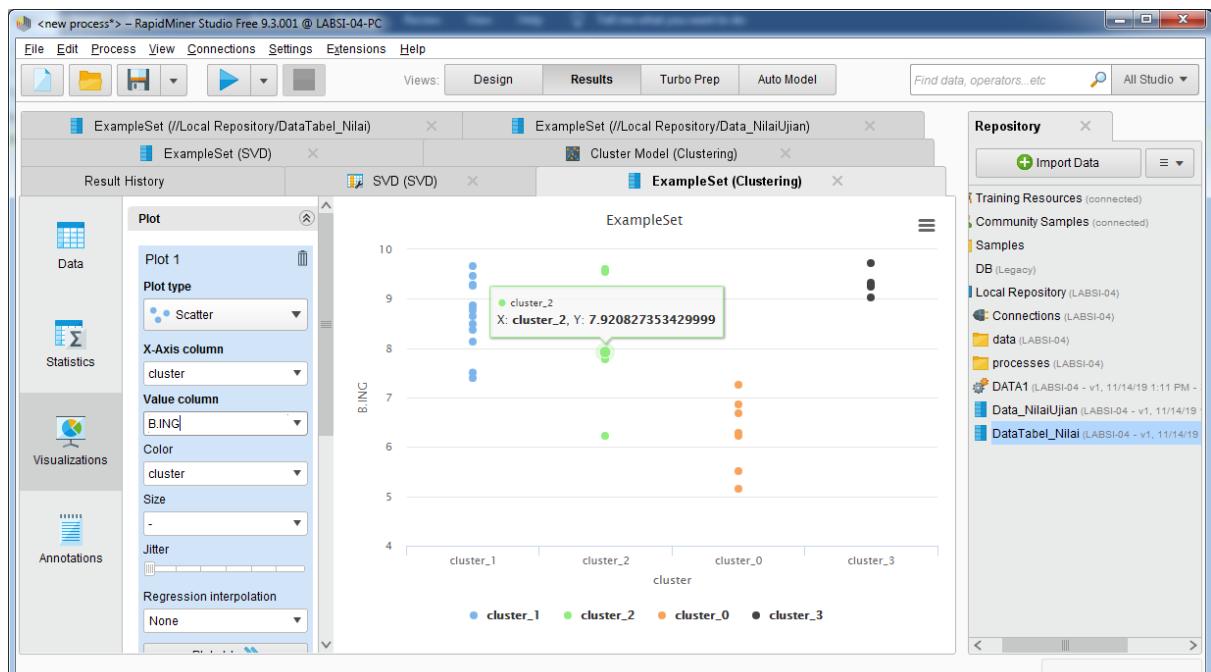
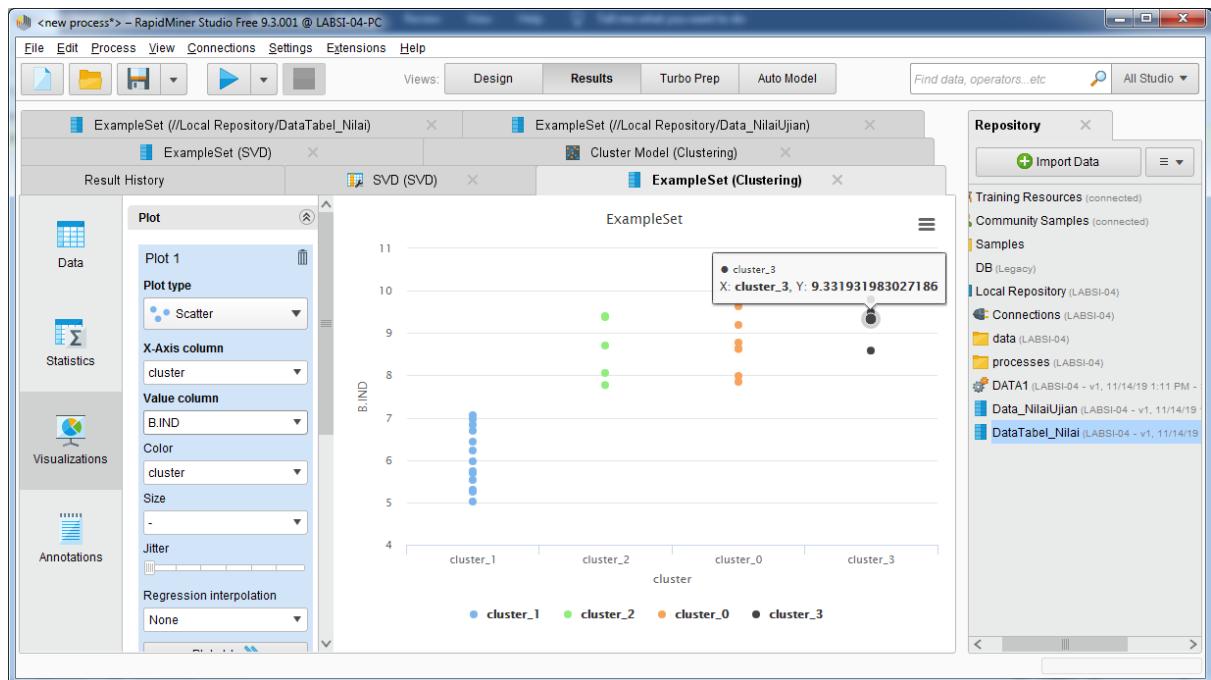
Data Statistics Visualizations Annotations

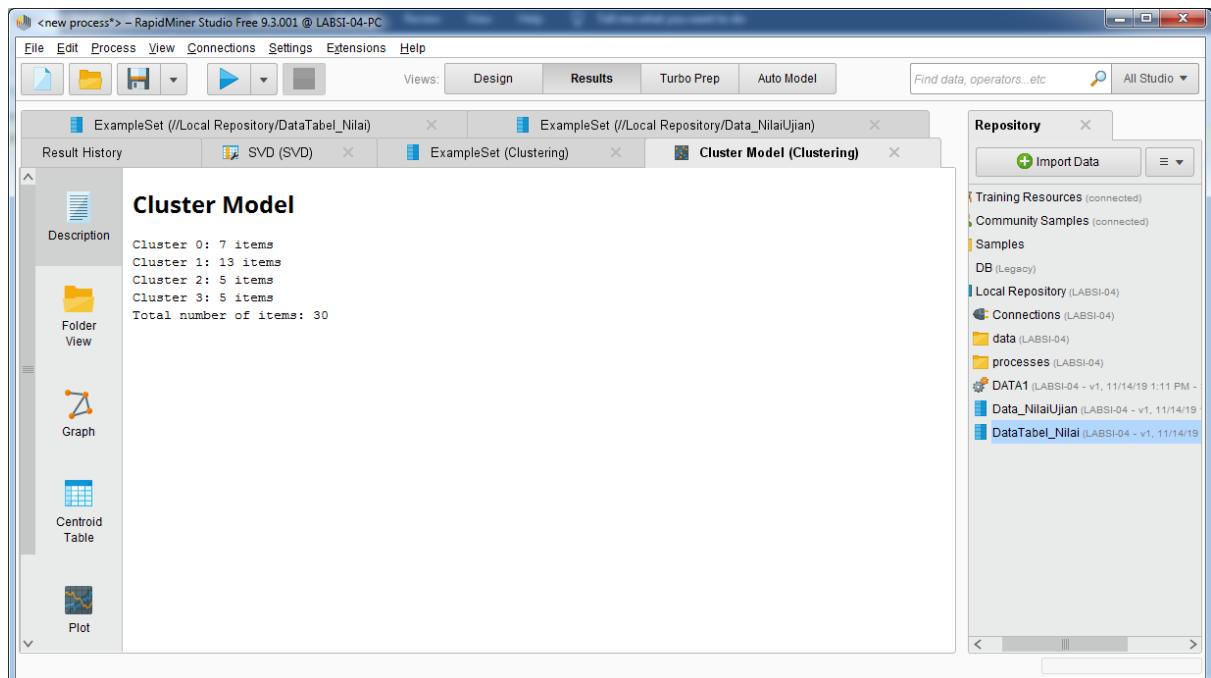
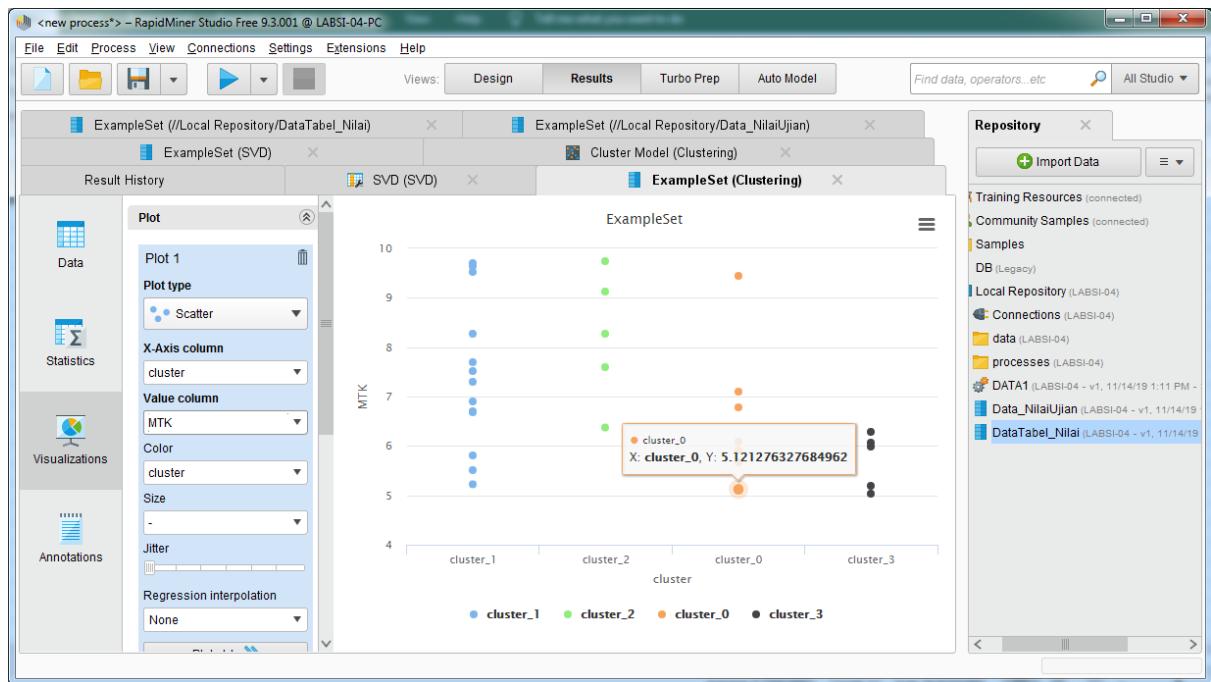
Open in Turbo Prep Auto Model Filter (30 / 30 examples): all

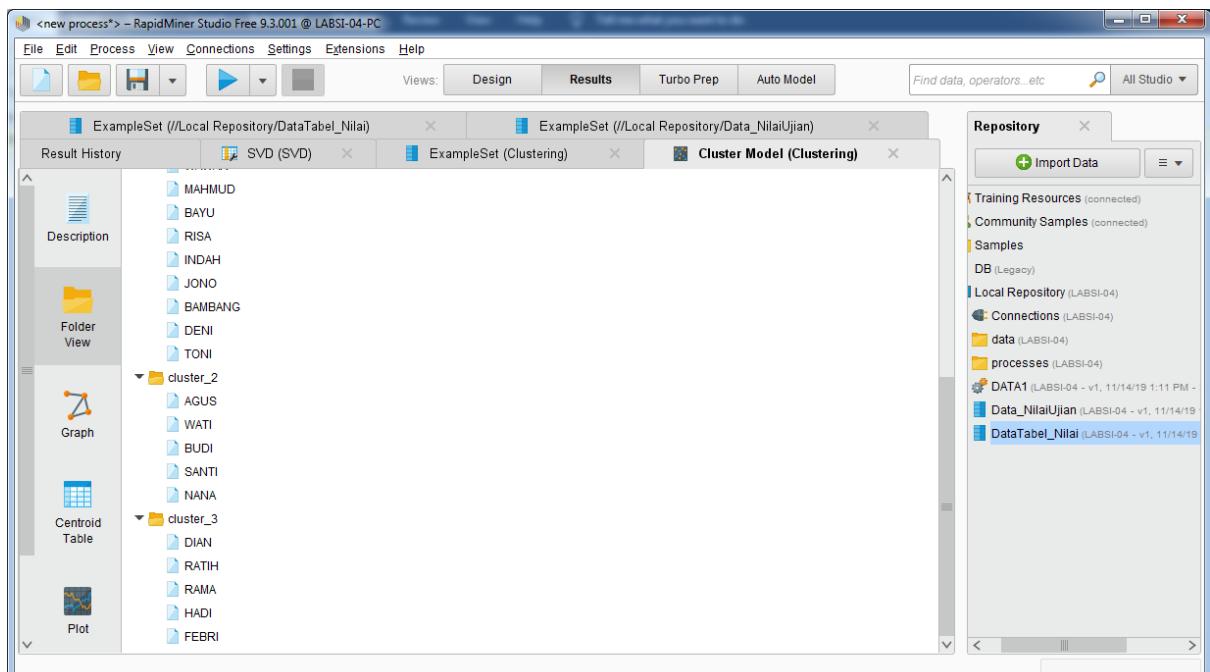
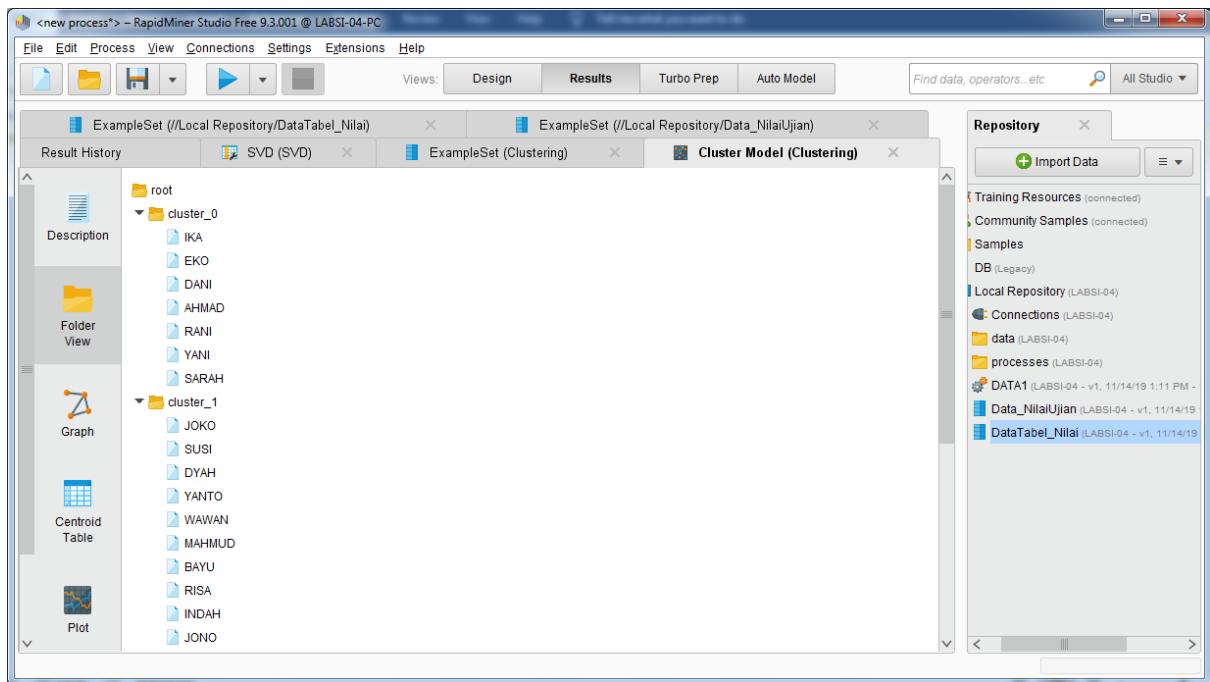
Row No.	NAMA	cluster	BJND	BING	MTK	IPA
1	JOKO	cluster_1	6.691	9.459	6.687	7.481
2	AGUS	cluster_2	9.407	6.224	9.123	5.688
3	SUSI	cluster_1	5.525	9.666	5.224	8.187
4	DYAH	cluster_1	5.682	8.841	5.813	7.004
5	WATI	cluster_2	8.716	7.769	7.601	5.568
6	IKA	cluster_0	8.623	6.277	5.121	7.221
7	EKO	cluster_0	7.846	6.223	6.791	6.713
8	YANTO	cluster_1	6.957	8.760	6.899	9.500
9	WAWAN	cluster_1	5.009	9.258	7.705	8.863
10	MAHMUD	cluster_1	6.431	8.125	9.707	8.256
11	BUDI	cluster_2	8.062	9.599	6.373	5.341

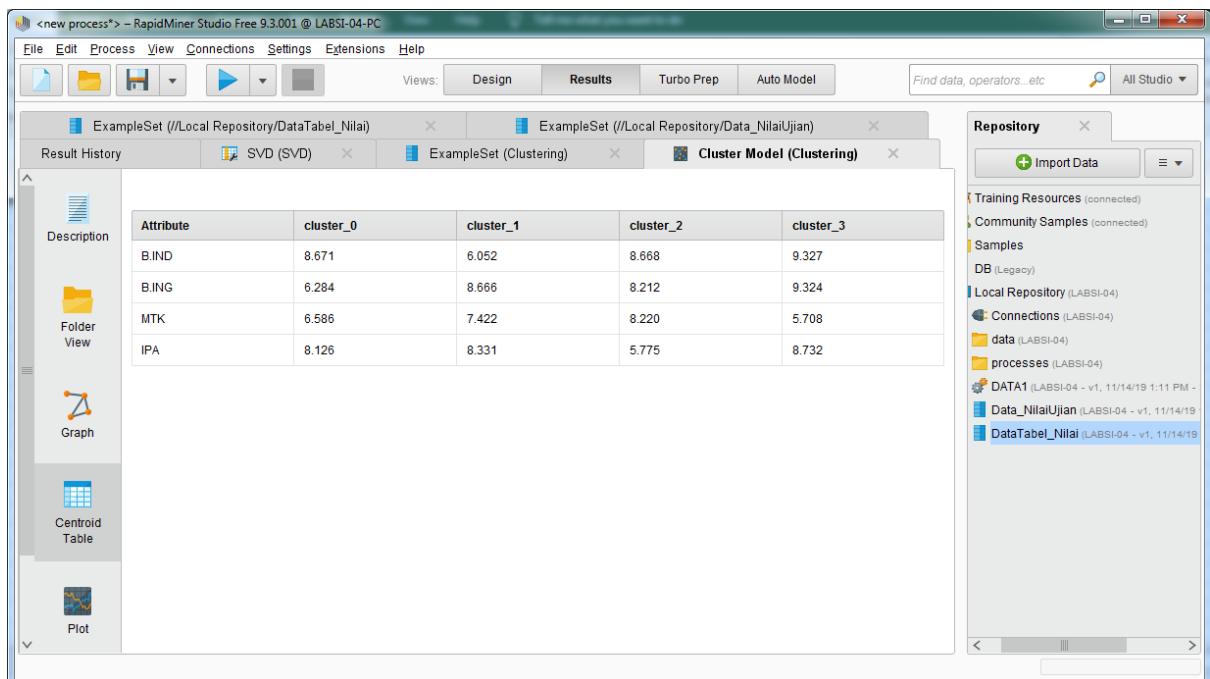
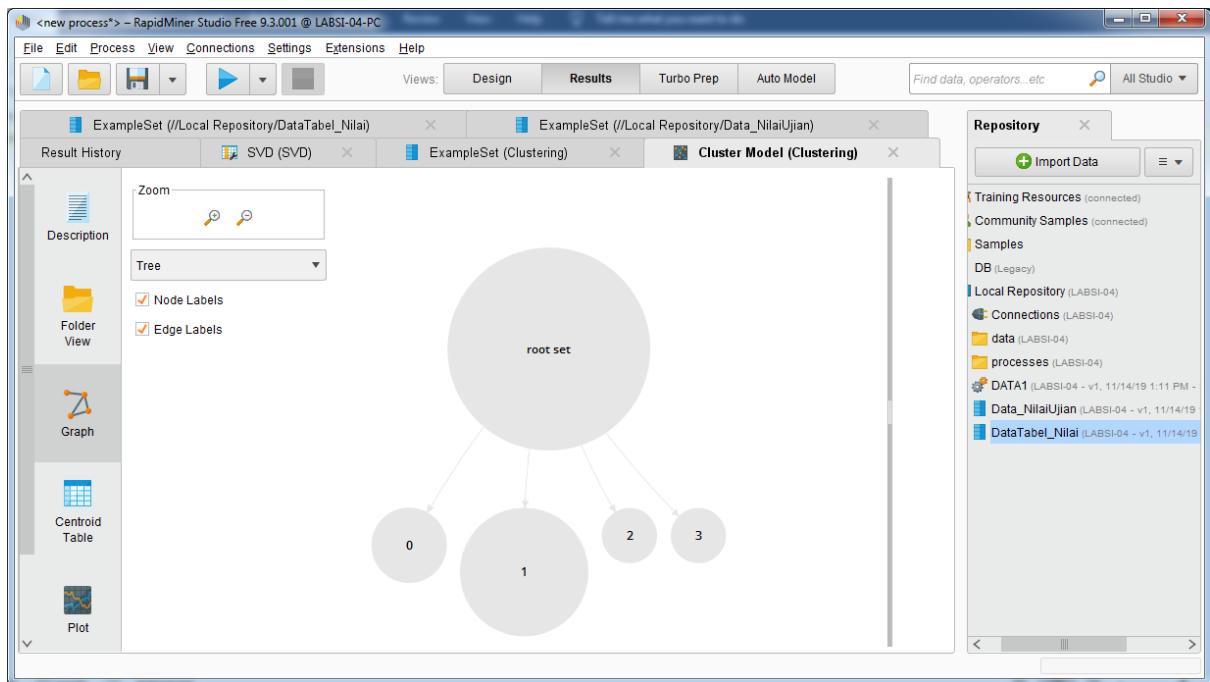
ExampleSet (30 examples, 2 special attributes, 4 regular attributes)











