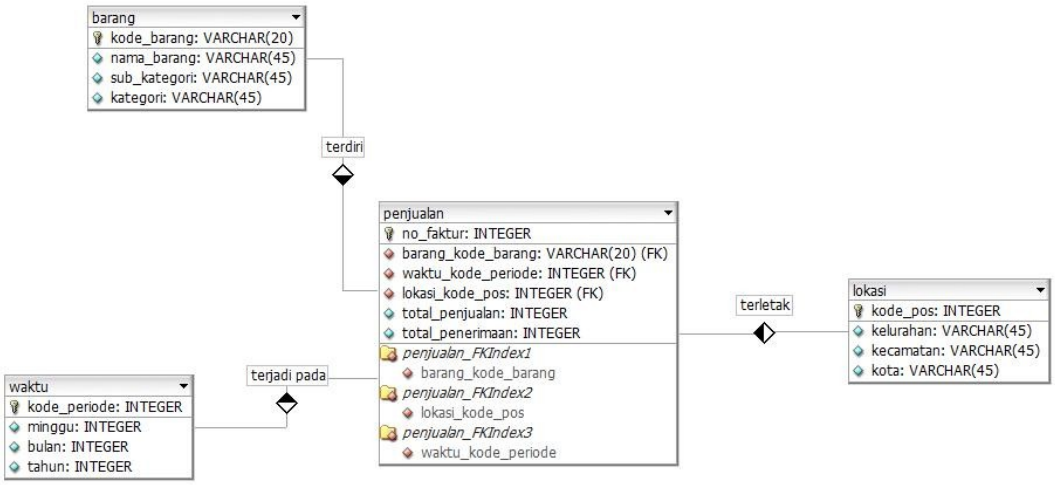
Nama : Avifah Hasna Nur Fadila

NIM : L200170072

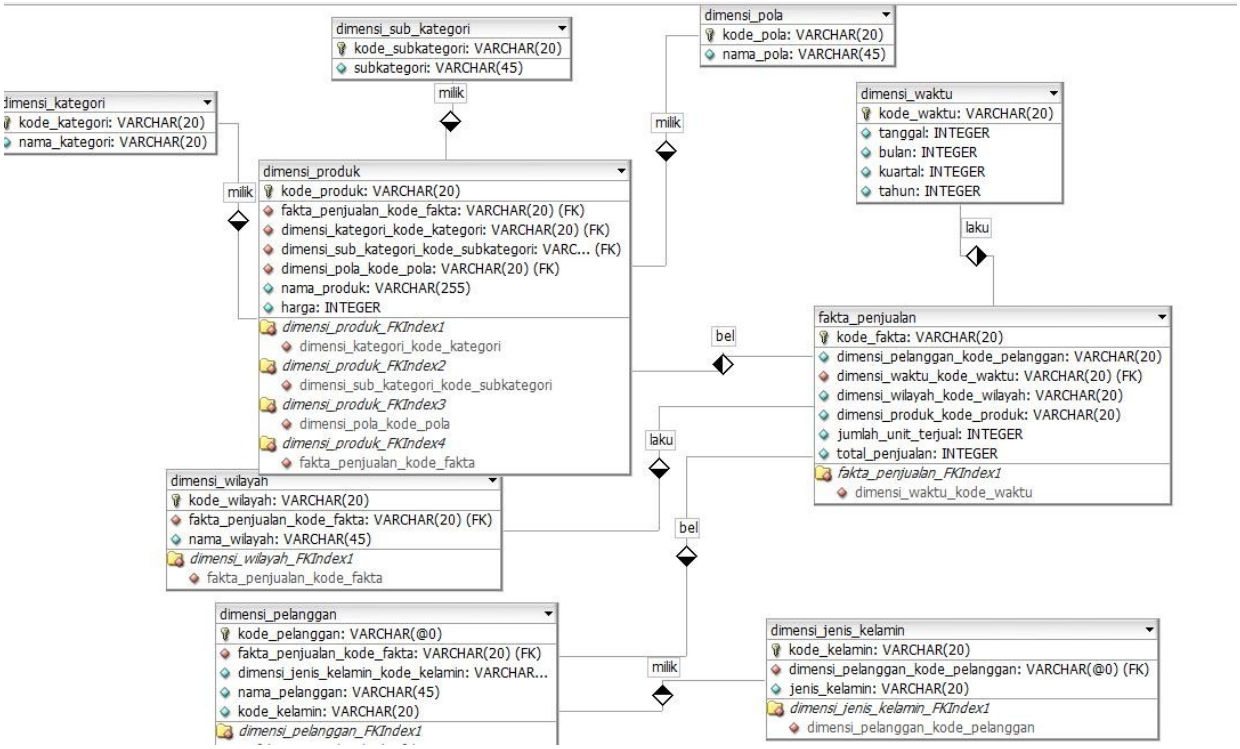
Kelas : C

Modul 1

Percobaan



tugas



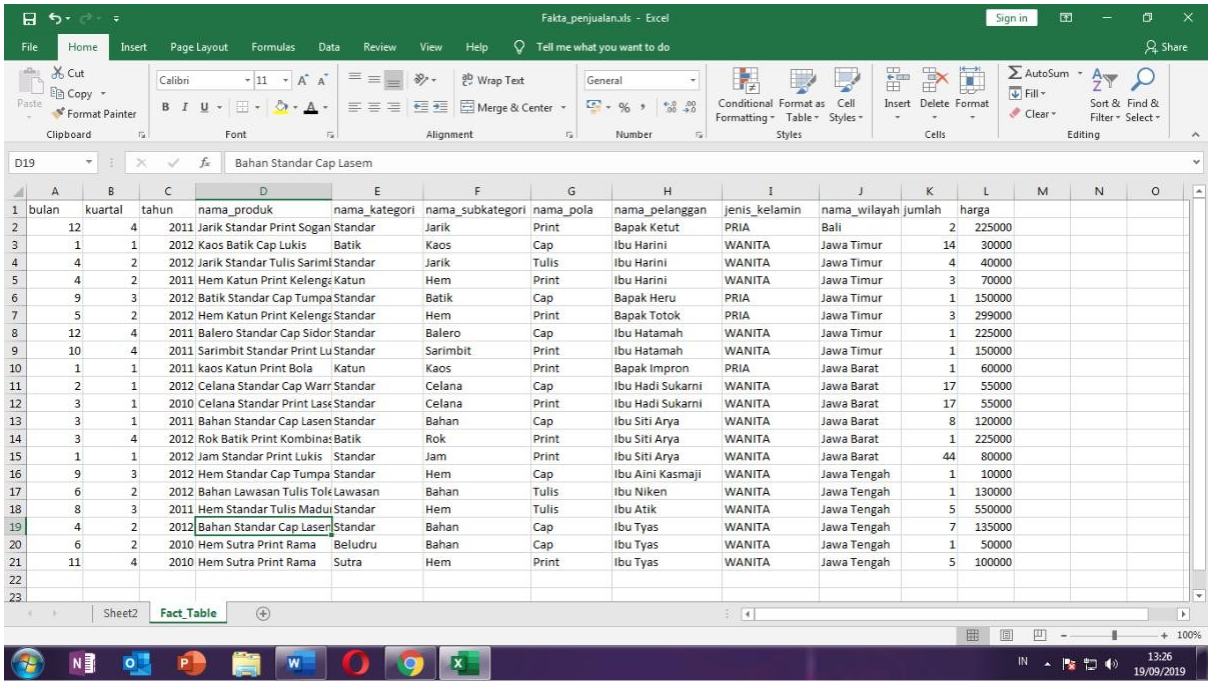
MODUL 5

D. Langkah-langkah Praktikum

D.1. Kegiatan 1: Membuat Pivot Table

Gunakan file dengan nama “Fakta_Penjualan.xls” hasil tugas Modul 4 soal nomor 2. Jika memungkinkan simpan file tersebut dengan format excel 2007 ke atas (*.xlsx).

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

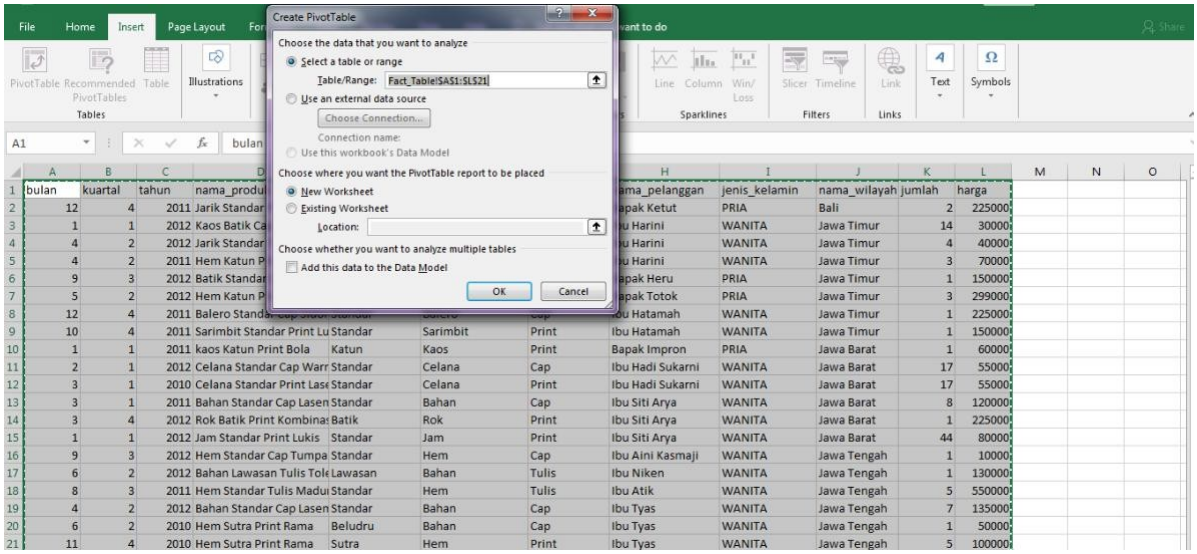


	A	B	C	D	E	F	G	H	I	J	K	L
1	bulan	kuartal	tahun	nama_produk	nama_kategori	nama_subkategori	nama_pola	nama_pelanggan	jenis_kelamin	nama_wilayah	jumlah	harga
2	12	4	2011	Jarik Standar Print Sogan	Standar	Jarik	Print	Bapak Ketut	PRIA	Bali	2	225000
3	1	1	2012	Kaos Batik Cap Lukis	Batik	Kaos	Cap	Ibu Harini	WANITA	Jawa Timur	14	30000
4	4	2	2012	Jarik Standar Tulis Sarimb	Standar	Jarik	Tulis	Ibu Harini	WANITA	Jawa Timur	4	40000
5	4	2	2011	Hem Katun Print Kelenga	Katun	Hem	Print	Ibu Harini	WANITA	Jawa Timur	3	70000
6	9	3	2012	Batik Standar Cap Tumpa	Standar	Batik	Cap	Bapak Heru	PRIA	Jawa Timur	1	150000
7	5	2	2012	Hem Katun Print Kelenga	Standar	Hem	Print	Bapak Totok	PRIA	Jawa Timur	3	299000
8	12	4	2011	Balero Standar Cap Sidor	Standar	Balero	Cap	Ibu Hatamah	WANITA	Jawa Timur	1	225000
9	10	4	2011	Sarimbit Standar Print Lu	Standar	Sarimbit	Print	Ibu Hatamah	WANITA	Jawa Timur	1	150000
10	1	1	2011	kaos Katun Print Bola	Katun	Kaos	Print	Bapak Impron	PRIA	Jawa Barat	1	60000
11	2	1	2012	Celana Standar Cap Warr	Standar	Celana	Cap	Ibu Hadi Sukarni	WANITA	Jawa Barat	17	55000
12	3	1	2010	Celana Standar Print Lase	Standar	Celana	Print	Ibu Hadi Sukarni	WANITA	Jawa Barat	17	55000
13	3	1	2011	Bahan Standar Cap Lasen	Standar	Bahan	Cap	Ibu Siti Arya	WANITA	Jawa Barat	8	120000
14	3	4	2012	Rok Batik Print Kombinas	Batik	Rok	Print	Ibu Siti Arya	WANITA	Jawa Barat	1	225000
15	1	1	2012	Jam Standar Print Lukis	Standar	Jam	Print	Ibu Siti Arya	WANITA	Jawa Barat	44	80000
16	9	3	2012	Hem Standar Cap Tumpa	Standar	Hem	Cap	Ibu Aini Kasmaji	WANITA	Jawa Tengah	1	10000
17	6	2	2012	Bahan Lawasan Tulis Tole	Lawasan	Bahan	Tulis	Ibu Niken	WANITA	Jawa Tengah	1	130000
18	8	3	2011	Hem Standar Tulis Madu	Standar	Hem	Tulis	Ibu Atik	WANITA	Jawa Tengah	5	550000
19	4	2	2012	Bahan Standar Cap Lasen	Standar	Bahan	Cap	Ibu Tyas	WANITA	Jawa Tengah	7	135000
20	6	2	2010	Hem Sutra Print Rama	Beludru	Bahan	Cap	Ibu Tyas	WANITA	Jawa Tengah	1	50000
21	11	4	2010	Hem Sutra Print Rama	Sutra	Hem	Print	Ibu Tyas	WANITA	Jawa Tengah	5	100000
22												
23												

Pilih range data A1:L21 atau tekan tombol CTRL + SHIFT + *.

Klik tab Insert pada Ribbon, pilih menu PivotTable | Insert PivotTable.

Pada dialog Create PivotTable yang muncul, pilih New Worksheet, klik tombol OK.



Cobalah berbagai kombinasi penempatan field dalam kotak area tersebut.

Susunlah layout field dengan urutan berikut :

Field nama_kategori ke kotak Row Labels.

b) Field tahun ke kotak Column Labels.

c) Field jumlah ke kotak Values.

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

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

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

D.2. Kegiatan 2 : Menambahkan Tipe Summary Baru

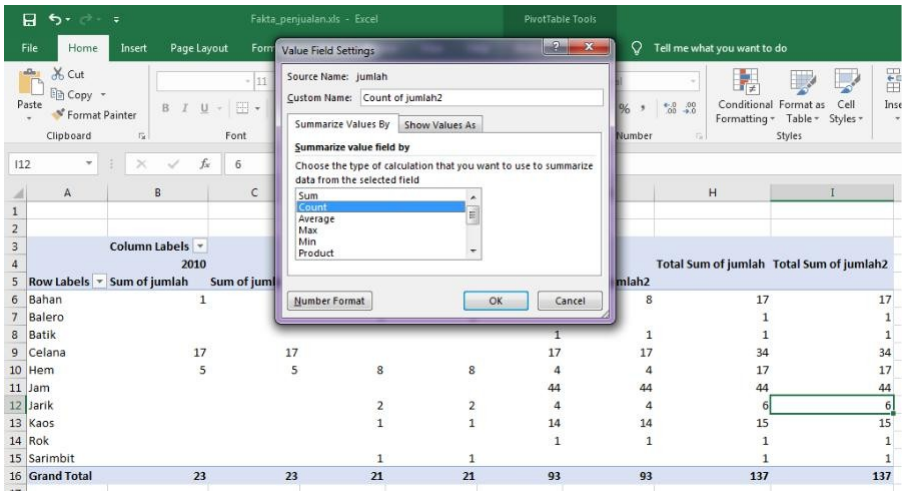
Masih bekerja menggunakan file “Fakta_Penjualan.xls” pada kegiatan 1 dengan Sheet1 PivotTable.

Tambahkan field jumlah kembali ke kotak Value dengan cara klik dan drag, sehingga muncul field baru dengan nama Sum of jumlah2.

	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	8	17	17
Balero			1	1			1	1
Batik					1	1	1	1
Celana	17	17			17	17	34	34
Hem	5	5	8	8	4	4	17	17
Jam					44	44	44	44
Jarik			2	2	4	4	6	6
Kaos			1	1	14	14	15	15
Rok					1	1	1	1
Sarimbit			1	1			1	1
Grand Total	**23**	**23**	**21**	**21**	**93**	**93**	**137**	**137**

Kembali ke area Values, dan klik tombol panah ke bawah pada field Sum of jumlah2. Pilih item Value Field Settings.