NO_SISWA	NAMA	B.IND	B.ING	MTK	IPA	Claster
S-106	IKA	8,45	7,54	8,34	7,30	0
S-107	EKO	7,79	7,17	9,08	8,15	0
S-114	DANI	9,29	5,37	7,02	6,93	0
S-115	AHMAD	8,83	8,47	6,88	5,55	0
S-118	RANI	6,92	8,72	9,02	7,49	0
S-119	YANI	9,87	5,16	8,14	7,77	0
S-123	SARAH	8,55	9,17	8,96	8,09	0
S-101	JOKO	8,50	8,06	9,64	8,72	1
	SUSI	5,78	6,84	6,41	9,60	1

S-103						
S-104	DYAH	8,48	6,92	5,89	5,90	1
S-108	YANTO	7,52	5,55	7,44	9,71	1
S-109	1	9,38	8,22	8,65	7,89	1
S-110	MAHMUD	5,91	6,42	7,31	9,26	1
S-116	BAYU	5,19	6,39	9,33	7,55	1
S-117	RISA	5,98	9,20	5,76	6,35	1
S-122	JONO	7,84	7,30	7,00	5,40	1
S-125	BAMBANG	5,67	5,89	5,23	5,92	1
S-129	DENI	8,48	5,88	5,71	9,89	1
S-130	TONI	5,17	6,08	9,68	7,85	1
						2
S-102	AGUS	5,70	7,09	5,53	8,62	
S-105	WATI	6,36	6,47	7,23	8,70	2
S-111	BUDI	5,30	6,07	7,52	6,59	2
S-112	SANTI	8,18	5,97	9,53	7,21	2
S-121	INDAH	6,82	5,23	5,04	5,61	2
S-127	NANA	5,75	6,19	6,35	8,09	2
S-113	DIAN	8,39	7,33	8,90	5,53	3
S-120	RATIH	7,99	8,39	7,65	7,06	3
S-124	RAMA	8,33	9,34	9,13	9,86	3
S-126	HADI	8,31	8,50	9,50	8,15	3
S-128	FEBRI	7,04	5,52	8,61	5,70	3

Nama : Tika Pratiwi

NIM : L200170046

Kelas : C

LATIHAN

Import Data - Format your columns.

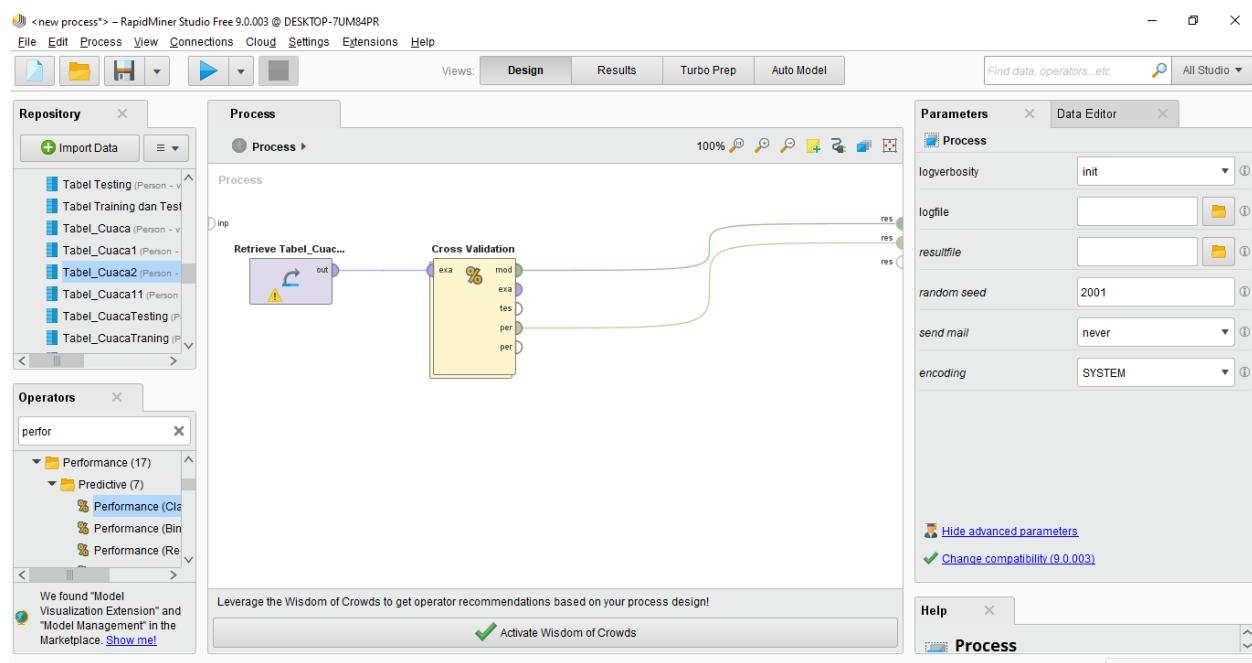
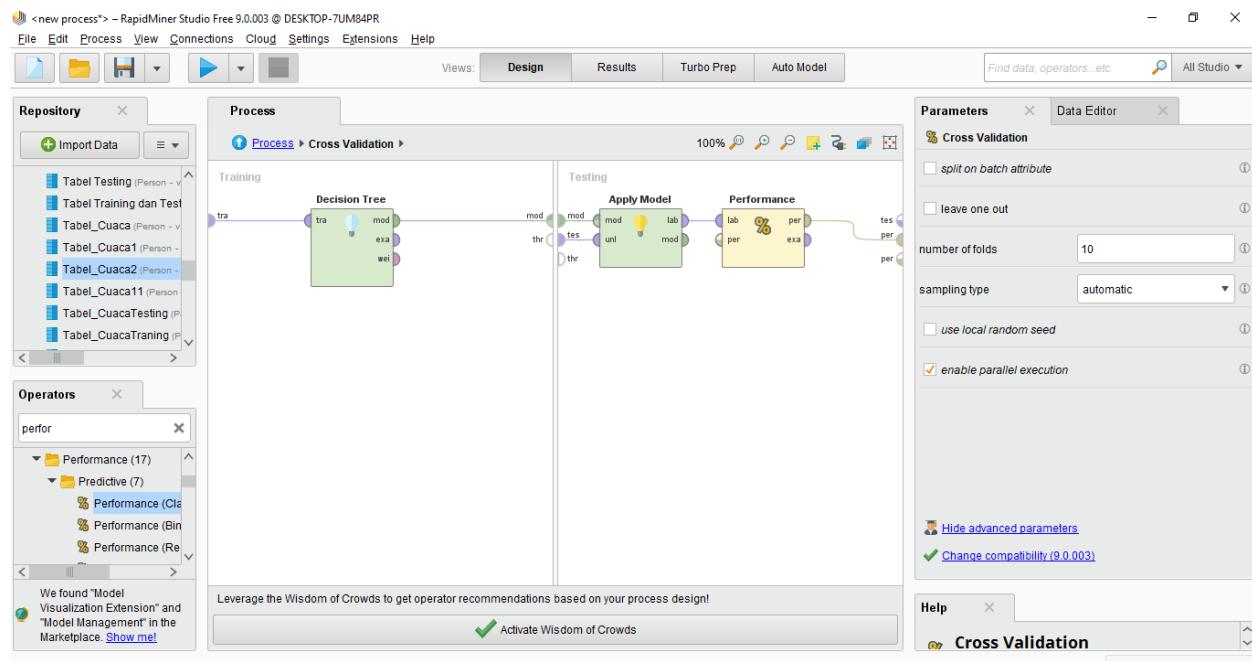
Format your columns.

Date format: MMM d, yyyy h:mm:ss a z ▾ Replace errors with missing values ⓘ

	Cuaca polynominal	Suhu integer	Kelembaban_... integer	Berangin polynominal	Bermain_Tenis binominal label
1	Cerah	85	85	TIDAK	TIDAK
2	Cerah	80	90	YA	TIDAK
3	Mendung	83	86	TIDAK	YA
4	Hujan	70	96	TIDAK	TIDAK
5	Hujan	68	80	TIDAK	YA
6	Hujan	65	70	YA	TIDAK
7	Mendung	64	65	YA	YA
8	Cerah	72	95	TIDAK	TIDAK
9	Cerah	69	70	TIDAK	YA
10	Hujan	75	80	TIDAK	YA
11	Cerah	75	70	YA	YA
12	Mendung	72	90	YA	YA
13	Mendung	84	75	TIDAK	YA

✓ no problems.

← Previous → Next ✖ Cancel



The screenshot shows the RapidMiner Studio Free interface with three tabs open: 'ExampleSet (/Local Repository/Table_Cuaca2)', 'ExampleSet (/Local Repository/Table_Cuaca1)', and 'Tree (Decision Tree)'. The central window displays a 'PerformanceVector (Performance)' analysis. On the left, a sidebar shows 'Result History' with 'Criterion accuracy' selected. The main area shows a table view of performance metrics:

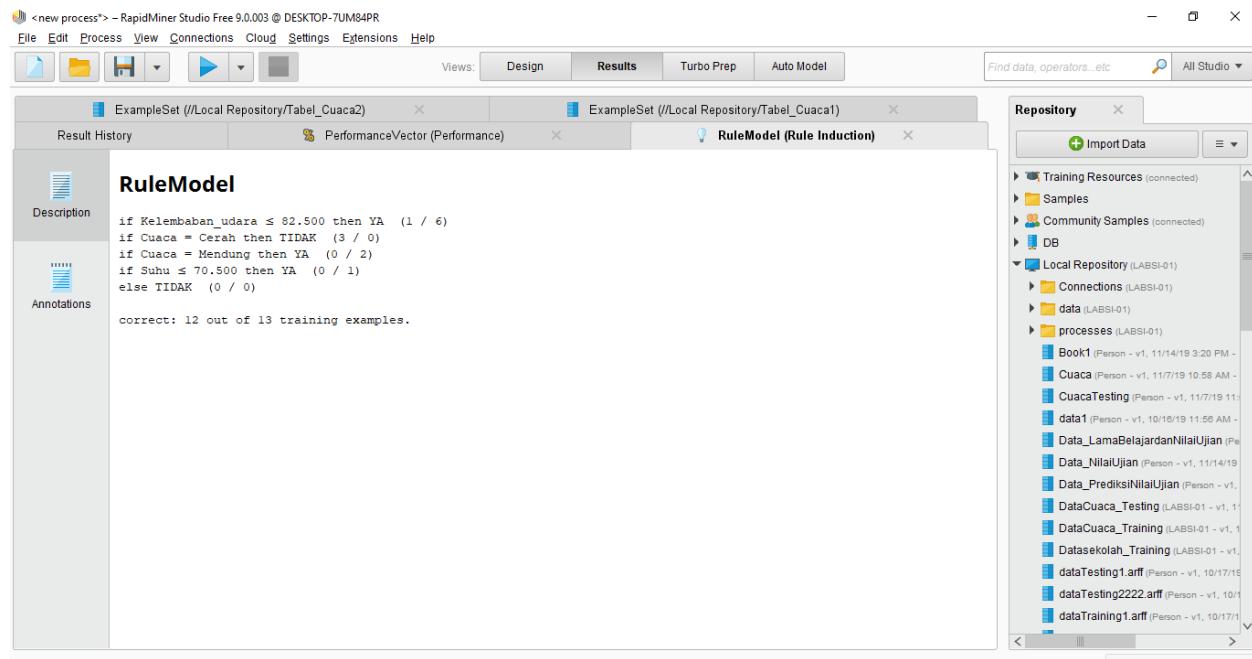
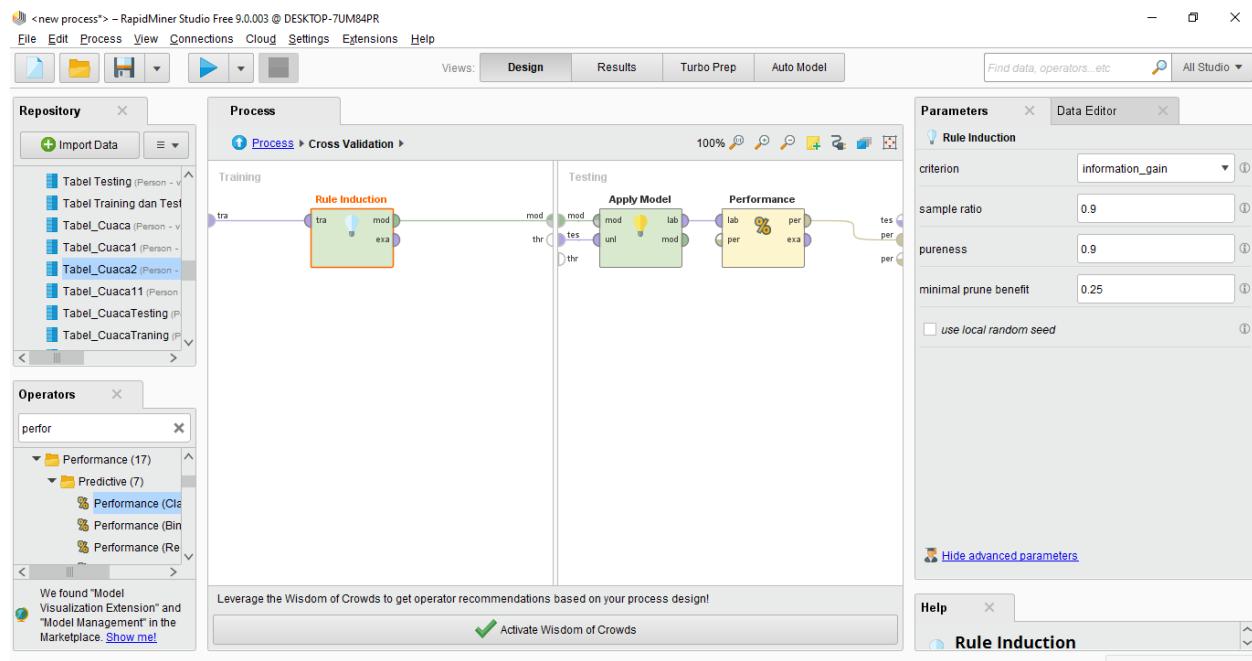
	true TIDAK	true YA	class precision
pred. TIDAK	2	2	50.00%
pred. YA	3	7	70.00%
class recall	40.00%	77.78%	

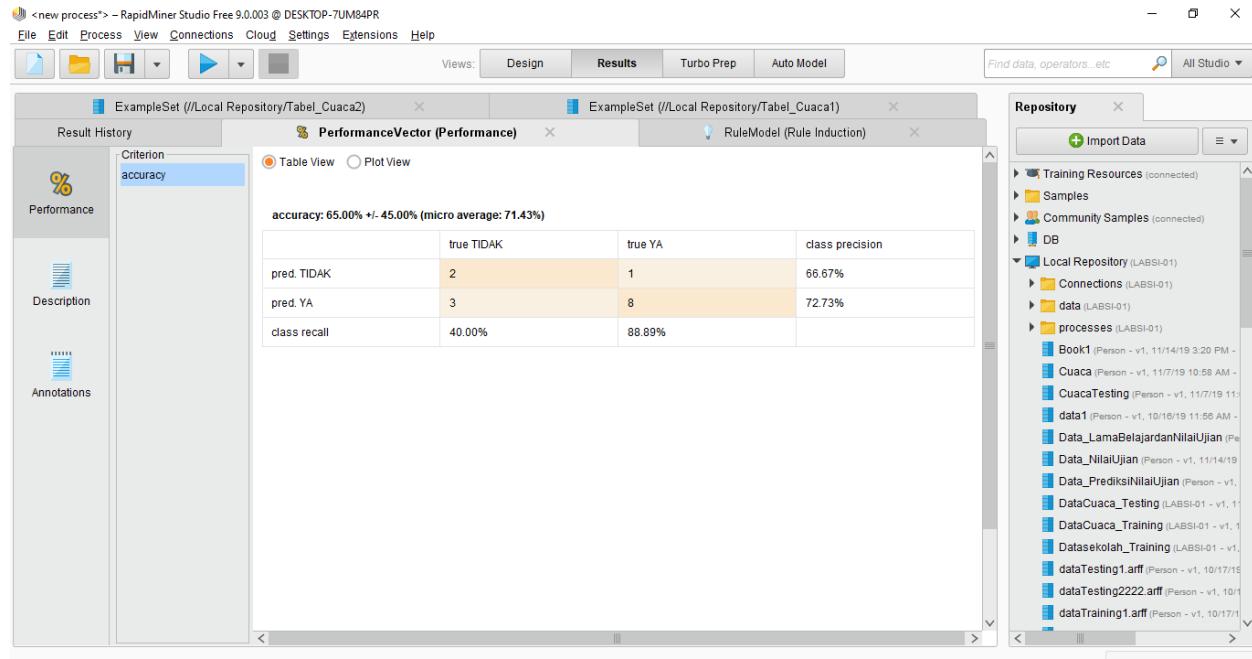
Annotations are visible on the far left.

The right side features a 'Repository' panel with a tree view of local resources, including 'Training Resources', 'Samples', 'Community Samples', 'DB', and a detailed view of the 'Local Repository (LABSI-01)' containing 'Connections', 'data', and 'processes'.

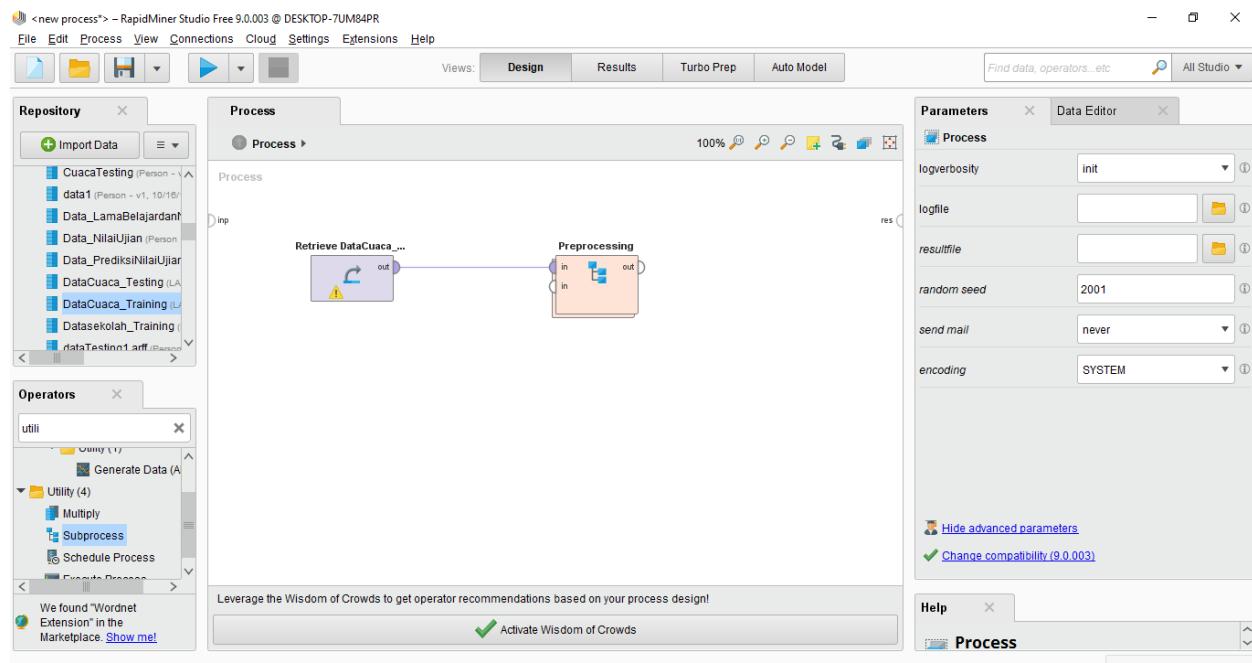
The screenshot shows the RapidMiner Studio interface with the following details:

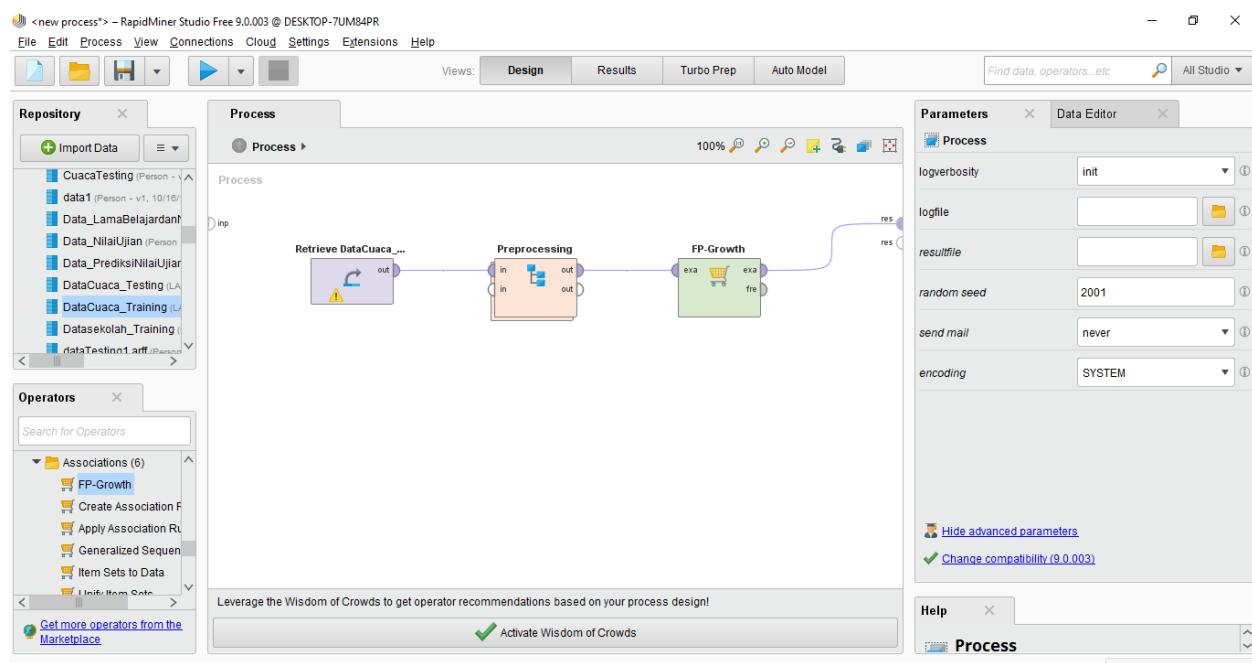
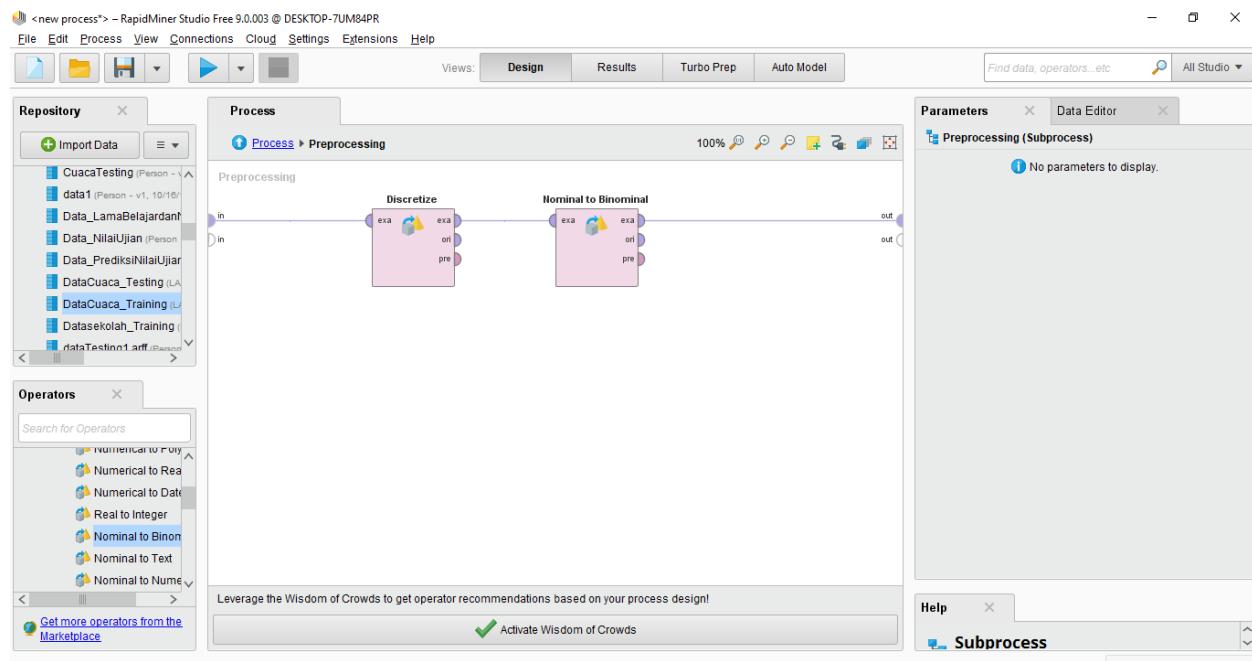
- Title Bar:** <new process*> - RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR
- Menu Bar:** File, Edit, Process, View, Connections, Cloud, Settings, Extensions, Help
- Toolbar:** Views: Design, Results, Turbo Prep, Auto Model
- Left Sidebar:**
 - Graph:** Contains a tree diagram under "Zoom".
 - Root node: Cuaca (Weather)
 - Left child: Cerah (Sunny) leads to Kelembaban_udara (Humidity).
 - Left child: TIDAK (No) leads to a blue box labeled TIDAK.
 - Right child: YA (Yes) leads to a red box labeled YA.
 - Middle child: Hujan (Rainy) leads to Berangin (Windy).
 - Left child: TIDAK (No) leads to a red box labeled YA.
 - Right child: YA (Yes) leads to a blue box labeled TIDAK.
 - Right child: Mendung (Cloudy) leads to a red box labeled YA.
 - Description:** Contains checkboxes for Node Labels and Edge Labels, both of which are checked.
 - Annotations:** Contains a small icon of vertical bars.- Central Area:** Displays three windows:
 - ExampleSet (/Local Repository/Table_Cuaca2)
 - PerformanceVector (Performance)
 - Tree (Decision Tree)
- Right Sidebar:** Repository
 - Import Data
 - Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB
 - Local Repository (LABSI-01)
 - Connections (LABSI-01)
 - data (LABSI-01)
 - processes (LABSI-01)
 - Book1 (Person - v1, 11/14/19 3:20 PM -)
 - Cuaca (Person - v1, 11/7/19 10:58 AM -)
 - CuacaTesting (Person - v1, 11/7/19 11:11 AM -)
 - data1 (Person - v1, 10/16/19 11:56 AM -)
 - Data_LamaBelajaranNilaiUjian (Person - v1, 11/14/19 3:20 PM -)
 - Data_NilaiUjian (Person - v1, 11/14/19 3:20 PM -)
 - Data_PrediksiNilaiUjian (Person - v1, 11/14/19 3:20 PM -)
 - DataCuaca_Testing (LABSI-01 - v1, 11/7/19 10:58 AM -)
 - DataCuaca_Training (LABSI-01 - v1, 11/7/19 10:58 AM -)
 - Datasekolah_Training (LABSI-01 - v1, 10/17/15 11:56 AM -)
 - dataTesting1.aff (Person - v1, 10/17/15 11:56 AM -)
 - dataTesting222.aff (Person - v1, 10/17/15 11:56 AM -)
 - dataTraining1.aff (Person - v1, 10/17/15 11:56 AM -)

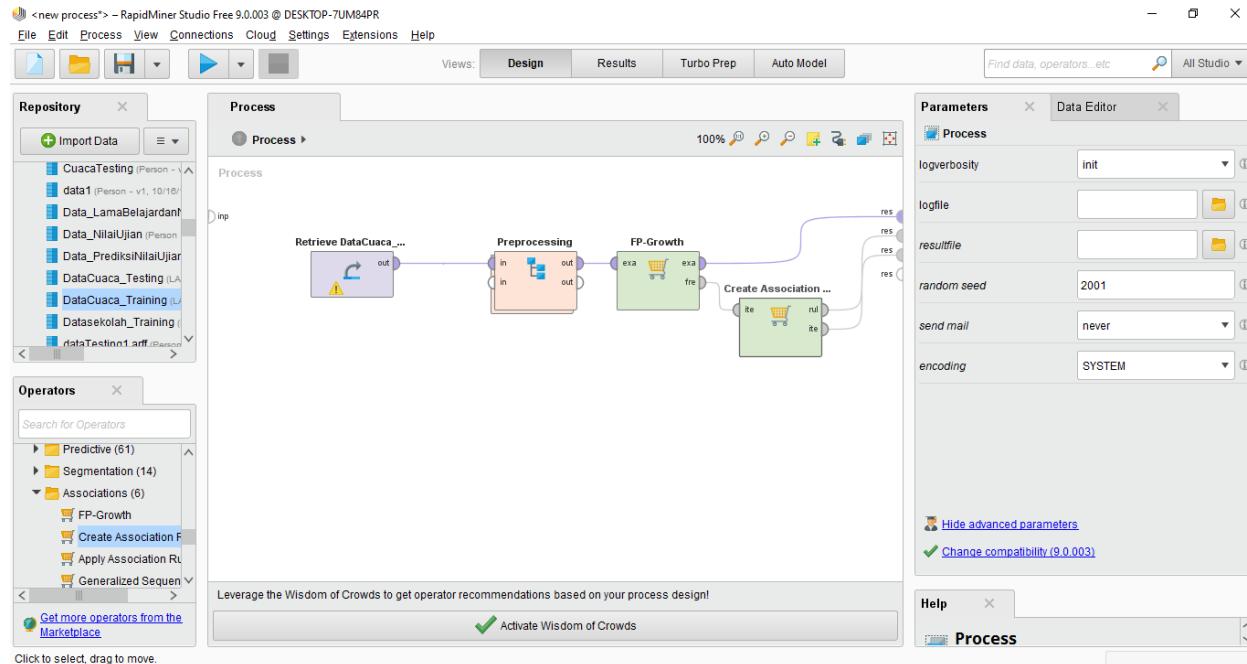




11.4.2.







The screenshot shows the RapidMiner Studio Free interface with the following details:

- Title Bar:** <new process> - RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR
- Menu Bar:** File, Edit, Process, View, Connections, Cloud, Settings, Extensions, Help
- Toolbar:** Includes icons for New, Open, Save, Import, Export, Run, Stop, and Help.
- Views:** Design, Results, Turbo Prep, Auto Model
- Search Bar:** Find data, operators...etc. and All Studio
- Result History:** Shows the "AssociationRules (Create Association Rules)" operator and its configuration:
 - No. of Sets: 26
 - Total Max. Size: 4
 - Min. Size: 1
 - Max. Size: 4
 - Contains Item:
- Table View:** Displays the generated frequent item sets (FP-Growth) with columns: Size, Support, Item 1, Item 2, Item 3, and Item 4. The data includes:

Size	Support	Item 1	Item 2	Item 3	Item 4
1	0.500	Kelembaban_udara			
1	0.429	Berangin			
1	0.429	Suhu			
1	0.357	Cuaca = Cerah			
1	0.357	Cuaca = Hujan			
1	0.286	Cuaca = Mendung			
2	0.214	Kelembaban_udara	Berangin		
2	0.214	Kelembaban_udara	Suhu		
2	0.214	Kelembaban_udara	Cuaca = Cerah		
2	0.143	Kelembaban_udara	Cuaca = Hujan		
2	0.143	Kelembaban_udara	Cuaca = Mendung		
2	0.143	Berangin	Suhu		
2	0.143	Berangin	Cuaca = Cerah		
2	0.143	Berangin	Cuaca = Hujan		
2	0.143	Berangin	Cuaca = Mendung		
-	-	-	-	-	-
- Repository:** Shows a list of available datasets and models, including CuacaTesting, Data1, Data_LamaBelajarJadiLilaiUjian, Data_NilaiUjian, Data_PrediksiNilaiUjian, DataCuaca_Testing, DataCuaca_Training, Dataselolah_Training, dataTesting1.arff, dataTesting2222.arff, dataTraining1.arff, dataTraining2222.arff, hasil_cuaca, Lokasi_Testing, Lokasi_Training, M1, M11-induksi, M@, MODUL10, modul11.1, modul11.2, and perbaikan11.

RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data_operators_etc All Studio

Result History

AssociationRules (Create Association Rules)

Show rules matching all of these conclusions: Suhu Cuaca = Cerah

No.	Premises	Conclusion	Support
1	Berangin, Suhu	Cuaca = Cerah	0.143
2	Berangin, Cuaca = Cerah	Suhu	0.143
3	Kelembaban_udara, Berangin, Suhu	Cuaca = Cerah	0.071
4	Kelembaban_udara, Berangin, Cuaca = Cerah	Suhu	0.071

Min. Criterion: confidence

Min. Criterion Value:

FrequentItemSets (FP-Growth)

ExampleSet (Nominal to Binomial)

Repository

Import Data

- CuacaTesting (Person - v1, 11/7/19 11:11)
- data1 (Person - v1, 10/15/19 11:58 AM -)
- Data_LamaBelajardanNilaiUjian (Person - v1, 11/14/19)
- Data_NilaiUjian (Person - v1, 11/14/19)
- Data_PrediksNilaiUjian (Person - v1, 11/14/19)
- DataCuaca_Testing (LABSI-01 - v1, 11/7/19 11:11)
- DataCuaca_Training (LABSI-01 - v1, 11/7/19 11:11)
- Datasekolah_Training (LABSI-01 - v1, 11/7/19 11:11)
- dataTesting1.arff (Person - v1, 10/17/19 10:17)
- dataTesting2222.arff (Person - v1, 10/17/19 10:17)
- hasil_cuaca (Person - v1, 11/7/19 3:13)
- Lokasi_Testing (Person - v1, 10/16/19)
- Lokasi_Training (Person - v1, 10/16/19)
- M1 (Person - v1, 11/20/19 1:16 PM - 2 kB)
- M11-induksi (Person - v1, 11/21/19 10:5)
- M@_Person - v1, 11/20/19 1:20 PM - 5 kB
- MODUL10 (Person - v1, 11/6/19 1:33 PM)
- modul11.1 (LABSI-01 - v1, 11/20/19 1:1)
- modul11.2 (LABSI-01 - v1, 11/20/19 1:2)
- modul11.11 (Person - v1, 11/21/19 1:1)

RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data_operators_etc All Studio

Result History

AssociationRules (Create Association Rules)

Zoom ISOM

Node Labels Edge Labels

Show rules matching all of these conclusions: Suhu Cuaca = Cerah

Min. Criterion: confidence

Min. Criterion Value:

FrequentItemSets (FP-Growth)

ExampleSet (Nominal to Binomial)