Pada dialog Value Field Settings, ubah Sum menjadi Count. Perhatikan nama field akan berubah menjadi Count of jumlah2.



Klik tombol OK.

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 Count of jumlah2
Row Labels	Sum of jumlah	Count of jumlah2	Sum of jumlah	Count of jumlah2	Sum of jumlah	Count of jumlah2		
Bahan	1	1	8	1	8	2	17	4
Balero			1	1			1	1
Batik					1	1	1	1
Celana	17	1			17	1	34	2
Hem	5	1	8	2	4	2	17	5
Jam					44	1	44	1
Jarik			2	1	4	1	6	2
Kaos			1	1	14	1	15	2
Rok					1	1	1	1
Sarimbit			1	1			1	1
Grand Total	**23**	**3**	**21**	**7**	**93**	**10**	**137**	

Count of jumlah2

D.3. Kegiatan 3 : Calculated Field dan Calculated Item di Pivot Table

Calculated Field

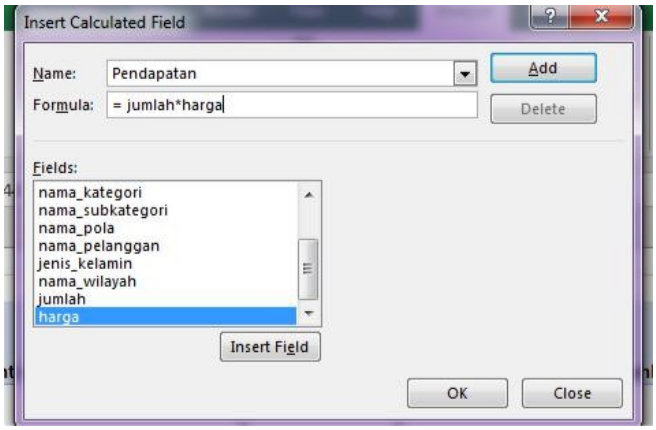
Pada menu ribbon PivotTable Tools | Options, klik button Formulas dan pilih Calculated Field.

Pada kotak dialog Insert Calculated Field yang muncul, masukkan nilai berikut kemudian klik tombol OK.

Name : Pendapatan

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.

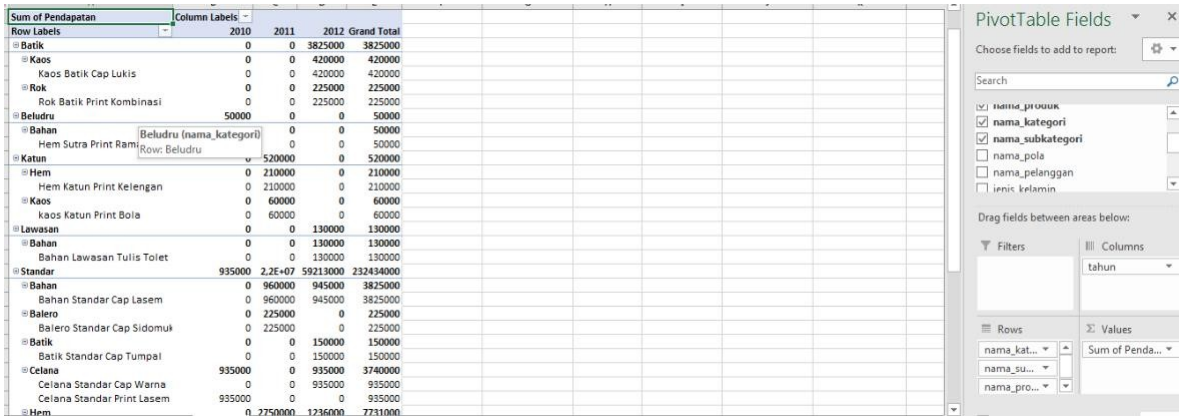
	2011			2012				
Sum of Pendapatan	Sum of jumlah	Count of jumlah2	Sum of Pendapatan	Sum of jumlah	Count of jumlah2	Sum of Pendapatan	Total Sum of jumlah	Total Count of jum
50000	8	1	960000	8	2	2120000	17	
0	1	1	225000			0	1	
0			0	1	1	150000	1	
935000			0	17	1	935000	34	
500000	8	2	4960000	4	2	1236000	17	
0			0	44	1	3520000	44	
0	2	1	450000	4	1	160000	6	
0	1	1	60000	14	1	420000	15	
0			0	1	1	225000	1	
0	1	1	150000			0	1	
4715000	**21**	**7**	**29400000**	**93**	**10**	**107322000**	**137**	

D.4. Kegiatan 4 : Operasi Roll Up dan Drill Down

Pada Column Labels akan ditampilkan data berdasarkan urutan tahun, kuartal, dan bulan. Beri tanda cek pada field tersebut (drag and drop) dan letakkan pada kotak Column Labels.

Lihat kembali pada cube setelah ditambahkan field-field untuk operasi roll up dan drill down.

Pada masing-masing Row Labels dan Column Labels telah bertambah field-field yang bisa diperinci dan diringkas sesuai urutan kategori data yang lebih spesifik.



Sum of Pendapatan	Column Labels			
Row Labels	2010	2011	2012	Grand Total
Batik	0	0	3825000	3825000
Kaos	0	0	420000	420000
Kaos Batik Cap Lukis	0	0	420000	420000
Rok	0	0	225000	225000
Rok Batik Print Kombinasi	0	0	225000	225000
Beludru	50000	0	0	50000
Bahan	0	0	0	50000
Hem Sutra Print Ram	0	0	0	50000
Katun	0	520000	0	520000
Hem	0	210000	0	210000
Hem Katun Print Kelengan	0	210000	0	210000
Kaos	0	60000	0	60000
kaos Katun Print Bola	0	60000	0	60000
Lawasan	0	0	130000	130000
Bahan	0	0	130000	130000
Bahan Lawasan Tulis Tolet	0	0	130000	130000
Standar	935000	2,2E+07	5921300	232434000
Bahan	0	960000	945000	3825000
Bahan Standar Cap Lasem	0	960000	945000	3825000
Balero	0	225000	0	225000
Balero Standar Cap Sidomuk	0	225000	0	225000
Batik	0	0	150000	150000
Batik Standar Cap Tumpal	0	0	150000	150000
Celana	935000	0	935000	3740000
Celana Standar Cap Warna	0	0	935000	935000
Celana Standar Print Lasem	935000	0	0	935000
Hem	0	2750000	1236000	7731000