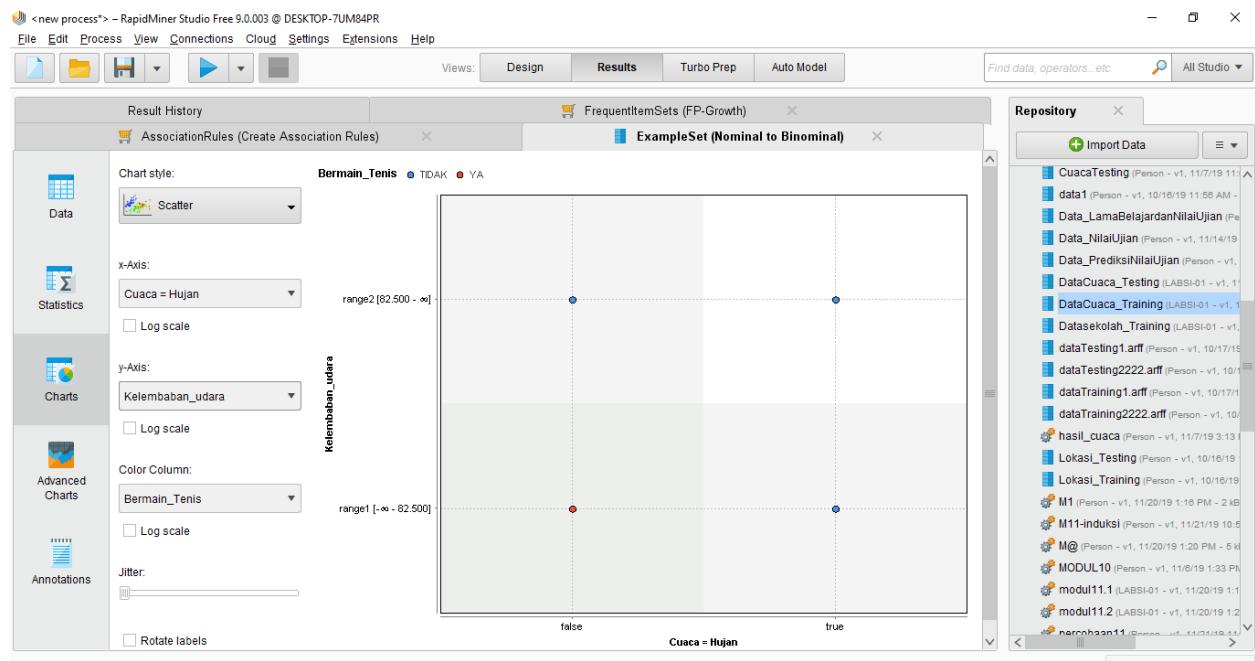
Repository

Import Data

- CuacaTesting (Person - v1, 11/7/19 11:11)
- data1 (Person - v1, 10/15/19 11:58 AM -)
- Data_LamaBelajardanNilaiUjian (Person - v1, 11/14/19)
- Data_NilaiUjian (Person - v1, 11/14/19)
- Data_PrediksNilaiUjian (Person - v1, 11/14/19)
- DataCuaca_Testing (LABSI-01 - v1, 11/7/19 11:11)
- DataCuaca_Training (LABSI-01 - v1, 11/7/19 11:11)
- Datasekolah_Training (LABSI-01 - v1, 11/7/19 11:11)
- dataTesting1.arff (Person - v1, 10/17/19 10:17)
- dataTesting2222.arff (Person - v1, 10/17/19 10:17)
- hasil_cuaca (Person - v1, 11/7/19 3:13)
- Lokasi_Testing (Person - v1, 10/16/19)
- Lokasi_Training (Person - v1, 10/16/19)
- M1 (Person - v1, 11/20/19 1:16 PM - 2 kB)
- M11-induksi (Person - v1, 11/21/19 10:5)
- M@_Person - v1, 11/20/19 1:20 PM - 5 kB
- MODUL10 (Person - v1, 11/6/19 1:33 PM)
- modul11.1 (LABSI-01 - v1, 11/20/19 1:1)
- modul11.2 (LABSI-01 - v1, 11/20/19 1:2)
- modul11.11 (Person - v1, 11/21/19 1:1)

```

graph TD
    Rule1[Rule 1 (0.143 / 1.000)] --- Kelembaban_udara
    Rule1 --- Suhu
    Rule1 --- CuacaCerah[Cuaca = Cerah]
    Rule1 --- Berangin[Berangin]
    Rule2[Rule 2 (0.143 / 1.000)] --- Kelembaban_udara
    Rule2 --- Suhu
    Rule2 --- CuacaCerah
    Rule2 --- Berangin
    Rule3[Rule 3 (0.071 / 1.000)] --- Kelembaban_udara
    Rule3 --- Suhu
    Rule3 --- CuacaCerah
    Rule3 --- Berangin
    Rule4[Rule 4 (0.071 / 1.000)] --- Kelembaban_udara
    Rule4 --- Suhu
    Rule4 --- CuacaCerah
    Rule4 --- Berangin
  
```



Nama : Tika Pratiwi

NIM : L200170046

Kelas : C

TUGAS

Import Data - Format your columns.

Format your columns.

Date format: MMM d, yyyy h:mm:ss a z ▾ Replace errors with missing values ⓘ

	Jurusan_SMA * polynominal	Gender * polynominal	Asal_Sekolah * polynominal	Rerata_SKS * integer	Asisten * polynominal	Lama_Studi * binominal label
1	IPS	WANITA	SURAKARTA	18	TIDAK	TERLAMBAT
2	IPA	PRIA	SURAKARTA	19	YA	TEPAT
3	LAIN	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT
4	IPA	PRIA	LUAR	17	TIDAK	TERLAMBAT
5	IPA	WANITA	SURAKARTA	17	TIDAK	TEPAT
6	IPA	WANITA	LUAR	18	YA	TEPAT
7	IPA	PRIA	SURAKARTA	18	YA	TERLAMBAT
8	IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT
9	IPS	PRIA	LUAR	18	TIDAK	TERLAMBAT
10	LAIN	WANITA	SURAKARTA	18	TIDAK	TEPAT
11	IPA	WANITA	SURAKARTA	19	TIDAK	TEPAT
12	IPS	PRIA	SURAKARTA	20	TIDAK	TEPAT
13	IPS	PRIA	SURAKARTA	19	TIDAK	TEPAT

✓ no problems.

Previous Next Cancel

RapidMiner Studio Free 9.0.003

Data View: ExampleSet (/Local Repository/Data_siswa_training) | ExampleSet (/Local Repository/Mahasiswa2)

Repository: Training Resources (connected), Samples, Community Samples (connected), DB, Local Repository (LABSI-01), Connections (LABSI-01), data (LABSI-01), processes (LABSI-01), Book1, Cuaca, CuacaTesting, data1, Data_LamaBelajardanNilaiUjian, Data_NilaiUjian, Data_PrediksiNilaiUjian, Data_siswa_training, DataCuaca_Testing, DataCuaca_Training, Dasesekolah_Training.

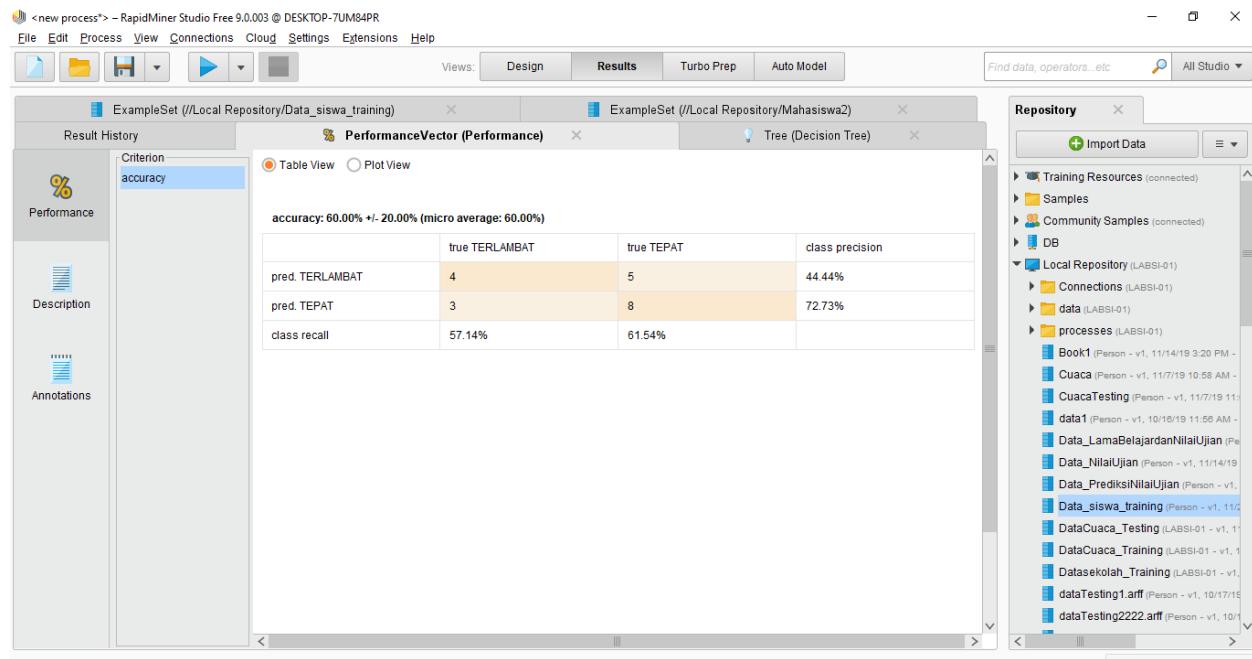
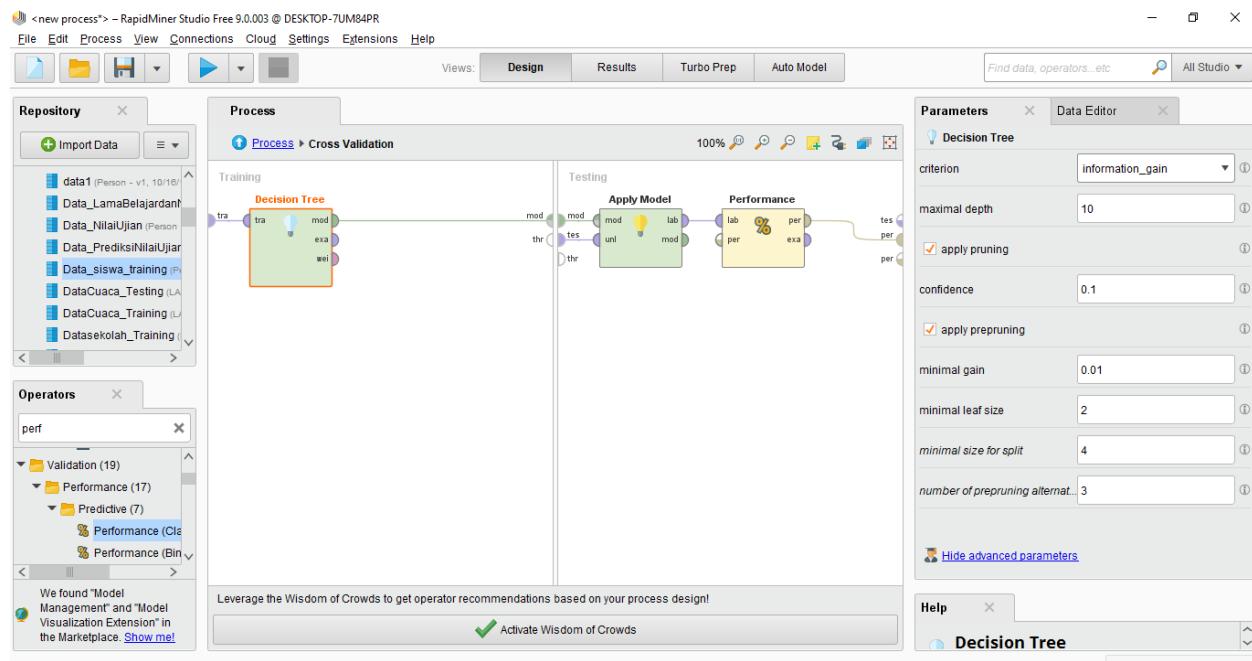
Row No.	Lama_Studi	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_SKS	Asisten
1	TERLAMBAT	IPS	WANITA	SURAKARTA	18	TIDAK
2	TEPAT	IPA	PRIA	SURAKARTA	19	YA
3	TERLAMBAT	LAIN	PRIA	SURAKARTA	19	TIDAK
4	TERLAMBAT	IPA	PRIA	LUAR	17	TIDAK
5	TEPAT	IPA	WANITA	SURAKARTA	17	TIDAK
6	TEPAT	IPA	WANITA	LUAR	18	YA
7	TERLAMBAT	IPA	PRIA	SURAKARTA	18	TIDAK
8	TEPAT	IPA	PRIA	SURAKARTA	19	TIDAK
9	TERLAMBAT	IPS	PRIA	LUAR	18	TIDAK
10	TEPAT	LAIN	WANITA	SURAKARTA	18	TIDAK
11	TEPAT	IPA	WANITA	SURAKARTA	19	TIDAK
12	TEPAT	IPS	PRIA	SURAKARTA	20	TIDAK
13	TEPAT	IPS	PRIA	SURAKARTA	19	TIDAK
14	TEPAT	IPA	PRIA	SURAKARTA	19	TIDAK
15	TEPAT	IPA	PRIA	LUAR	22	YA
16	TERLAMBAT	LAIN	PRIA	SURAKARTA	16	TIDAK
17	TEPAT	IPS	PRIA	LUAR	20	TIDAK

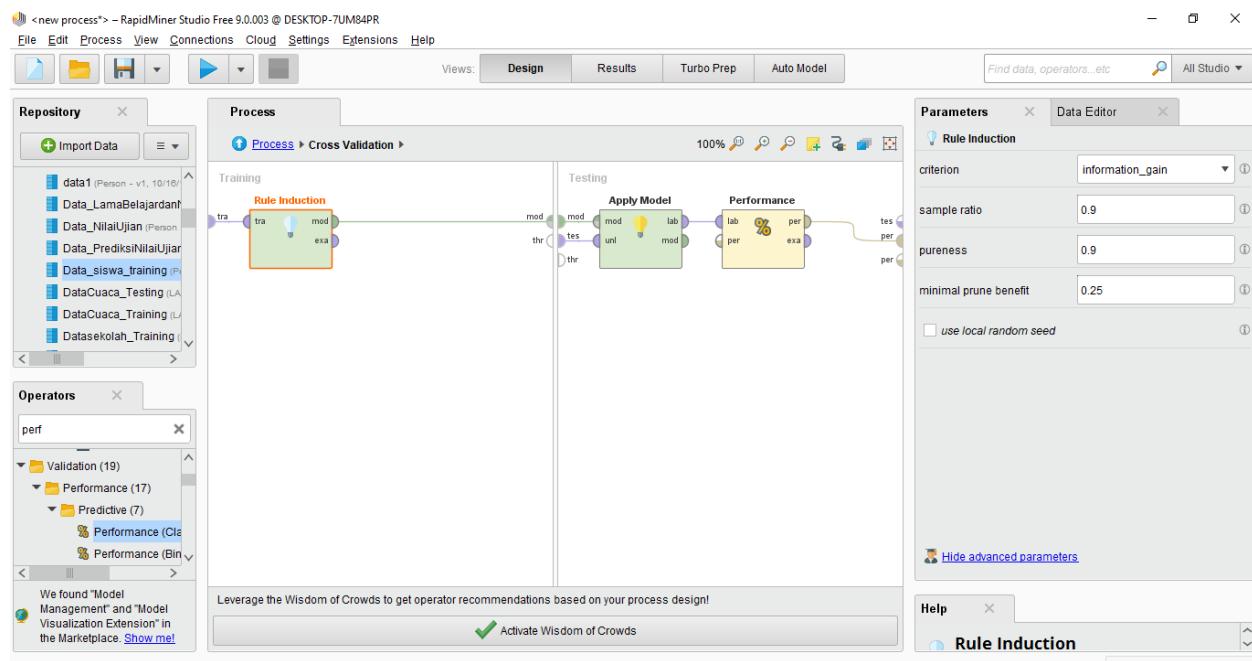
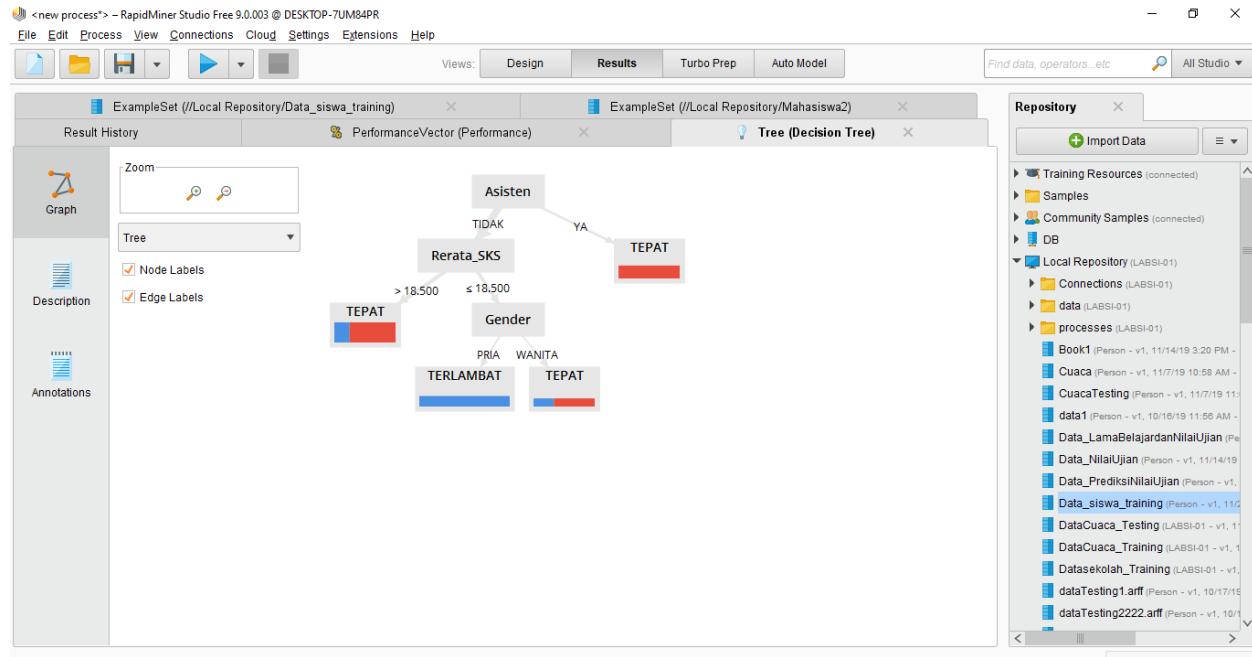
Process View: Process

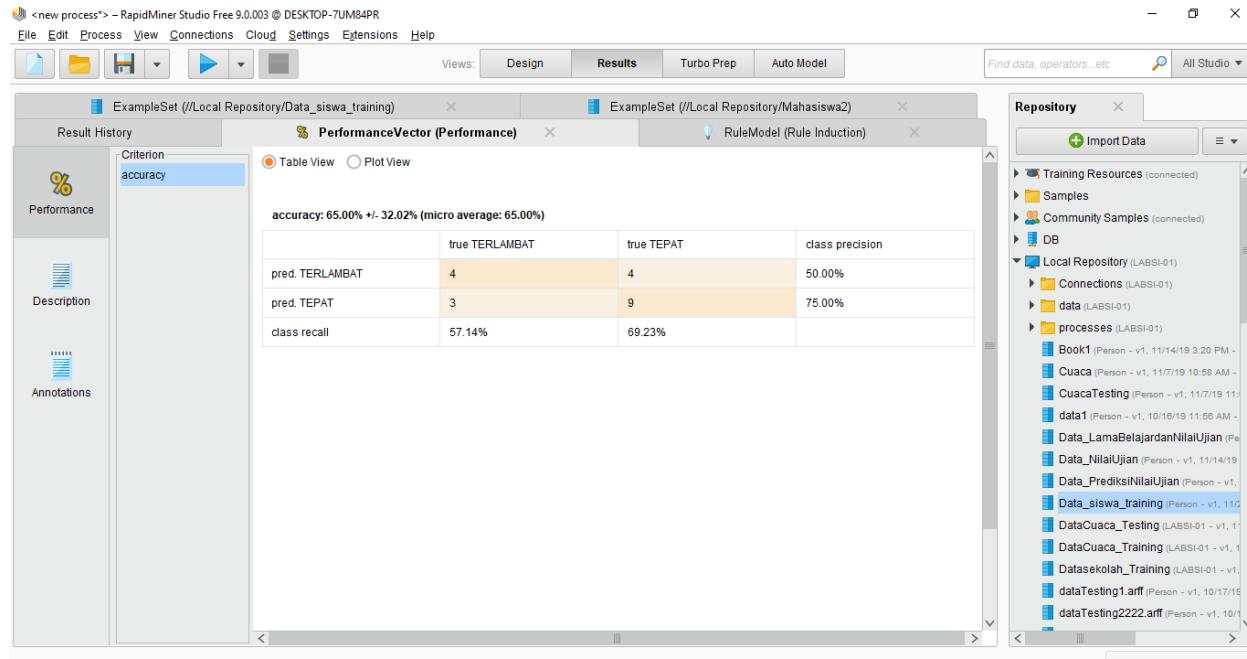
Operators: cross vali, Validation (1), Cross Validation.

Parameters: logverbosity: init, logfile, resultfile, random seed: 2001, send mail: never, encoding: SYSTEM.

Help: Process





 <new process> - RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data_operators_etc All Studio

ExampleSet (/Local Repository/Data_siswa_training) ExampleSet (/Local Repository/Mahasiswa2) RuleModel (Rule Induction)

Result History

Criterion accuracy

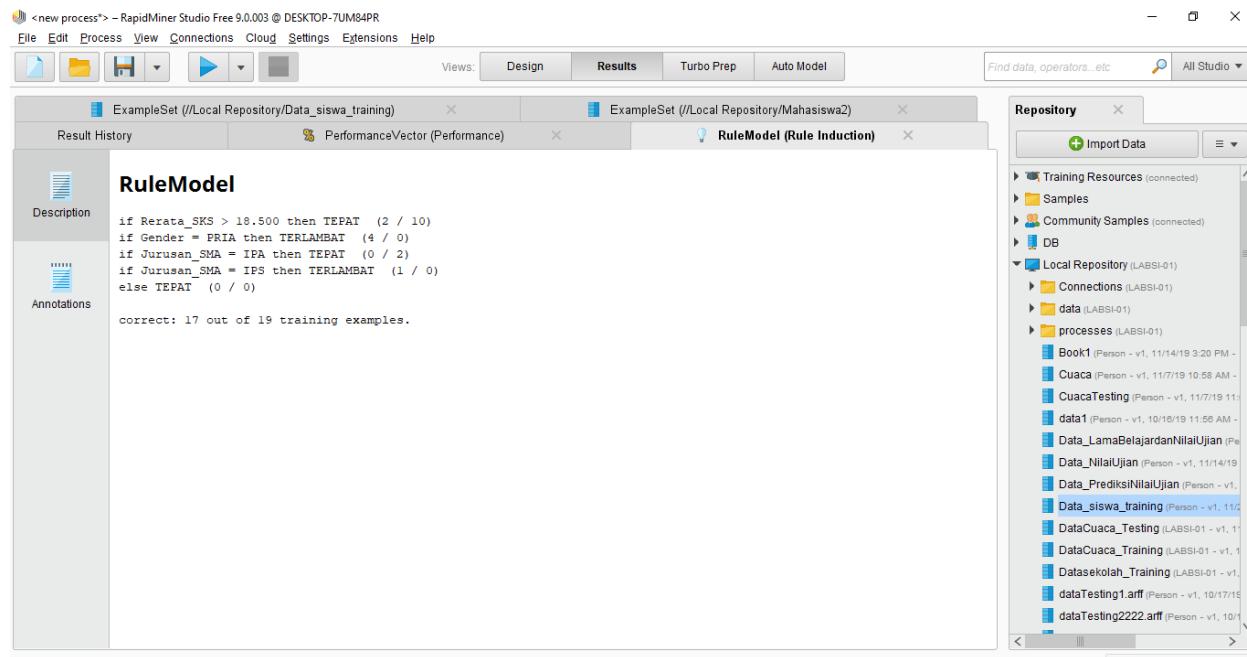
accuracy: 65.00% +/- 32.02% (micro average: 65.00%)

	true TERLAMBAT	true TEPAT	class precision
pred. TERLAMBAT	4	4	50.00%
pred. TEPAT	3	9	75.00%
class recall	57.14%	69.23%	

Description Annotations

Repository

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-01)
 - Connections (LABSI-01)
 - data (LABSI-01)
 - processes (LABSI-01)
 - Book1 (Person - v1, 11/14/19 3:20 PM -)
 - Cuaca (Person - v1, 11/7/19 10:58 AM -)
 - CuacaTesting (Person - v1, 11/7/19 11:15 AM -)
 - data1 (Person - v1, 10/15/19 11:58 AM -)
 - Data_LamaBelajardanNilaiUjian (Person - v1, 11/14/19 3:20 PM -)
 - Data_NilaiUjian (Person - v1, 11/14/19 3:20 PM -)
 - Data_PrediksNilaiUjian (Person - v1, 11/14/19 3:20 PM -)
 - Data_siswa_training (Person - v1, 11/2/19 10:58 AM -)
 - DataCuaca_Testing (LABSI-01 - v1, 11/7/19 11:15 AM -)
 - DataCuaca_Training (LABSI-01 - v1, 11/7/19 11:15 AM -)
 - Datasekolah_Training (LABSI-01 - v1, 11/7/19 11:15 AM -)
 - dataTesting1.arff (Person - v1, 10/17/19 11:58 AM -)
 - dataTesting2222.arff (Person - v1, 10/17/19 11:58 AM -)

 <new process> - RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data_operators_etc All Studio

ExampleSet (/Local Repository/Data_siswa_training) ExampleSet (/Local Repository/Mahasiswa2) RuleModel (Rule Induction)

Result History

RuleModel

```

if Rerata_SKS > 18.500 then TEPAT (2 / 10)
if Gender = PRIA then TERLAMBAT (4 / 0)
if Jurusan_SMA = IPA then TEPAT (0 / 2)
if Jurusan_SMA = IPS then TERLAMBAT (1 / 0)
else TEPAT (0 / 0)

correct: 17 out of 19 training examples.

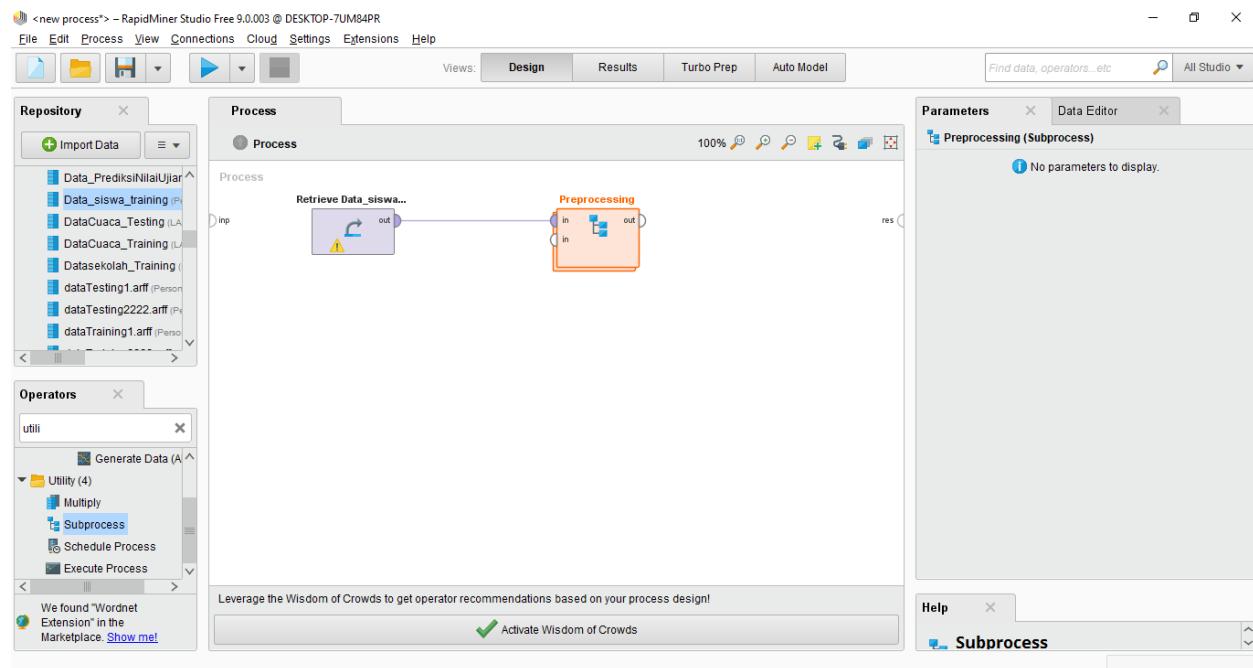
```

Description Annotations

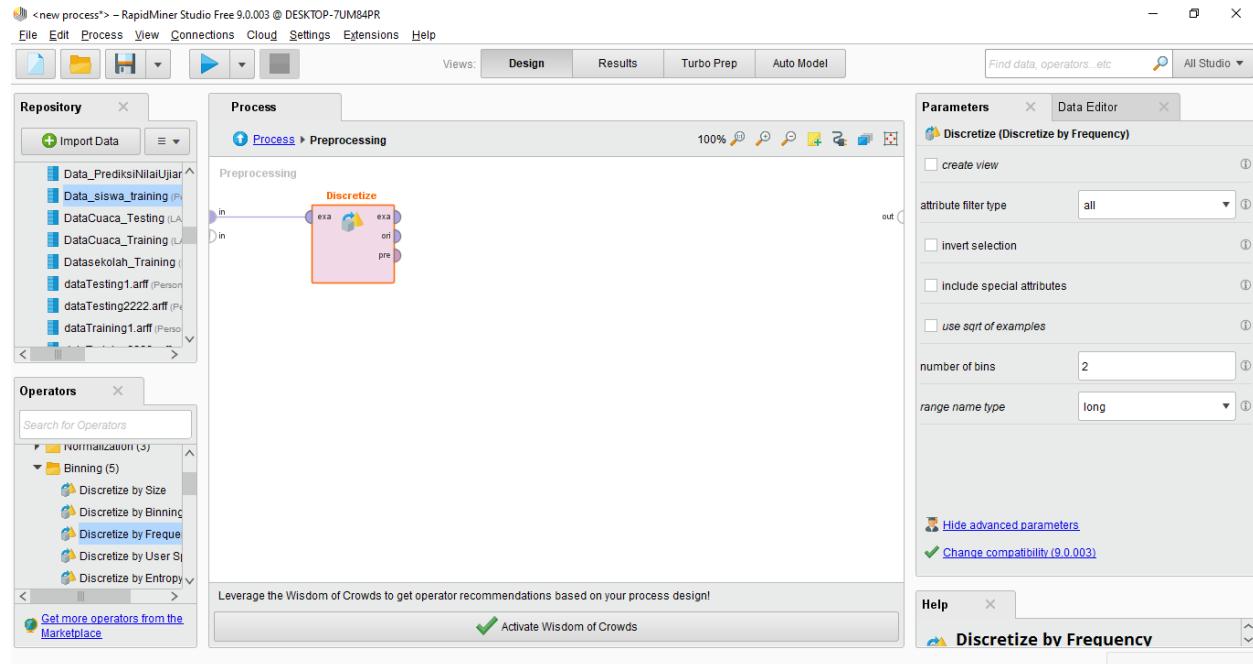
Repository

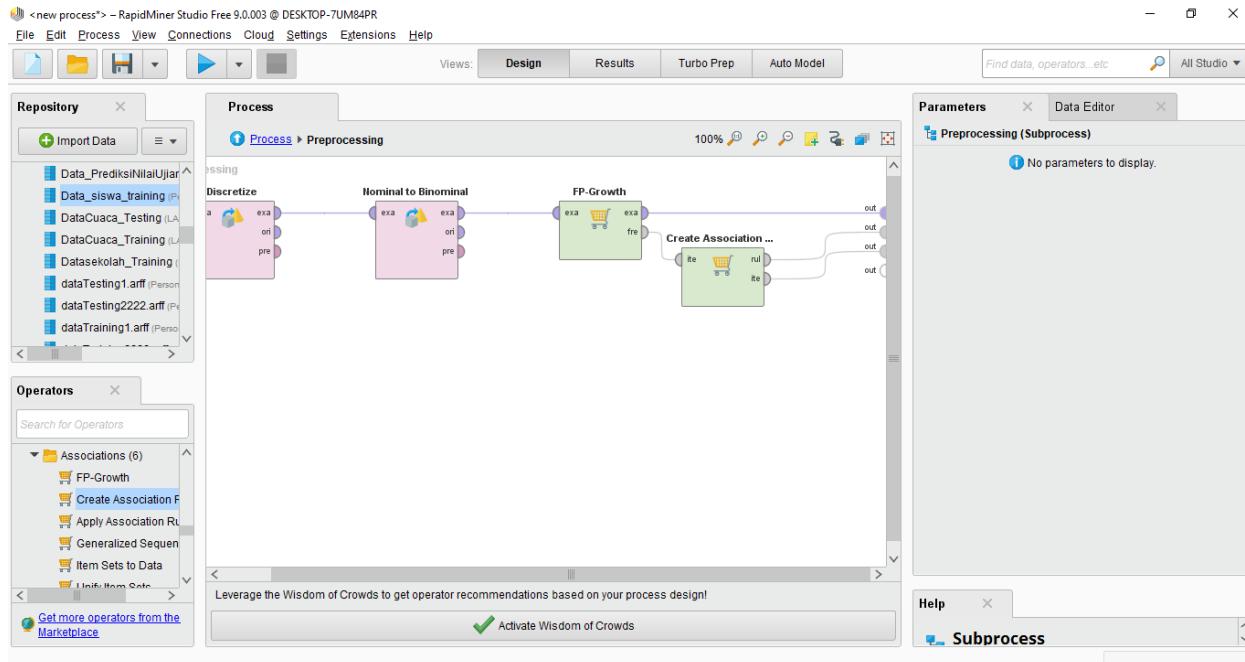
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-01)
 - Connections (LABSI-01)
 - data (LABSI-01)
 - processes (LABSI-01)
 - Book1 (Person - v1, 11/14/19 3:20 PM -)
 - Cuaca (Person - v1, 11/7/19 10:58 AM -)
 - CuacaTesting (Person - v1, 11/7/19 11:15 AM -)
 - data1 (Person - v1, 10/15/19 11:58 AM -)
 - Data_LamaBelajardanNilaiUjian (Person - v1, 11/14/19 3:20 PM -)
 - Data_NilaiUjian (Person - v1, 11/14/19 3:20 PM -)
 - Data_PrediksNilaiUjian (Person - v1, 11/14/19 3:20 PM -)
 - Data_siswa_training (Person - v1, 11/2/19 10:58 AM -)
 - DataCuaca_Testing (LABSI-01 - v1, 11/7/19 11:15 AM -)
 - DataCuaca_Training (LABSI-01 - v1, 11/7/19 11:15 AM -)
 - Datasekolah_Training (LABSI-01 - v1, 11/7/19 11:15 AM -)
 - dataTesting1.arff (Person - v1, 10/17/19 11:58 AM -)
 - dataTesting2222.arff (Person - v1, 10/17/19 11:58 AM -)

11.4.2.



2.a. number of bins=2





- Jumlah set aturan asosiasi=55

Max size=5

The screenshot shows the results of the "Create Association Rules" operator. The "AssociationRules" tab displays the following table:

No. of Sets:	55
Total Max. Size:	5
Min. Size:	1
Max. Size:	5
Contains Item:	[Select Box]
Update View	

The "FrequentItemSets" tab shows the following frequent item sets:

Size	Support	Item 1	Item 2	Item 3	Item 4	Item 5
1	0.750	Gender				
1	0.500	Jurusan_SMA = ...				
1	0.300	Asal_Sekolah				
1	0.300	Jurusan_SMA = ...				
1	0.250	Asisten				
1	0.250	Rerata_SKS				
1	0.200	Jurusan_SMA = ...				
2	0.350	Gender	Jurusan_SMA = ...			
2	0.250	Gender	Asal_Sekolah			
2	0.250	Gender	Jurusan_SMA = ...			
2	0.200	Gender	Asisten			
2	0.250	Gender	Rerata_SKS			
2	0.150	Gender	Jurusan_SMA = ...			
2	0.150	Jurusan_SMA = ...	Asal_Sekolah			
2	0.200	Jurusan_SMA = ...	Asisten			

The "Repository" tab lists various datasets and models used in the process:

- Data_PrediksiNilaiUjian
- Data_siswa_training
- DataCuaca_Testing
- DataCuaca_Training
- Datasekolah_Training
- dataTesting1.arff
- dataTesting2222.arff
- dataTraining1.arff
- hasil_cuaca
- Lokasi_Testing
- Lokasi_Training
- M1
- M11-induksi
- M@
- Mahasiswa2
- MODUL10
- modul11.1
- modul11.2
- percobaan11
- Tabel Testing

- Jumlah data pasangan premis=66

Kesimpulan pada association rules=

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc **All Studio**

Repository **+ Import Data**

No.	Premises	Conclusion	Support
3	Asal_Sekolah	Gender	0.250
4	Jurusan_SMA = IPA Asal_Sekolah Asisten Rerata_SKS	Gender	0.250
5	Rerata_SKS	Gender	0.250
6	Jurusan_SMA = IPA, Rerata_SKS	Gender	0.100
7	Asal_Sekolah, Jurusan_SMA = IPS	Jurusan_SMA = IPA, Rerata_SKS	0.100
8	Asal_Sekolah, Rerata_SKS	Gender	0.150
9	Asal_Sekolah, Jurusan_SMA = LAIN	Gender	0.050
10	Jurusan_SMA = IPS, Rerata_SKS	Gender	0.100
11	Asisten, Rerata_SKS	Gender	0.150
12	Asisten, Jurusan_SMA = LAIN	Gender	0.050
13	Rerata_SKS, Jurusan_SMA = LAIN	Gender	0.050
14	Jurusan_SMA = IPA, Rerata_SKS	Asisten	0.100
15	Asal_Sekolah, Jurusan_SMA = LAIN	Asisten	0.050
16	Asisten, Jurusan_SMA = LAIN	Asal_Sekolah	0.050
17	Asal_Sekolah, Jurusan_SMA = LAIN	Rerata_SKS	0.050

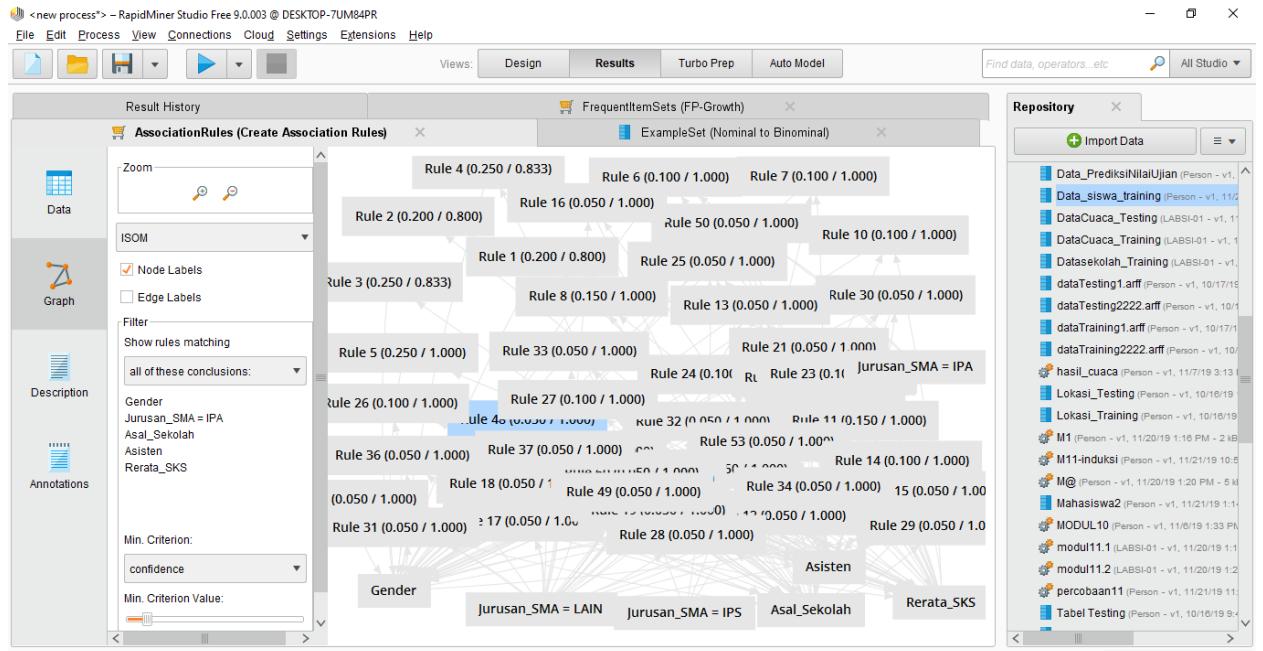
File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