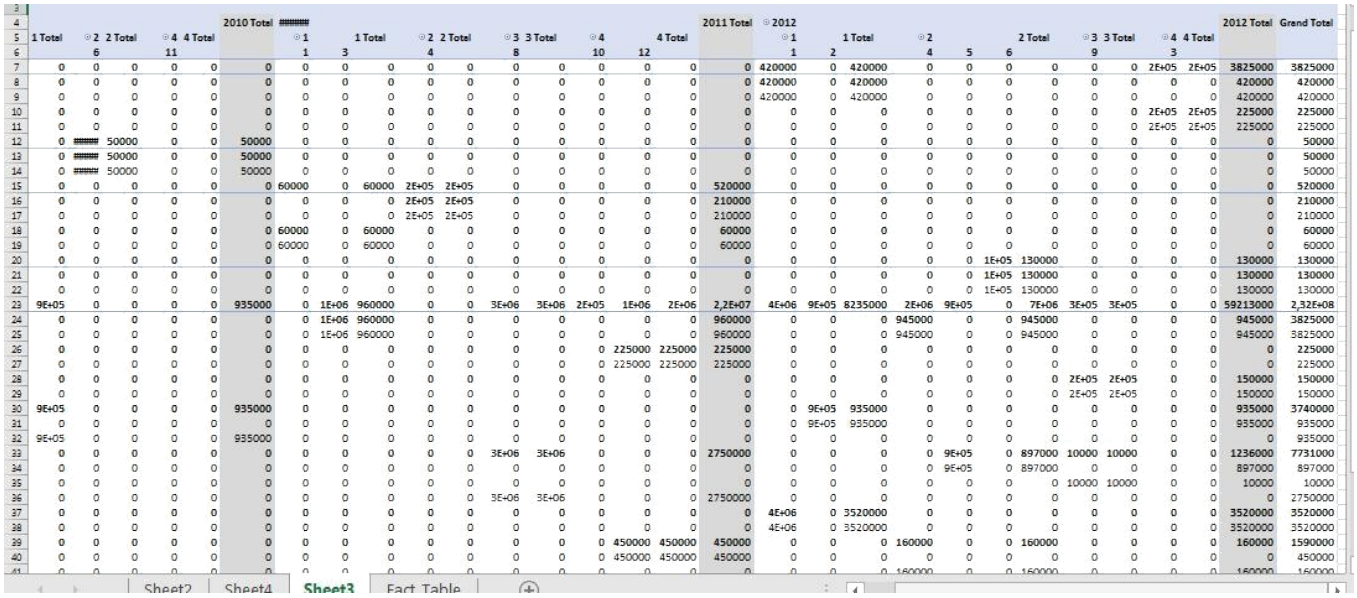
Beludru (nama_kategori)
Row: Beludru

PivotTable Fields
Choose fields to add to report:
Search
nama_produk
nama_kategori
nama_subkategori
nama_pola
nama_pelanggan
jenis_kelamin
Drag fields between areas below:
Filters
Columns
tahun
Rows
Values
nama_kat...
nama_su...
nama_pro...
Sum of Penda...

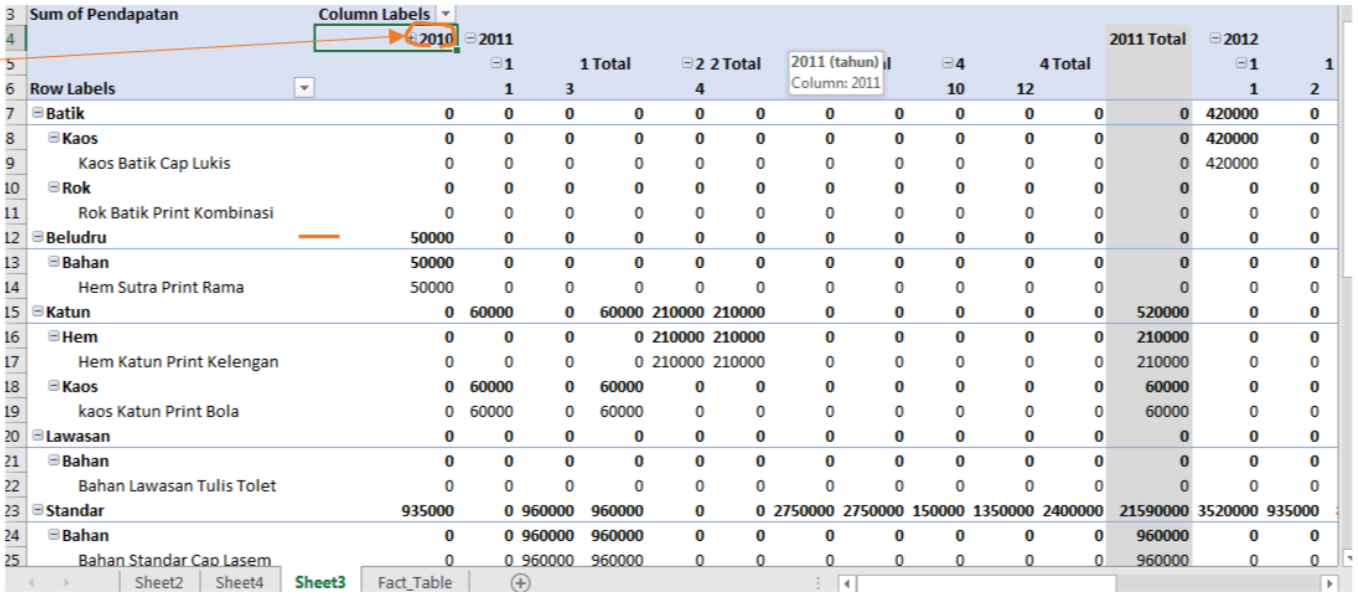
Klik tanda untuk melakukan operasi Roll Up dan klik tanda untuk

melakukan operasi Drill Down.

2010							2011											2012		
1	1 Total	2	2 Total	4	4 Total	2010 Total	1		1 Total	2	2 Total	3	3 Total	4		4 Total	2011 Total	1		1 Total
3		6		11			1	3		4		8		10	12			1	2	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420000	0	4200
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420000	0	4200
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420000	0	4200
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	50000	50000	0	0	50000	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	50000	50000	0	0	50000	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	50000	50000	0	0	50000	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	60000	0	60000	210000	210000	0	0	0	0	0	520000	0	0	
0	0	0	0	0	0	0	0	0	0	210000	210000	0	0	0	0	0	210000	0	0	
0	0	0	0	0	0	0	0	0	0	210000	210000	0	0	0	0	0	210000	0	0	
0	0	0	0	0	0	0	60000	0	60000	0	0	0	0	0	0	0	60000	0	0	
0	0	0	0	0	0	0	60000	0	60000	0	0	0	0	0	0	0	60000	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5000	935000	0	0	0	0	935000	0	960000	960000	0	0	2750000	2750000	150000	1350000	2400000	21590000	3520000	935000	8235
0	0	0	0	0	0	0	0	960000	960000	0	0	0	0	0	0	0	960000	0	0	
0	0	0	0	0	0	0	0	960000	960000	0	0	0	0	0	0	0	960000	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	225000	225000	225000	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	225000	225000	225000	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5000	935000	0	0	0	0	935000	0	0	0	0	0	0	0	0	0	0	0	0	935000	9350
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	935000	9350
5000	935000	0	0	0	0	935000	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	2750000	2750000	0	0	0	2750000	0	0	

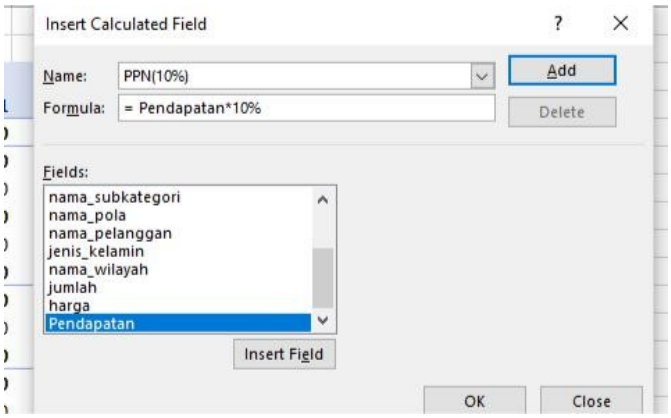


Roll Up

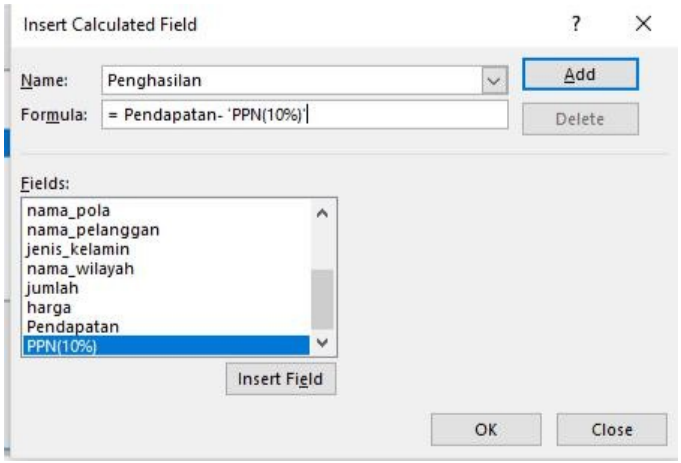


E. Tugas

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.