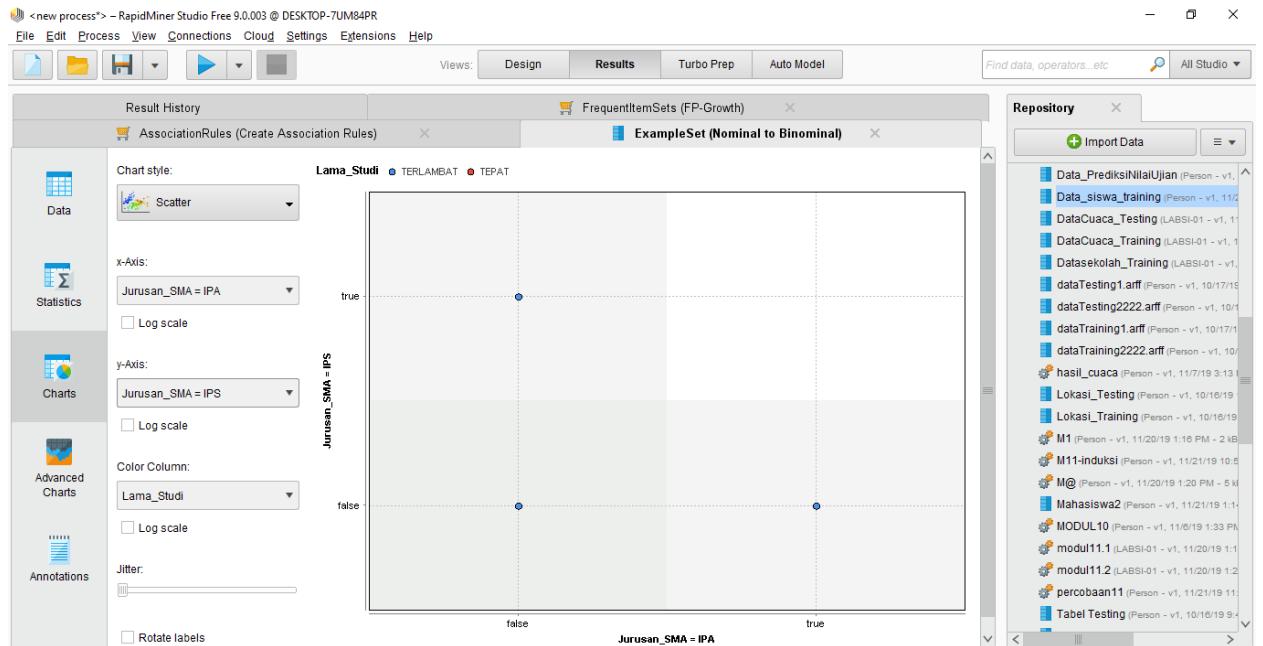
Find data, operators...etc **All Studio**

Repository **+ Import Data**

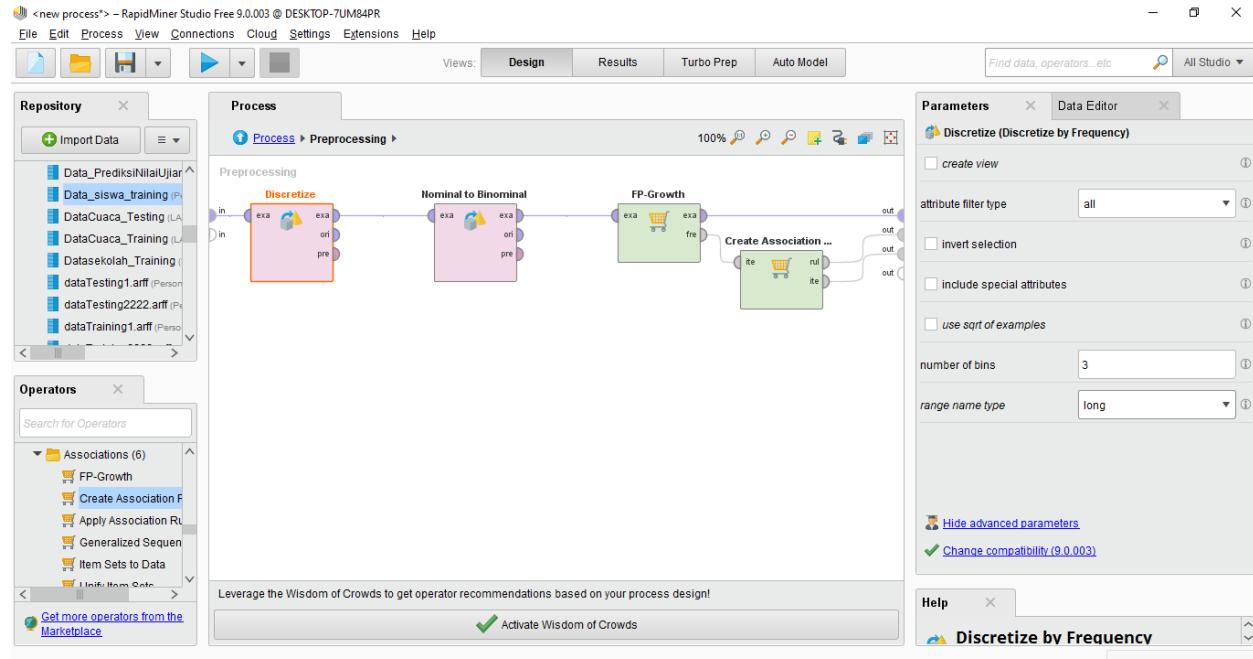
No.	Premises	Conclusion	Support
52	Gender, Jurusan_SMA = IPA, Asal_Sekolah, Rerat...	Asisten	0.050
53	Jurusan_SMA = IPA, Asal_Sekolah, Asisten, Rerat...	Gender	0.050
54	Asal_Sekolah, Jurusan_SMA = LAIN	Gender, Asisten, Rerata_SKS	0.050
55	Gender, Asal_Sekolah, Jurusan_SMA = LAIN	Asisten, Rerata_SKS	0.050
56	Asisten, Jurusan_SMA = LAIN	Gender, Asal_Sekolah, Rerata_SKS	0.050
57	Gender, Asisten, Jurusan_SMA = LAIN	Asal_Sekolah, Rerata_SKS	0.050
58	Asal_Sekolah, Asisten, Jurusan_SMA = LAIN	Gender, Rerata_SKS	0.050
59	Gender, Asal_Sekolah, Asisten, Jurusan_SMA = L...	Rerata_SKS	0.050
60	Rerata_SKS, Jurusan_SMA = LAIN	Gender, Asal_Sekolah, Asisten	0.050
61	Gender, Rerata_SKS, Jurusan_SMA = LAIN	Asal_Sekolah, Asisten	0.050
62	Asal_Sekolah, Rerata_SKS, Jurusan_SMA = LAIN	Gender, Asisten	0.050
63	Gender, Asal_Sekolah, Rerata_SKS, Jurusan_SMA =...	Asisten	0.050
64	Asisten, Rerata_SKS, Jurusan_SMA = LAIN	Gender, Asal_Sekolah	0.050
65	Gender, Asisten, Rerata_SKS, Jurusan_SMA = LAIN	Asal_Sekolah	0.050
66	Asal_Sekolah, Asisten, Rerata_SKS, Jurusan_SMA =...	Gender	0.050



- Grafik chart

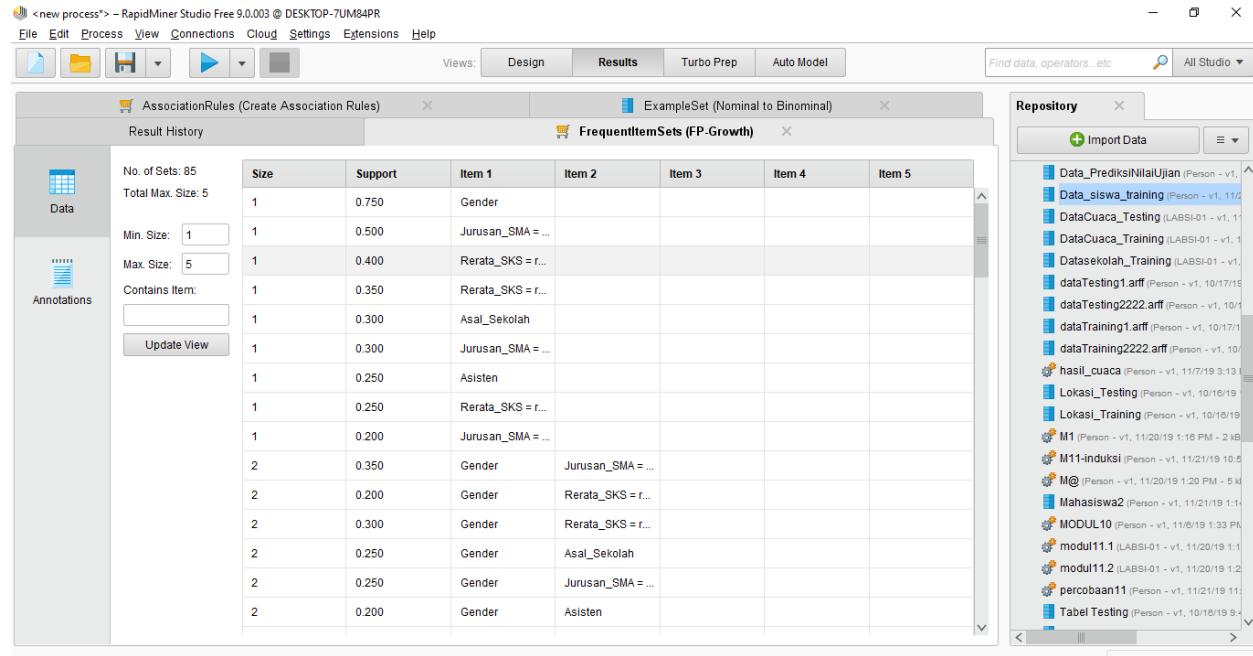


2b. number of bins=3



- Jumlah set aturan asosiasi=85

Max size=5



- Jumlah data pasangan premis=81
Kesimpulan pada association rules=

<new process> - RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

Result History

AssociationRules (Create Association Rules)

Show rules matching: all of these conclusions:

Gender
Jurusan_SMA = IPA
Asal_Sekolah
Asisten
Rerata_SKS = range3 [19.500 - ∞]

Min. Criterion: confidence

Min. Criterion Value: 0.05

FrequentItemSets (FP-Growth)

ExampleSet (Nominal to Binomial)

No.	Premises	Conclusion	Support
3	Asal_Sekolah	Gender	0.250
4	Jurusan_SMA = IPS	Gender	0.250
5	Rerata_SKS = range2 [18.500 - 19.500] Jurusan_SMA = IPS		0.300
6	Rerata_SKS = range3 [19.500 - ∞]	Gender	0.250
7	Jurusan_SMA = IPA, Rerata_SKS = range3 [19.50...	Gender	0.100
8	Rerata_SKS = range2 [18.500 - 19.500], Jurusan_SMA = IPS	Gender	0.100
9	Rerata_SKS = range2 [18.500 - 19.500], Asisten	Gender	0.050
10	Rerata_SKS = range2 [18.500 - 19.500], Jurusan_SMA = IPS	Gender	0.050
11	Asal_Sekolah, Jurusan_SMA = IPS	Gender	0.100
12	Asal_Sekolah, Rerata_SKS = range3 [19.500 - ∞]	Gender	0.150
13	Asal_Sekolah, Jurusan_SMA = LAIN	Gender	0.050
14	Jurusan_SMA = IPS, Rerata_SKS = range3 [19.50...	Gender	0.100
15	Asisten, Rerata_SKS = range3 [19.500 - ∞]	Gender	0.150
16	Asisten, Jurusan_SMA = LAIN	Gender	0.050
17	Rerata_SKS = range3 [19.500 - ∞], Jurusan_SMA = IPS	Gender	0.050

Repository

Import Data

- Data_PrediksNilaiUjian (Person - v1, 11/12)
- Data_siswa_training (Person - v1, 11/12)
- DataCuaca_Testing (LABSI-01 - v1, 1)
- DataCuaca_Training (LABSI-01 - v1, 1)
- Datesekolah_Training (LABSI-01 - v1, 1)
- dataTesting1.aff (Person - v1, 10/17/15)
- dataTesting2222.aff (Person - v1, 10/17/15)
- dataTraining1.aff (Person - v1, 10/17/15)
- dataTraining2222.aff (Person - v1, 10/17/15)
- hasil_cuaca (Person - v1, 11/21/19 3:13)
- Lokasi_Testing (Person - v1, 10/16/19)
- Lokasi_Training (Person - v1, 10/16/19)
- M1 (Person - v1, 11/20/19 1:16 PM - 2 kB)
- M11-induksi (Person - v1, 11/21/19 10:5)
- M@ (Person - v1, 11/20/19 1:20 PM - 5 kB)
- Mahasiswa2 (Person - v1, 11/21/19 1:1)
- MODUL10 (Person - v1, 11/6/19 1:33 PM)
- modul11.1 (LABSI-01 - v1, 11/20/19 1:1)
- modul11.2 (LABSI-01 - v1, 11/20/19 1:2)
- percobaan11 (Person - v1, 11/21/19 11:)
- Tabel Testing (Person - v1, 10/16/19 9:4)

<new process> - RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

Result History

AssociationRules (Create Association Rules)

Show rules matching: all of these conclusions:

Gender
Jurusan_SMA = IPA
Asal_Sekolah
Asisten
Rerata_SKS = range3 [19.500 - ∞]

Min. Criterion: confidence

Min. Criterion Value: 0.05

FrequentItemSets (FP-Growth)

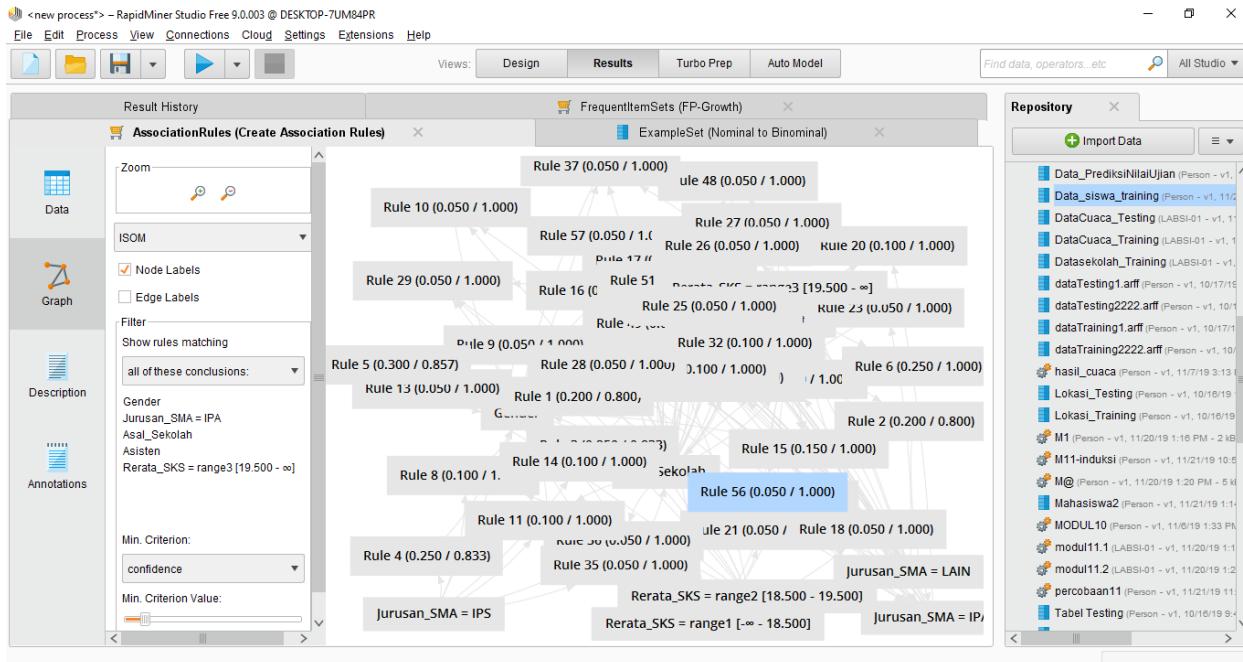
ExampleSet (Nominal to Binomial)

No.	Premises	Conclusion	Support
67	Gender, Jurusan_SMA = IPA, Asal_Sekolah, Rerat...	Asisten	0.050
68	Jurusan_SMA = IPA, Asal_Sekolah, Asisten, Rerat...	Gender	0.050
69	Asal_Sekolah, Jurusan_SMA = LAIN	Gender, Asisten, Rerata_SKS = range3 [19.500 - ∞]	0.050
70	Gender, Asal_Sekolah, Jurusan_SMA = LAIN	Asisten, Rerata_SKS = range3 [19.500 - ∞]	0.050
71	Asisten, Jurusan_SMA = LAIN	Gender, Asal_Sekolah, Rerata_SKS = range3 [19.500 - ∞]	0.050
72	Gender, Asisten, Jurusan_SMA = LAIN	Asal_Sekolah, Rerata_SKS = range3 [19.500 - ∞]	0.050
73	Asal_Sekolah, Asisten, Jurusan_SMA = LAIN	Gender, Rerata_SKS = range3 [19.500 - ∞]	0.050
74	Gender, Asal_Sekolah, Asisten, Jurusan_SMA = L...	Rerata_SKS = range3 [19.500 - ∞]	0.050
75	Rerata_SKS = range3 [19.500 - ∞], Jurusan_SMA ...	Gender, Asal_Sekolah, Asisten	0.050
76	Gender, Rerata_SKS = range3 [19.500 - ∞], Jurus...	Asal_Sekolah, Asisten	0.050
77	Asal_Sekolah, Rerata_SKS = range3 [19.500 - ∞]...	Gender, Asisten	0.050
78	Gender, Asal_Sekolah, Rerata_SKS = range3 [19.50...	Asisten	0.050
79	Asisten, Rerata_SKS = range3 [19.500 - ∞], Jurus...	Gender, Asal_Sekolah	0.050
80	Gender, Asisten, Rerata_SKS = range3 [19.500 - ...	Asal_Sekolah	0.050
81	Asal_Sekolah, Asisten, Rerata_SKS = range3 [19...	Gender	0.050