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

a. Pivot Table

-2010

	Column Labels					
	2010			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			
⊟Beludru	50000	5000	45000	50000	5000	45000
⊟Bahan	50000	5000	45000	50000	5000	45000
Hem Sutra Print Rama	50000	5000	45000	50000	5000	45000
⊟Standar	935000	93500	841500	935000	93500	841500
⊟Celana	935000	93500	841500	935000	93500	841500
Celana Standar Print Lasem	935000	93500	841500	935000	93500	841500
⊟Sutra	500000	50000	450000	500000	50000	450000
⊟Hem	500000	50000	450000	500000	50000	450000
Hem Sutra Print Rama	500000	50000	450000	500000	50000	450000
Grand Total	4715000	471500	4243500	4715000	471500	4243500

-2011

Column Labels	2011			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			
Katun	**520000**	**52000**	**468000**	**520000**	**52000**	**468000**
Hem	**210000**	**21000**	**189000**	**210000**	**21000**	**189000**
Hem Katun Print Kelengan	210000	21000	189000	210000	21000	189000
Kaos	**60000**	**6000**	**54000**	**60000**	**6000**	**54000**
kaos Katun Print Bola	60000	6000	54000	60000	6000	54000
Standar	**21590000**	**2159000**	**19431000**	**21590000**	**2159000**	**19431000**
Bahan	**960000**	**96000**	**864000**	**960000**	**96000**	**864000**
Bahan Standar Cap Lasem	960000	96000	864000	960000	96000	864000
Balero	**225000**	**22500**	**202500**	**225000**	**22500**	**202500**
Balero Standar Cap Sidomukti	225000	22500	202500	225000	22500	202500
Hem	**2750000**	**275000**	**2475000**	**2750000**	**275000**	**2475000**
Hem Standar Tulis Madura	2750000	275000	2475000	2750000	275000	2475000
Jarik	**450000**	**45000**	**405000**	**450000**	**45000**	**405000**
Jarik Standar Print Sogan	450000	45000	405000	450000	45000	405000
Sarimbit	**150000**	**15000**	**135000**	**150000**	**15000**	**135000**
Sarimbit Standar Print Lukis	150000	15000	135000	150000	15000	135000
Grand Total	**29400000**	**2940000**	**26460000**	**29400000**	**2940000**	**26460000**

Sum of PPN(10%)

-2012

	Column Labels	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				
Batik	**3825000**	**382500**	**3442500**	**3825000**	**382500**	**3442500**
Lawasan	**130000**	**13000**	**117000**	**130000**	**13000**	**117000**
Bahan	**130000**	**13000**	**117000**	**130000**	**13000**	**117000**
Bahan Lawasan Tulis Tolet	130000	13000	117000	130000	13000	117000
Standar	**59213000**	**5921300**	**53291700**	**59213000**	**5921300**	**53291700**
Bahan	**945000**	**94500**	**850500**	**945000**	**94500**	**850500**
Bahan Standar Cap Lasem	945000	94500	850500	945000	94500	850500
Batik	**150000**	**15000**	**135000**	**150000**	**15000**	**135000**
Batik Standar Cap Tumpal	150000	15000	135000	150000	15000	135000
Celana	**935000**	**93500**	**841500**	**935000**	**93500**	**841500**
Celana Standar Cap Warna	935000	93500	841500	935000	93500	841500
Hem	**1236000**	**123600**	**1112400**	**1236000**	**123600**	**1112400**
Hem Katun Print Kelengan	897000	89700	807300	897000	89700	807300
Hem Standar Cap Tumpal	10000	1000	9000		1000	9000
Jam	**3520000**	**352000**	**3168000**		**2000**	**3168000**
Jam Standar Print Lukis	3520000	352000	3168000		2000	3168000
Jarik	**160000**	**16000**	**144000**		**6000**	**144000**
Jarik Standar Tulis Sarimbit	160000	16000	144000	160000	16000	144000
Grand Total	**107322000**	**10732200**	**96589800**	**107322000**	**10732200**	**96589800**

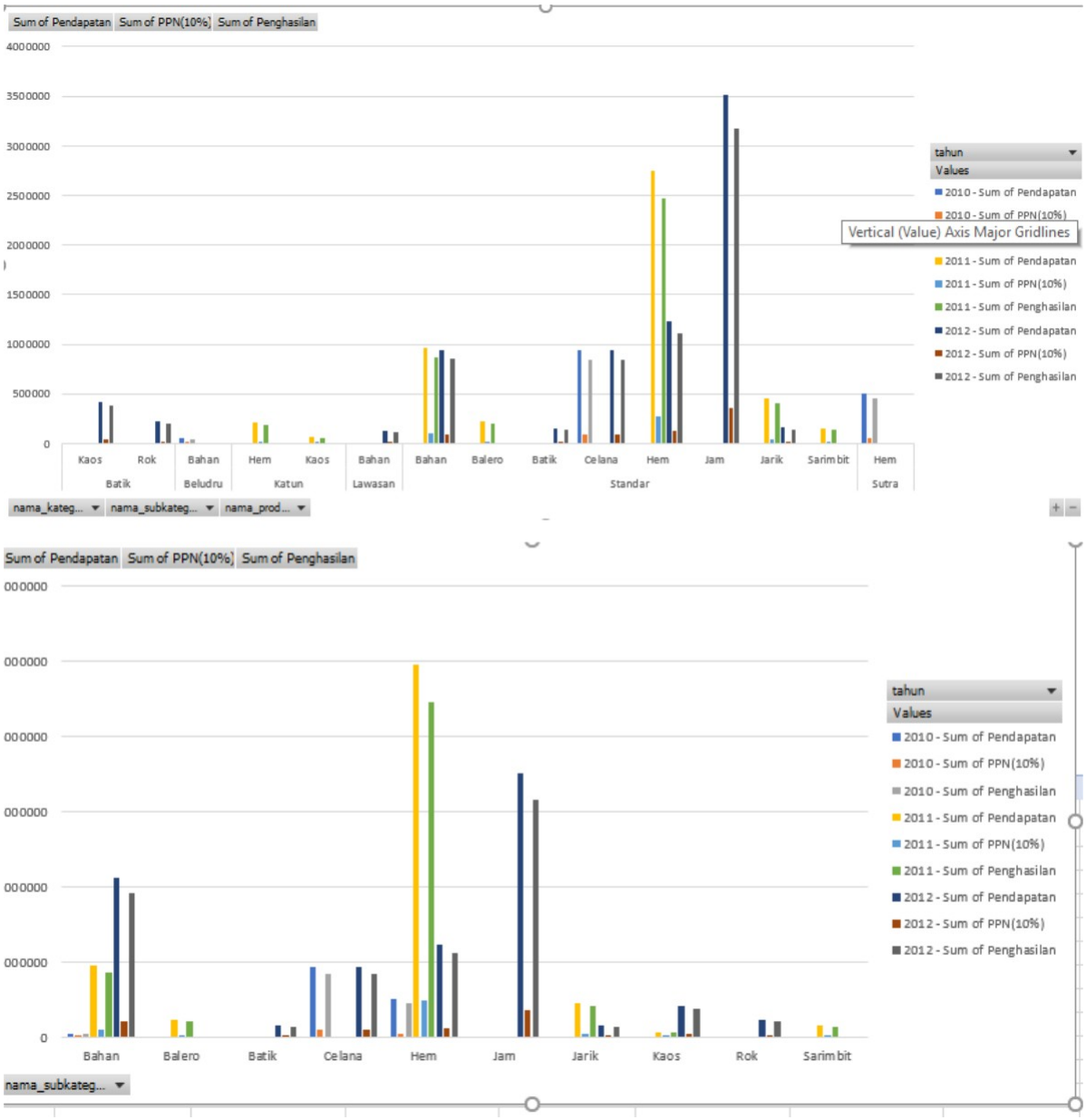
Sum of Pendapatan
Value: 897000
Row: Standar - Hem - Hem Katun Print Kelengan
Column: Total Sum of Pendapatan

-ALL 2010-2012

	Column Labels	2010			2011			2012			Total Sum of Pendapatan
ow 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	
Batik	**0**	**0**	**0**	**0**	**0**	**0**	**3825000**	**382500**	**3442500**	**3825000**
Beludru	**50000**	**5000**	**45000**	**0**	**0**	**0**	**0**	**0**	**0**	**50000**
Bahan	**50000**	**5000**	**45000**	**0**	**0**	**0**	**0**	**0**	**0**	**50000**
Hem Sutra Print Rama	50000	5000	45000	0	0	0	0	0	0	50000
Katun	**0**	**0**	**0**	**520000**	**52000**	**468000**	**0**	**0**	**0**	**520000**
Hem	**0**	**0**	**0**	**210000**	**21000**	**189000**	**0**	**0**	**0**	**210000**
Hem Katun Print Kelengan	0	0	0	210000	21000	189000	0	0	0	210000
Kaos	**0**	**0**	**0**	**60000**	**6000**	**54000**	**0**	**0**	**0**	**60000**
kaos Katun Print Bola	0	0	0	60000	6000	54000	0	0	0	60000
Lawasan	**0**	**0**	**0**	**0**	**0**	**0**	**130000**	**13000**	**117000**	**130000**
Bahan	**0**	**0**	**0**	**0**	**0**	**0**	**130000**	**13000**	**117000**	**130000**
Bahan Lawasan Tulis Tolet	0	0	0	0	0	0	130000	13000	117000	130000
Standar	**935000**	**93500**	**841500**	**21590000**	**2159000**	**19431000**	**59213000**	**5921300**	**53291700**	**232434000**
Bahan	**0**	**0**	**0**	**960000**	**96000**	**864000**	**945000**	**94500**	**850500**	**3825000**
Bahan Standar Cap Lasem	0	0	0	960000	96000	864000	945000	94500	850500	3825000
Balero	**0**	**0**	**0**	**225000**	**22500**	**202500**	**0**	**0**	**0**	**225000**
Balero Standar Cap Sidomukti	0	0	0	225000	22500	202500	0	0	0	225000
Batik	**0**	**0**	**0**	**0**	**0**	**0**	**150000**	**15000**	**135000**	**150000**
Batik Standar Cap Tumpal	0	0	0	0	0	0	150000	15000	135000	150000
Celana	**935000**	**93500**	**841500**	**0**	**0**	**0**	**935000**	**93500**	**841500**	**3740000**
Celana Standar Cap Warna	0	0	0	0	0	0	935000	93500	841500	935000
Celana Standar Print Lasem	935000	93500	841500	0	0	0	0	0	0	935000
Hem	**0**	**0**	**0**	**2750000**	**275000**	**2475000**	**1236000**	**123600**	**1112400**	**7731000**
Hem Katun Print Kelengan	0	0	0	0	0	0	897000	89700	807300	897000
Hem Standar Cap Tumpal	0	0	0	0	0	0	10000	1000	9000	10000
Hem Standar Tulis Madura	0	0	0	2750000	275000	2475000	0	0	0	2750000
Jam	**0**	**0**	**0**	**0**	**0**	**0**	**3520000**	**352000**	**3168000**	**3520000**
Jam Standar Print Lukis	0	0	0	0	0	0	3520000	352000	3168000	3520000
Jarik	**0**	**0**	**0**	**450000**	**45000**	**405000**	**160000**	**16000**	**144000**	**1590000**
Jarik Standar Print Sogan	0	0	0	450000	45000	405000	0	0	0	450000

b. Pivot Table

-2010-2012



Berdasarkan subkategori maka produk tertinggi adalah **HEM**

MODUL 6

TUGAS

1.

	A	B	C	D	E	F
1	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_SKS	Asisten	Lama_Studi
2	IPS	WANITA	SURAKARTA	18	TIDAK	TERLAMBAT
3	IPA	PRIA	SURAKARTA	19	YA	TEPAT
4	LAIN	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT
5	IPA	PRIA	LUAR	17	TIDAK	TERLAMBAT
6	IPA	WANITA	SURAKARTA	17	TIDAK	TEPAT
7	IPA	WANITA	LUAR	18	YA	TEPAT
8	IPA	PRIA	SURAKARTA	18	TIDAK	TERLAMBAT
9	IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT
10	IPS	PRIA	LUAR	18	TIDAK	TERLAMBAT
11	LAIN	WANITA	SURAKARTA	18	TIDAK	TEPAT
12	IPA	WANITA	SURAKARTA	19	TIDAK	TEPAT
13	IPS	PRIA	SURAKARTA	20	TIDAK	TEPAT
14	IPS	PRIA	SURAKARTA	19	TIDAK	TEPAT
15	IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT
16	IPA	PRIA	LUAR	22	YA	TEPAT
17	LAIN	PRIA	SURAKARTA	16	TIDAK	TERLAMBAT
18	IPS	PRIA	LUAR	20	TIDAK	TEPAT
19	LAIN	PRIA	LUAR	23	YA	TEPAT
20	IPA	PRIA	SURAKARTA	21	YA	TEPAT
21	IPS	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT

a. LAIN =COUNTIF(A2:A21;"LAIN")

IPA =COUNTIF(A2:A21;"IPA")

IPS =COUNTIF(A2:A21;"IPS")

LAIN	4
IPA	10
IPS	6

b. TEPAT =COUNTIF(F2:F21;"TEPAT")

TERLAMBAT=COUNTIF(F2:F21;"TERLAMBAT")

c. MAX =MAX(D2:D21)

MIN =MIN(D2:D21)

MEAN =AVERAGE(D2:D21)

STANDAR DEVIASI =STDEV.S(D2:D21)