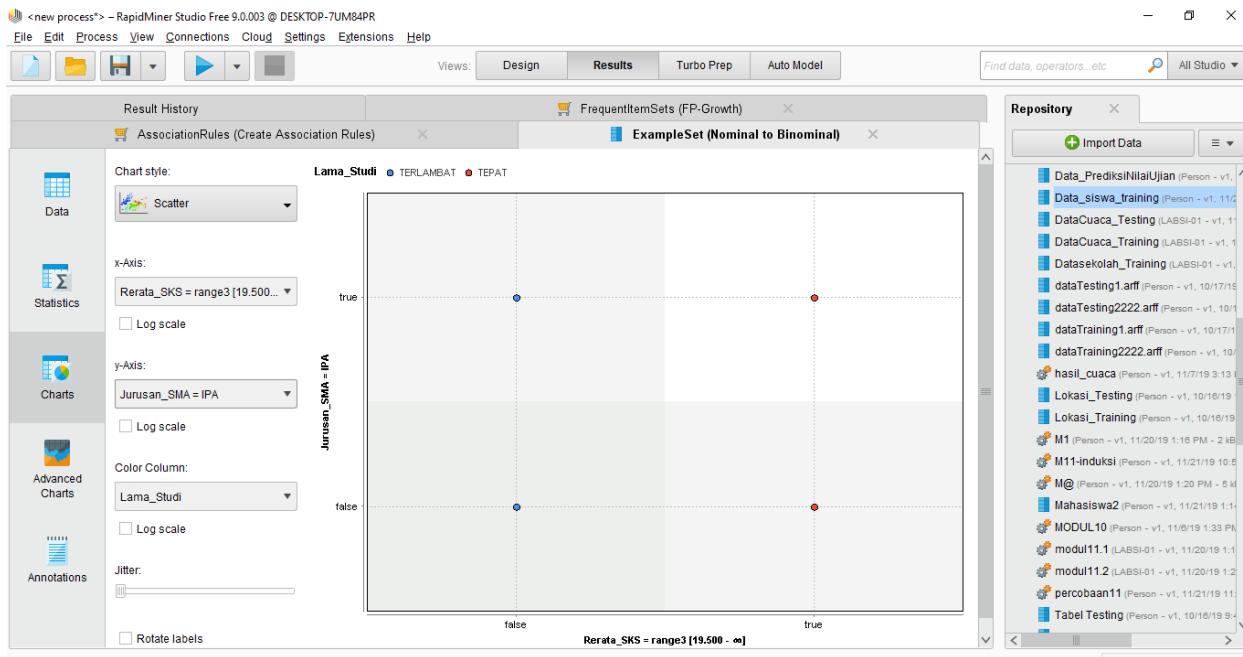
Repository

Import Data

- Data_PrediksNilaiUjian (Person - v1, 11/12)
- Data_siswa_training (Person - v1, 11/12)
- DataCuaca_Testing (LABSI-01 - v1, 1)
- DataCuaca_Training (LABSI-01 - v1, 1)
- Datesekolah_Training (LABSI-01 - v1, 1)
- dataTesting1.aff (Person - v1, 10/17/15)
- dataTesting2222.aff (Person - v1, 10/17/15)
- dataTraining1.aff (Person - v1, 10/17/15)
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- Lokasi_Testing (Person - v1, 10/16/19)
- Lokasi_Training (Person - v1, 10/16/19)
- M1 (Person - v1, 11/20/19 1:16 PM - 2 kB)
- M11-induksi (Person - v1, 11/21/19 10:5)
- M@ (Person - v1, 11/20/19 1:20 PM - 5 kB)
- Mahasiswa2 (Person - v1, 11/21/19 1:1)
- MODUL10 (Person - v1, 11/6/19 1:33 PM)
- modul11.1 (LABSI-01 - v1, 11/20/19 1:1)
- modul11.2 (LABSI-01 - v1, 11/20/19 1:2)
- percobaan11 (Person - v1, 11/21/19 11:)
- Tabel Testing (Person - v1, 10/16/19 9:4)



- Grafik chart



Nama : Tika Pratiwi

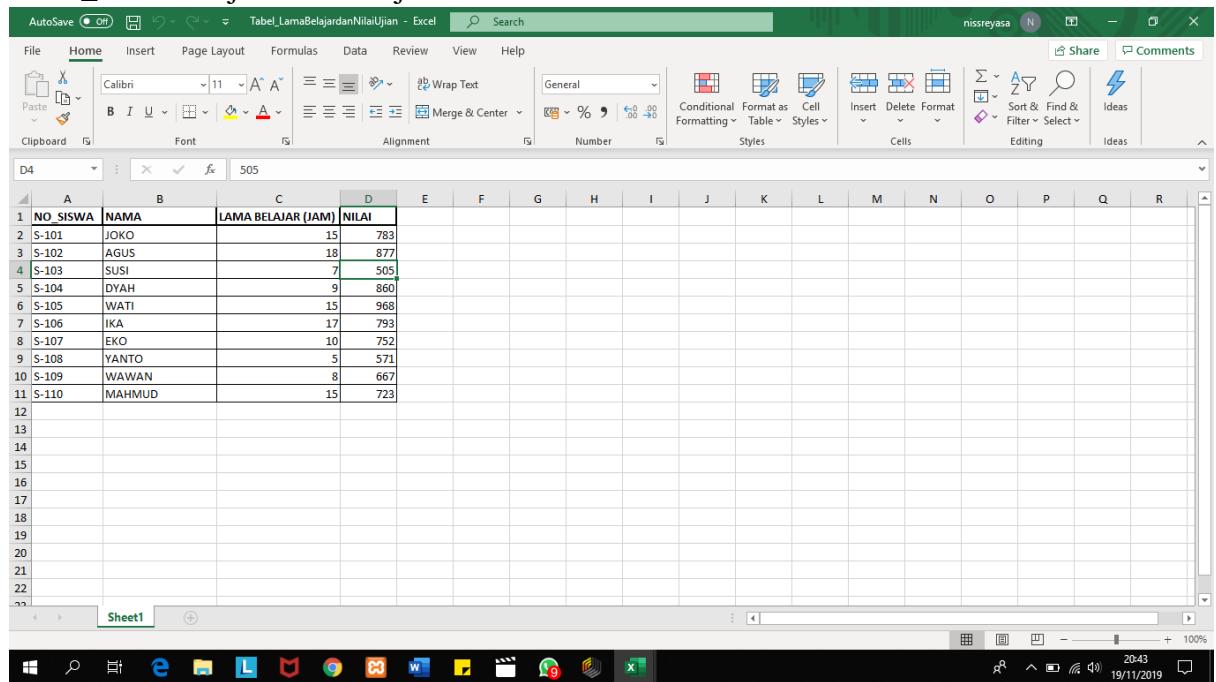
NIM : L200170046

Kelas : C

MODUL 12

Percobaan 1

1. Buka MS Excel dan buat table data berikut. Lalu simpan dengan nama Tabel_LamaBelajardanNilaiUjian.xlsx



The screenshot shows a Microsoft Excel spreadsheet titled "Tabel_LamaBelajardanNilaiUjian - Excel". The table has four columns: NO_SISWA, NAMA, LAMA BELAJAR (JAM), and NILAI. The data consists of 11 rows of student information. The table is selected, and the formula bar shows the address D4. The ribbon menu is visible at the top.

NO_SISWA	NAMA	LAMA BELAJAR (JAM)	NILAI
2 S-101	JOKO	15	783
3 S-102	AGUS	18	877
4 S-103	SUSI	7	505
5 S-104	DYAH	9	860
6 S-105	WATI	15	968
7 S-106	IKA	17	793
8 S-107	EKO	10	752
9 S-108	YANTO	5	571
10 S-109	WAWAN	8	667
11 S-110	MAHMUD	15	723

2. Jalankan aplikasi RapidMiner
3. Import file Tabel_LamaBelajardanNilaiUjian.xlsx ke dalam RapidMiner
4. Ubah tipe data dan jenis masing-masing atribut sebagai berikut :
 - a. NO_SISWA : polynomial, id
 - b. NAMA : pilih Exclude Coloumn
 - c. LAMA_BELAJAR : integer
 - d. NILAI : integer, label

Import Data - Format your columns.

Format your columns.

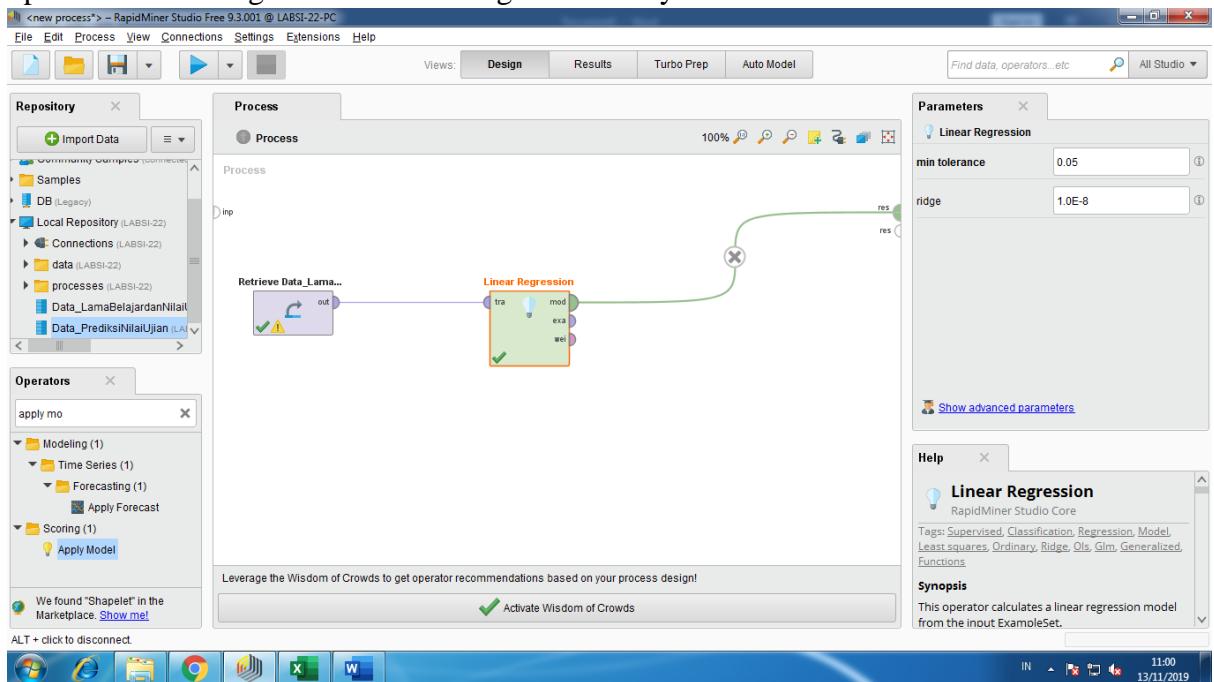
Replace errors with missing values ⓘ

NO_SISWA <small>polynominal id</small>	NAMA <small>polynominal</small>	LAMA BELAJAR (JAM) <small>integer</small>	NILAI <small>integer label</small>
1 S-101	JOKO	15	783
2 S-102	AGUS	18	877
3 S-103	SUSI	7	505
4 S-104	DYAH	9	860
5 S-105	WATI	15	968
6 S-106	IKA	17	793
7 S-107	EKO	10	752
8 S-108	YANTO	5	571
9 S-109	WAWAN	8	667
10 S-110	MAHMUD	15	723

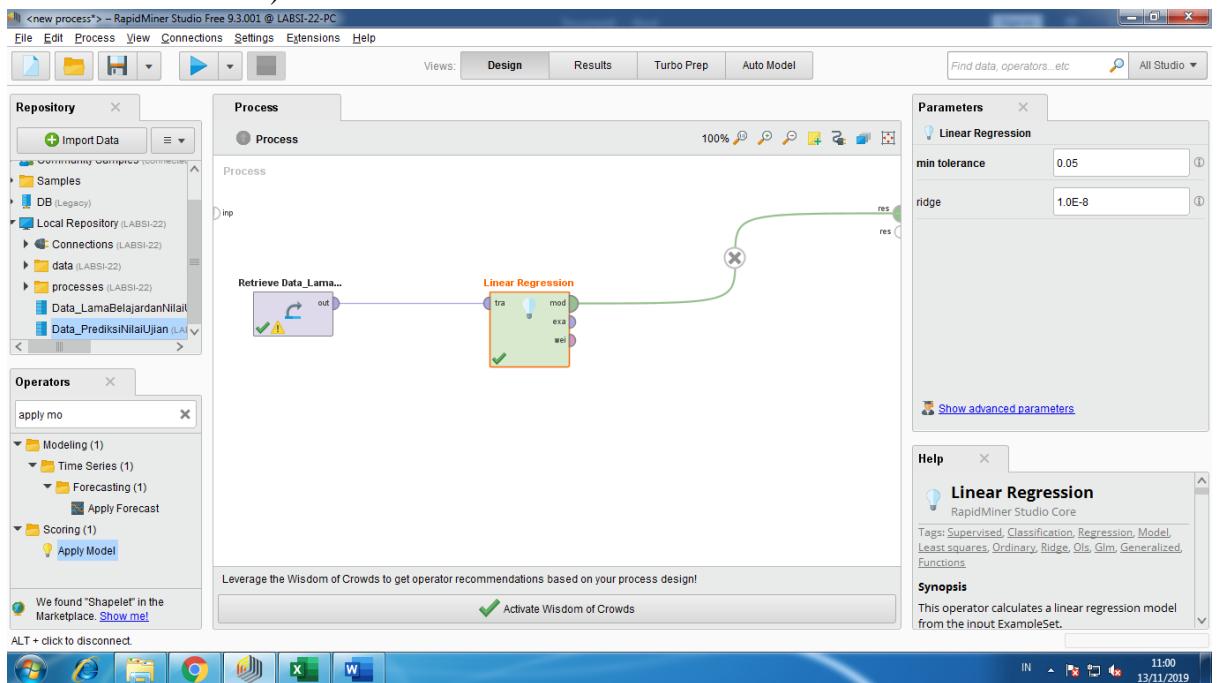
✓ no problems.

Kemudian klik Finish lalu simpan dengan nama Data_LamaBelajardanNilaiUjian

5. Masukkan Data_LamaBelajardanNilaiUjian ke dalam area process. Kemudian cari operator Linear Regression dan hubungkan keduanya.



6. Klik operator Linear Regression, tentukan parameter min tolerance = 0.05 (batas toleransi sebesar 5%). Lalu klik F11 atau Run.



7. Hasil :

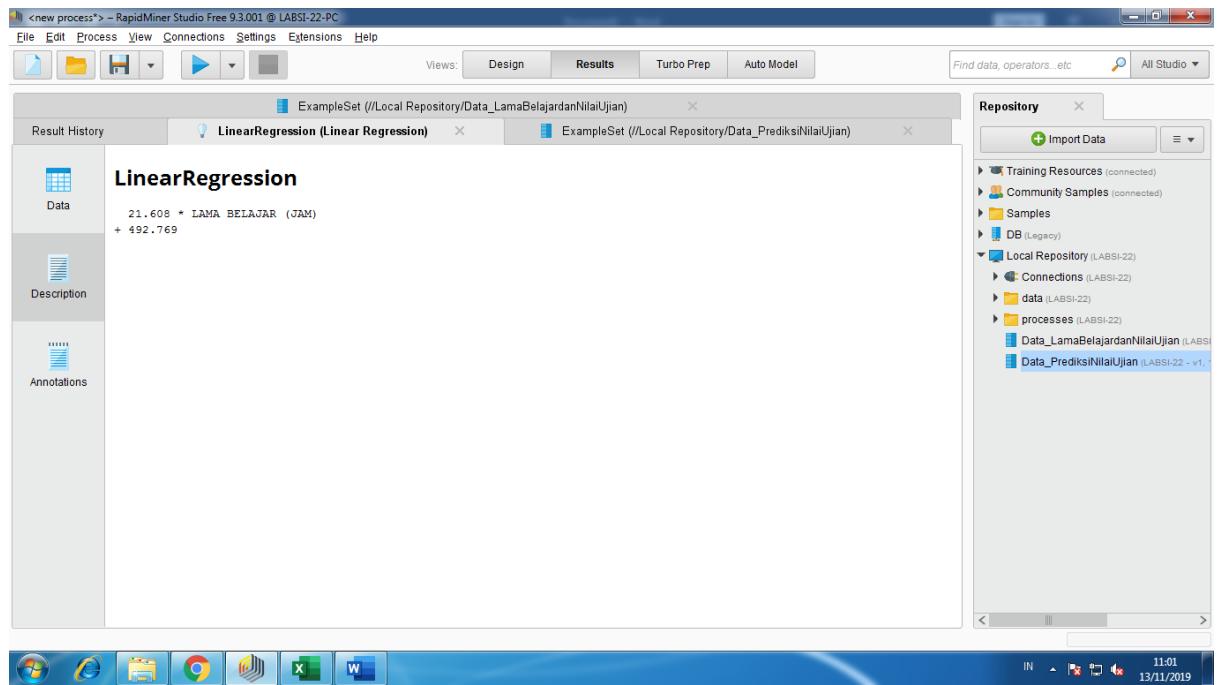
a. Table View

The screenshot shows the Results view in RapidMiner Studio. It displays a table titled 'LinearRegression (Linear Regression)' with the following data:

Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
LAMA BELAJAR (days)	21.608	7.645	0.707	1	2.827	0.022	**
(Intercept)	492.769	96.909	?	?	5.085	0.001	****

The Repository pane on the right shows 'Training Resources (connected)', 'Community Samples (connected)', 'Samples', 'DB (Legacy)', and 'Local Repository (LABSI-22)' which contains 'Connections (LABSI-22)', 'data (LABSI-22)', 'processes (LABSI-22)', 'Data_LamaBelajardanNilaiUjian (LABSI-22 - v1, 1)', and 'Data_PrediksiNilaiUjian (LABSI-22 - v1, 1)'.

b. Text View



Percobaan 2

- Buka MS Excel dan buat table data berikut. Lalu simpan dengan nama Tabel_PrediksiNilaiUjian.xlsx

Tabel_PrediksiNilaiUjian - Saved		
	A	B
1	NO_SISWA	NAMA
2	S-111	BUDI
3	S-112	SANTI
4	S-113	DIAN
5	S-114	DANI
6	S-115	AHMAD
7	S-116	BAYU
8	S-117	RISA
9	S-118	RANI
10	S-119	YANI
11	S-120	RATIH
12		
13		
14		
15		
16		
17		
18		
19		
20		

- Jalankan aplikasi RapidMiner
- Import file Tabel_PrediksiNilaiUjian.xlsx ke RapidMiner
- Ubah tipe data dan jenis masing-masing atribut sebagai berikut :
 - NO_SISWA : polynomial, id
 - NAMA : pilih Exclude Coloumn
 - LAMA_BELAJAR : integer

Import Data - Format your columns.

Format your columns.

Replace errors with missing values (i)

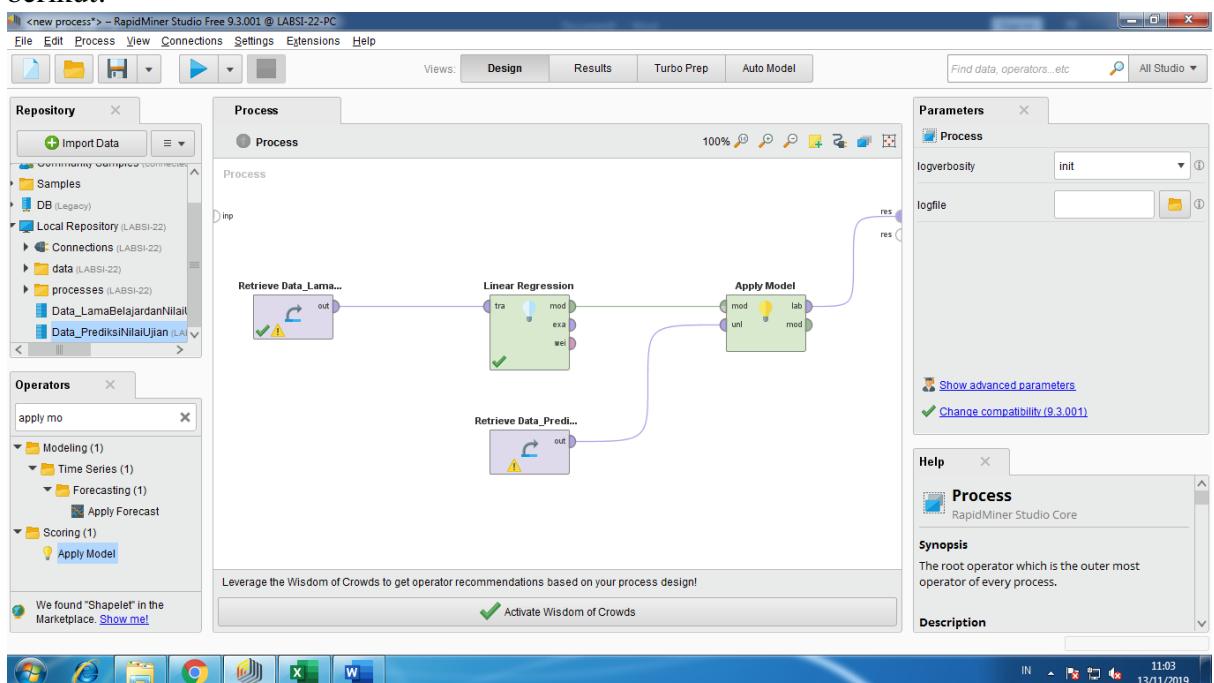
NO_SISWA <small>polynominal id</small>	NAMA <small>polynominal</small>	LAMA BELAJAR (JAM) <small>integer</small>
1 S-111	BUDI	12
2 S-112	SANTI	13
3 S-113	DIAN	14
4 S-114	DANI	11
5 S-115	AHMAD	5
6 S-116	BAYU	13
7 S-117	RISA	9
8 S-118	RANI	10
9 S-119	YANI	10
10 S-120	RATIH	9

no problems.