max rerata SKS	23
MIN RERATA SKS	16
MEAN RERATA SKS	18,95
STANDAR DEVIASI	1,66938375

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

D	3

MODUL 7

PERCOBAAN

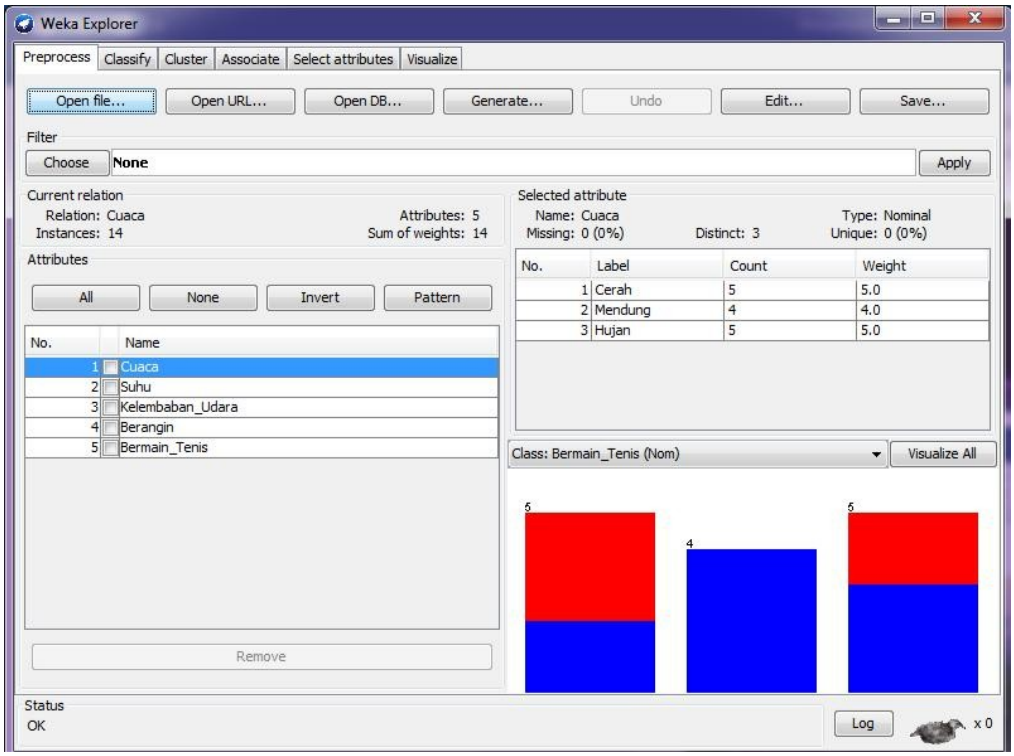
-Data

Cuaca.arff

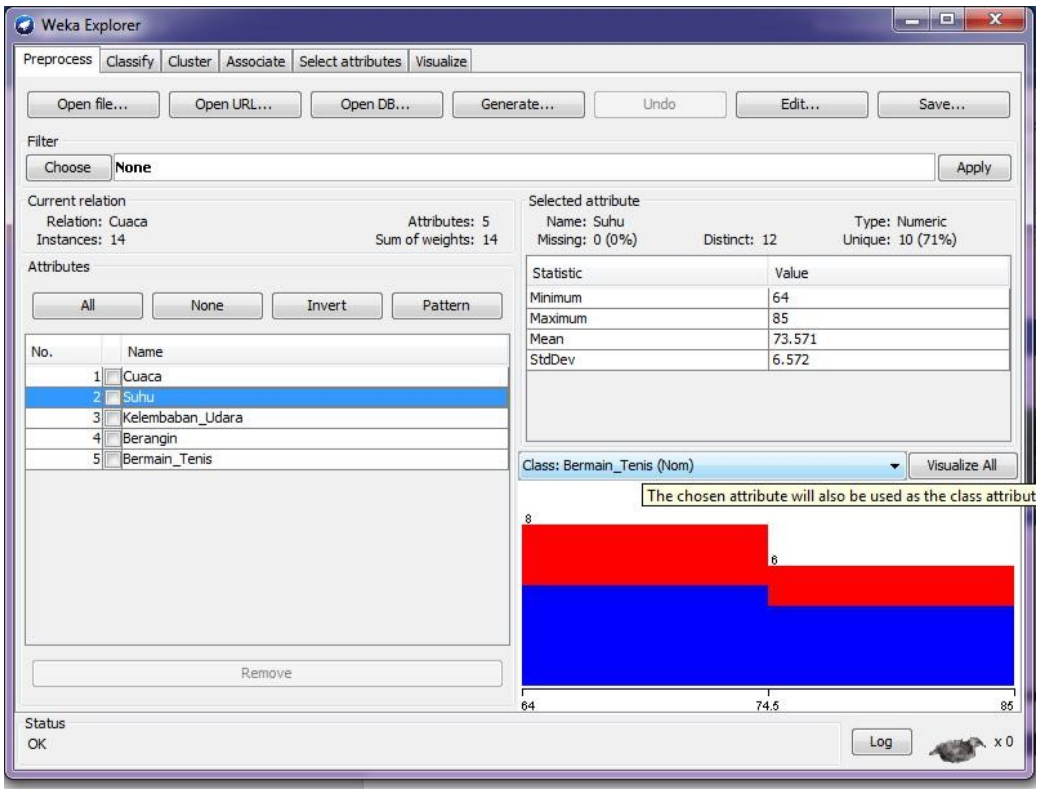
C: > Users > LABSI-01 > Documents > prak DWDM > Cuaca.arff

```
@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
```

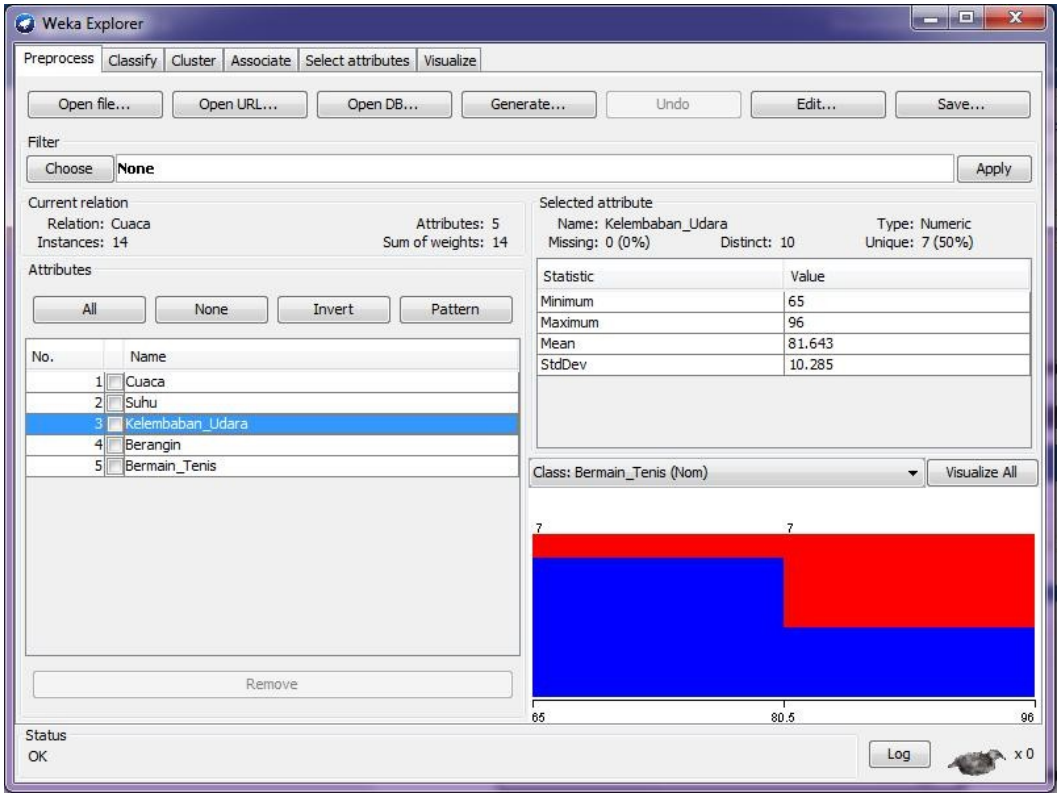
-cuaca


Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Open file...
Open URL...
Open DB...
Generate...
Undo
Edit...
Save...
Filter
Choose
None
Apply
Current relation
Relation: Cuaca
Instances: 14
Attributes: 5
Sum of weights: 14
Selected attribute
Name: Cuaca
Missing: 0 (0%)
Distinct: 3
Type: Nominal
Unique: 0 (0%)
Attributes
All
None
Invert
Pattern
No.
Name
1 Cuaca
2 Suhu
3 Kelembaban_Udara
4 Berangin
5 Bermain_Tenis
No.
Label
Count
Weight
1 Cerah 5 5.0
2 Mendung 4 4.0
3 Hujan 5 5.0
Class: Bermain_Tenis (Nom)
Visualize All
5
4
5
Remove
Status
OK
Log
x 0