Previous Next Cancel

Kemudian klik Finish lalu simpan dengan nama Data_PrediksiNilaiUjian

- Masukkan Data_PrediksiNilaiUjian ke dalam area process. Kemudian cari operator Linear Regression dan Apply Model lalu hubungkan semuanya seperti gambar berikut.

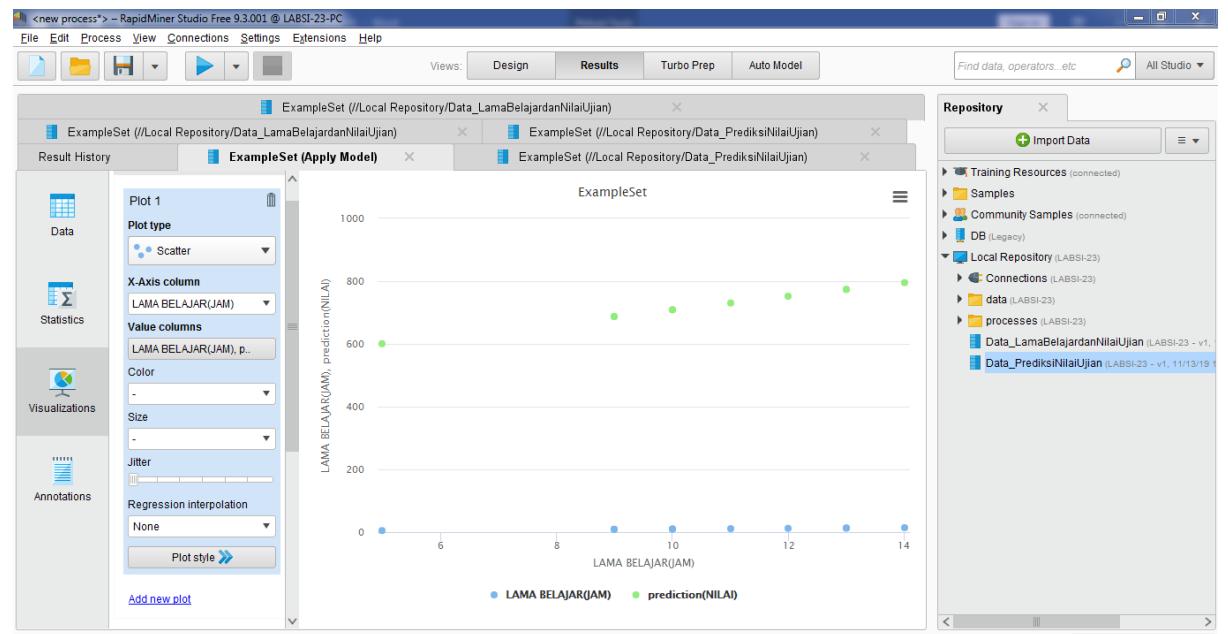


5. Klik operator Linear Regression, tentukan parameter min tolerance = 0.05 (batas toleransi sebesar 5%). Lalu klik F11 atau Run.
6. Hasil

a. Data View

Row No.	NO_SISWA	prediction(NILAI)	LAMA BELAJAR(JAM)
1	S-111	752.061	12
2	S-112	773.668	13
3	S-113	795.276	14
4	S-114	730.453	11
5	S-115	600.807	5
6	S-116	773.668	13
7	S-117	687.238	9
8	S-118	708.845	10
9	S-119	708.845	10
10	S-120	687.238	9

b. Charts View



Percobaan 3

Pada sel E3 masukkan formula $=21,608*C3+492,769$ maka akan keluar nilai dari Model Regresi seperti table berikut :

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Cut Copy Format Painter Clipboard Font Alignment Number Conditional Formats Cell Styles Insert Delete Format Cells Editing

E3 : =21,608*C3+492,769

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	NO_SISWA	NAMA	LAMA BELAJAR (JAM)	Prediction (NILAI)	Prediction (NILAI)											
2				Tabel	Model Regresi											
3	S-111	BUDI	12	752,061	752,065											
4	S-112	SANTI	13	773,668	773,673											
5	S-113	DIAN	14	795,276	795,281											
6	S-114	DANI	11	730,453	730,457											
7	S-115	AHMAD	5	600,807	600,809											
8	S-116	BAYU	13	773,668	773,673											
9	S-117	RISA	9	687,238	687,241											
10	S-118	RANI	10	708,845	708,849											
11	S-119	YANI	10	708,845	708,849											
12	S-120	RATIH	9	687,238	687,241											
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																

Sheet1 Ready Average: 721,8138 Count: 10 Sum: 7218,138 11:24 13/11/2019 100%

Nama : Tika Pratiwi

NIM : L200170046

Kelas : C

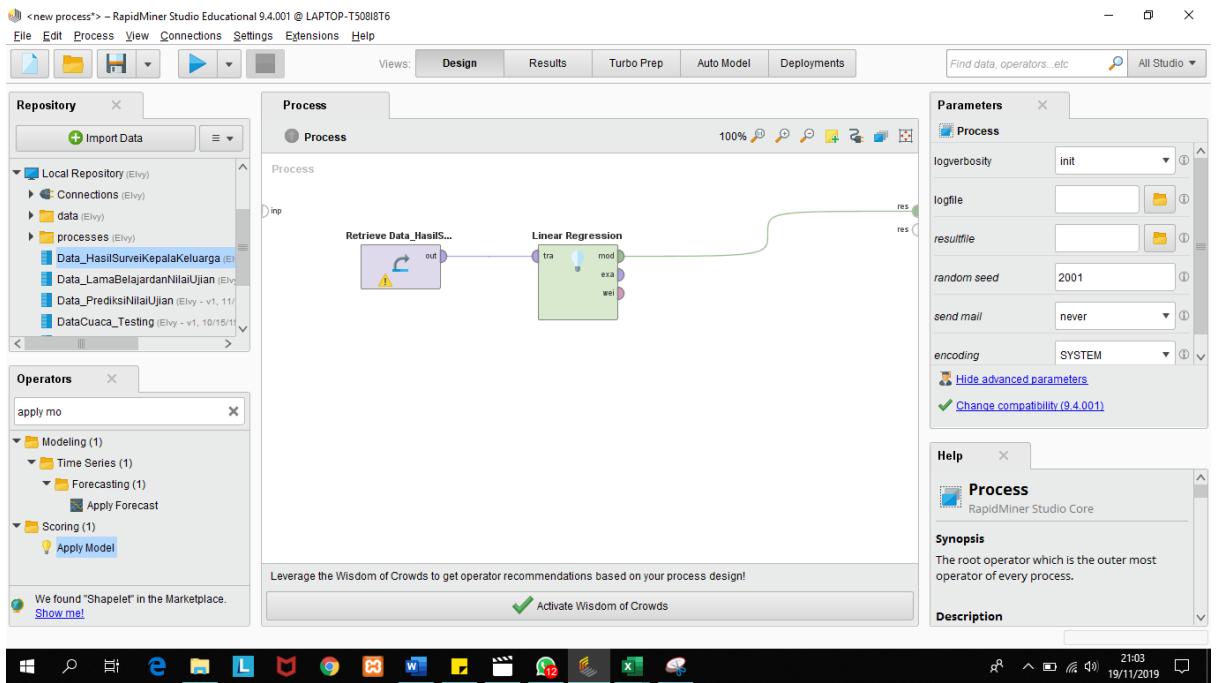
MODUL 12

Tugas

1. Buatlah table seperti table berikut ini :

	A	B	C	D
1	NO. RESPONDEN	PENDAPATAN (RUPIAH)	JUMLAH ANGGOTA KELUARGA	DAYA BELI (TABEL)
2	1	900.000	5	723933,263
3	2	800.000	3	554416,056
4	3	500.000	2	284902,556
5	4	1.900.000	6	1510760,476
6	5	600.000	2	358804,515
7	6	800.000	5	650031,304
8	7	1.000.000	6	845642,845
9	8	1.100.000	4	823929,557
10	9	1.000.000	4	750027,598
11	10	500.000	3	332710,179
12				
13				
14				

2. Buatlah proses regresi linier menggunakan rapidminer dengan ketentuan sebagai berikut :
 - a. Variable bebas (X) = Pendapatan (X1), Jumlah Anggota Keluarga (X2)
 - b. Variable terikat (Y) = Daya Beli
 - c. Toleransi yang digunakan = 5%



3. Tentukan apakah variable X1 dan X2 mempengaruhi secara signifikan terhadap nilai variable Y berdasarkan nilai t-stat?

The screenshot shows the RapidMiner Studio interface with the following components:

- Results View**: Displays the results of a Linear Regression analysis. The table shows coefficients for PENDAPATAN, JUMLAH ANGGOTA, and Intercept.
- Repository**: Shows the Local Repository with datasets like aaa, Data_HasilSurveiKepalaKeluarga, Data_LamaBelajardanNilaiUjian, Data_PrediksNilaiUjian, and DataCuaca_Testing.
- System Bar**: Shows the Windows taskbar with various application icons and the date/time (21:07 19/11/2019).

Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
PENDAPATAN	0.739	0.021	0.924	0.857	35.037	0.000	****
JUMLAH ANGGOTA	47807.624	7833.319	0.161	0.857	6.103	0.000	****
(Intercept)	-180222.487	36497.284	?	?	-4.938	0.000	****

t Table

cum. prob	t _{.50}	t _{.75}	t _{.80}	t _{.85}	t _{.90}	t _{.95}	t _{.975}	t _{.99}	t _{.995}	t _{.999}	t _{.9995}
one-tail	0.50	0.25	0.20	0.15	0.10	0.05	0.025	0.01	0.005	0.001	0.0005
two-tails	1.00	0.50	0.40	0.30	0.20	0.10	0.05	0.02	0.01	0.002	0.001
df											
1	0.000	1.000	1.376	1.963	3.078	6.314	12.71	31.82	63.66	318.31	636.62
2	0.000	0.816	1.061	1.386	1.886	2.920	4.303	6.965	9.925	22.327	31.599
3	0.000	0.765	0.978	1.250	1.638	2.353	3.182	4.541	5.841	10.215	12.924
4	0.000	0.741	0.941	1.190	1.533	2.132	2.776	3.747	4.604	7.173	8.610
5	0.000	0.727	0.920	1.156	1.476	2.015	2.571	3.365	4.032	5.893	6.869
6	0.000	0.718	0.906	1.134	1.440	1.943	2.447	3.143	3.707	5.208	5.959
7	0.000	0.711	0.896	1.119	1.415	1.895	2.365	2.998	3.499	4.785	5.408
8	0.000	0.706	0.889	1.108	1.397	1.860	2.306	2.896	3.355	4.501	5.041
9	0.000	0.703	0.883	1.100	1.383	1.833	2.262	2.821	3.250	4.297	4.781
10	0.000	0.700	0.879	1.093	1.372	1.812	2.228	2.764	3.169	4.144	4.587
11	0.000	0.697	0.876	1.088	1.363	1.796	2.201	2.718	3.106	4.025	4.437
12	0.000	0.695	0.873	1.083	1.356	1.782	2.179	2.681	3.055	3.930	4.318
13	0.000	0.694	0.870	1.079	1.350	1.771	2.160	2.650	3.012	3.852	4.221
14	0.000	0.692	0.868	1.076	1.345	1.761	2.145	2.624	2.977	3.787	4.140
15	0.000	0.691	0.866	1.074	1.341	1.753	2.131	2.602	2.947	3.733	4.073
16	0.000	0.690	0.865	1.071	1.337	1.746	2.120	2.583	2.921	3.686	4.015
17	0.000	0.689	0.863	1.069	1.333	1.740	2.110	2.567	2.898	3.646	3.965
18	0.000	0.688	0.862	1.067	1.330	1.734	2.101	2.552	2.878	3.610	3.922
19	0.000	0.688	0.861	1.066	1.328	1.729	2.093	2.539	2.861	3.579	3.883
20	0.000	0.687	0.860	1.064	1.325	1.725	2.086	2.528	2.845	3.552	3.850

Ya, karena nilai t-hitung1 = 35,057 > nilai t-stat = 2,131 dan nilai t-hitung2 = 6,103 > nilai t-stat = 2,131.

4. Tuliskan model persamaan regresi linier sederhana yang terbentuk!

The screenshot shows the RapidMiner Studio interface. In the center, there is a process titled "LinearRegression (Linear Regression)". The "Description" tab of this process displays the generated regression equation:
0.739 * PENDAPATAN (RUPIAH)
+ 47807.624 * JUMLAH ANGGOTA KELUARGA
- 180222.487

On the right side, there is a "Repository" panel which lists several items under "Local Repository": Training Resources, Samples, Community Samples, DB (Legacy), Local Repository (Evy), Connections (Evy), data (Evy), processes (Evy), and a list of specific files like aaa, Data_HasilSurveiKepalaKeluarga, Data_LamaBelajarJdNilaiUjian, Data_PrediksNilaiUjian, DataCuaca_Testing, DataCuaca_Training, DataSMA_Testing, DataSMA_Training, and SMA_Testing.

Persamaan :

$$0,739 \text{ * Pendapatan(rupiah)} + 47807,624 \text{ * Jumlah Anggota Keluarga} - 180222,487$$

5. Gunakan data testing untuk menjawab soal berikut :

Data testing :

NO. RESPONDEN	PENDAPATAN (RUPIAH)	JUMLAH ANGGOTA KELUARGA
1	900.000	5
2	800.000	3
3	500.000	2
4	1.900.000	6
5	600.000	2
6	800.000	5
7	1.000.000	6
8	1.100.000	4
9	1.000.000	4
10	500.000	3

- a. Lakukan prediksi Daya Beli (Y) menggunakan regresi linier dari hasil soal nomor 4!

The screenshot shows the RapidMiner Studio interface with the following details:

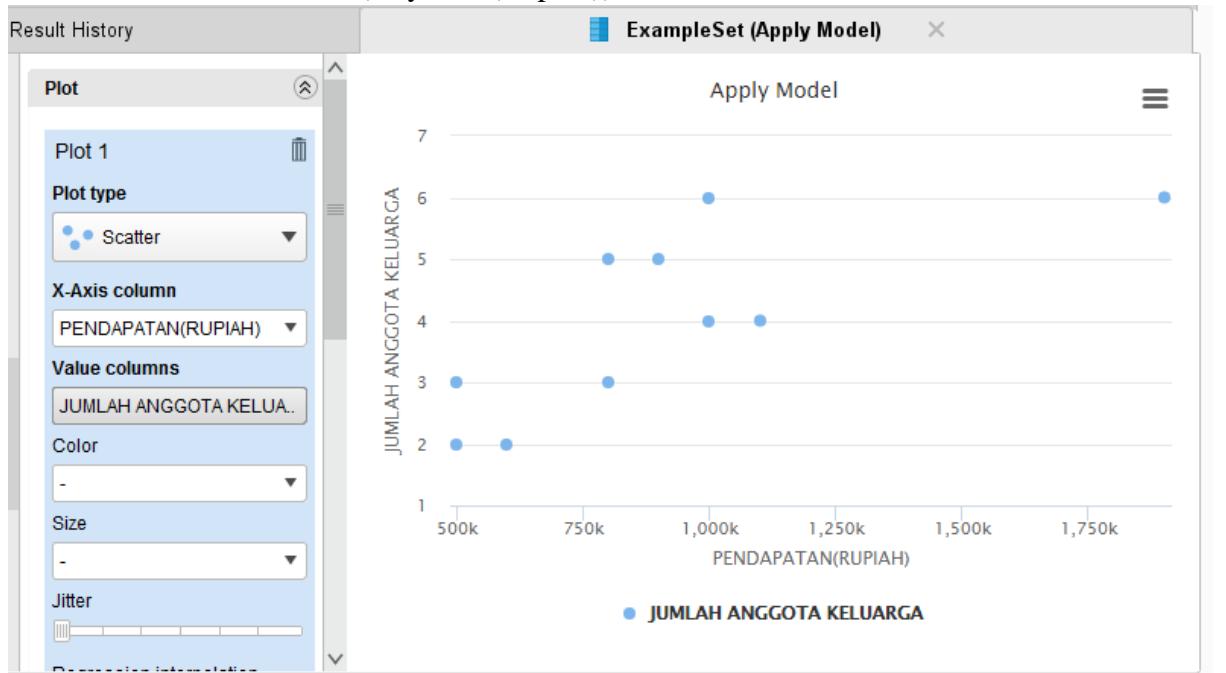
- Top Bar:** File, Edit, Process, View, Connections, Settings, Extensions, Help.
- Toolbar:** Includes icons for New, Open, Save, Run, Stop, and others.
- Views:** Design, Results, Turbo Prep, Auto Model, Deployments.
- Result History:** Shows three entries: ExampleSet (/Local Repository/Data_LamaBelajardanNilaiUjian), ExampleSet (/Local Repository/Data_PrediksiNilaiUjian), and ExampleSet (/Local Repository/aaa).
- Current Process:** LinearRegression (Linear Regression).
- Data View:** A table showing regression coefficients for attributes PENDAPATAN and JUMLAH ANGGOTA KELUARGA, along with intercept values and statistical parameters.
- Repository:** A sidebar listing training resources, samples, community samples, DB, connections, and processes. The 'processes' section lists several files including 'aaa', 'Data_HasilSurveiKepalaKeluarga', 'Data_LamaBelajardanNilaiUjian', 'Data_PrediksiNilaiUjian', 'DataCuaca_Testing', 'DataCuaca_Training', 'DataSMA_Testing', 'DataSMA_Training', and 'SMA_Testing'.
- System Status:** Shows system icons like taskbar, battery, and network.
- Bottom Bar:** Date and time (21:11, 19/11/2019).

Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
PENDAPATAN (...)	0.739	0.021	0.924	0.857	35.037	0.000	****
JUMLAH ANGGO...	47807.624	7833.319	0.161	0.857	6.103	0.000	****
(Intercept)	-180222.487	36497.284	?	?	-4.938	0.000	****

- b. Lakukan prediksi Daya Beli (Y) menggunakan rapidminer!

6. Gambarkan pola sebaran data menggunakan plot view (Scatter) dengan ketentuan sebagai berikut :

- x-Axis = Pendapatan(rupiah)
y-Axis = Prediction(Daya Beli(rupiah))
color coloumn = Prediction(DayaBeli(Rupiah))



- x-Axis = Jumlah Anggota Keluarga
y-Axis = Prediction(Daya Beli(rupiah))
color coloumn = Prediction(DayaBeli(Rupiah))