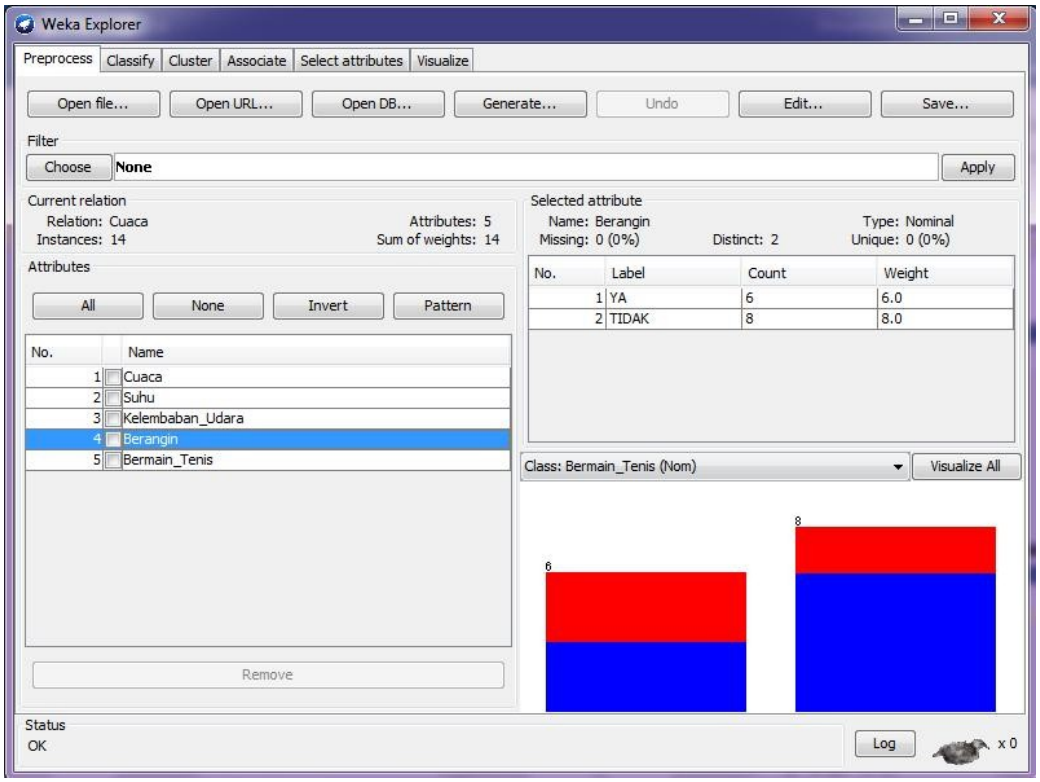
-suhu


Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Open file...
Open URL...
Open DB...
Generate...
Undo
Edit...
Save...
Filter
Choose
None
Apply
Current relation
Relation: Cuaca
Instances: 14
Attributes: 5
Sum of weights: 14
Selected attribute
Name: Suhu
Missing: 0 (0%)
Distinct: 12
Type: Numeric
Unique: 10 (71%)
Attributes
All
None
Invert
Pattern
No.
Name
1 Cuaca
2 Suhu
3 Kelembaban_Udara
4 Berangin
5 Bermain_Tenis
Statistic
Value
Minimum 64
Maximum 85
Mean 73.571
StdDev 6.572
Class: Bermain_Tenis (Nom)
Visualize All
The chosen attribute will also be used as the class attribut
8
6
64
74.5
85
Remove
Status
OK
Log
x 0

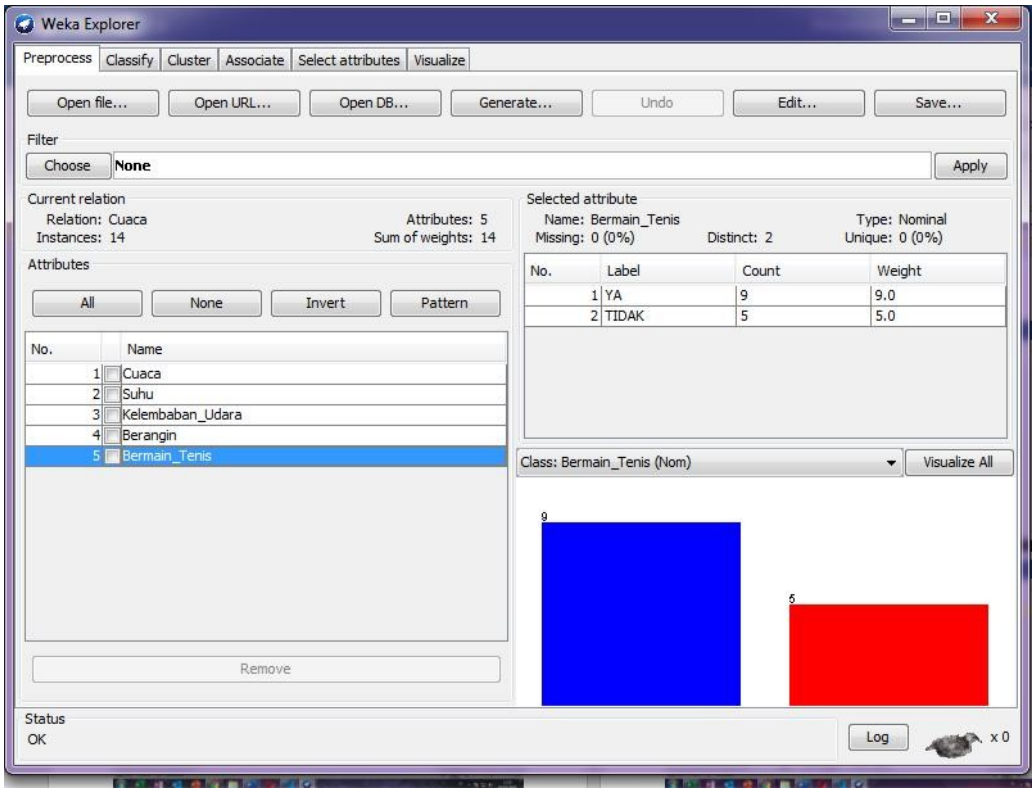
-kelembaban udara



-berangin



-bermain tennis



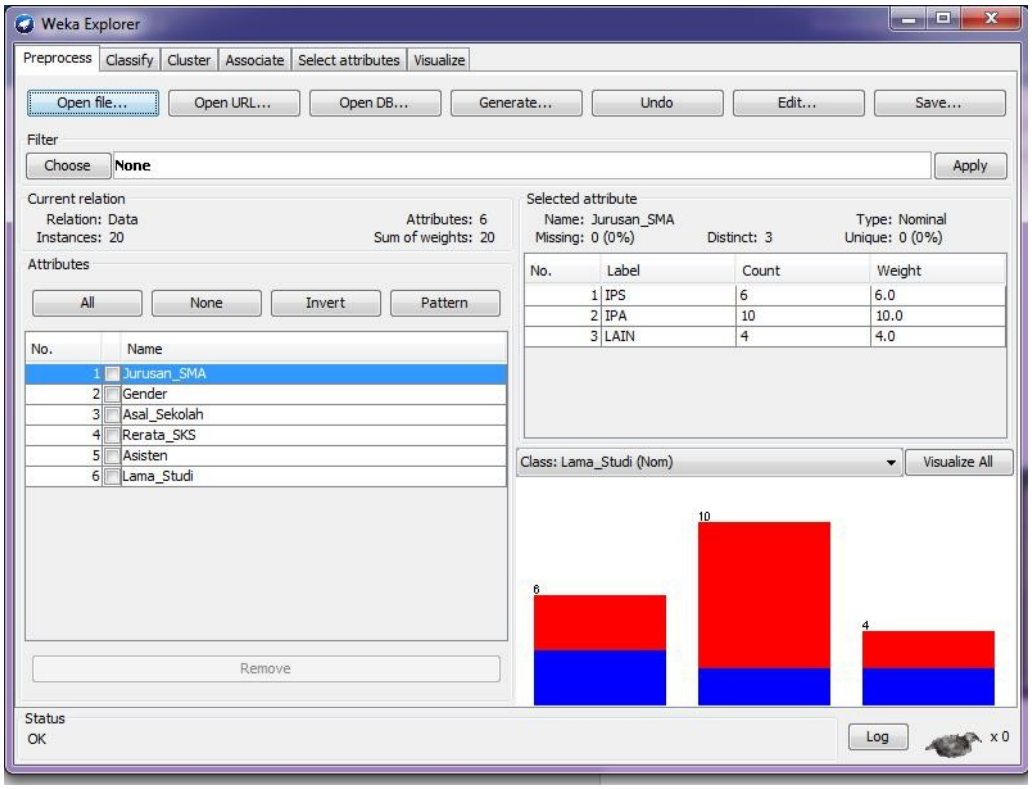
TUGAS

	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_SKS	Asisten	Lama_Studi
2	IPS	WANITA	SURAKARTA	18	TIDAK	TERLAMBAT
3	IPA	PRIA	SURAKARTA	19	YA	TEPAT
4	LAIN	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT
5	IPA	PRIA	LUAR	17	TIDAK	TERLAMBAT
6	IPA	WANITA	SURAKARTA	17	TIDAK	TEPAT
7	IPA	WANITA	LUAR	18	YA	TEPAT
8	IPA	PRIA	SURAKARTA	18	TIDAK	TERLAMBAT
9	IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT
10	IPS	PRIA	LUAR	18	TIDAK	TERLAMBAT
11	LAIN	WANITA	SURAKARTA	18	TIDAK	TEPAT
12	IPA	WANITA	SURAKARTA	19	TIDAK	TEPAT
13	IPS	PRIA	SURAKARTA	20	TIDAK	TEPAT
14	IPS	PRIA	SURAKARTA	19	TIDAK	TEPAT
15	IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT
16	IPA	PRIA	LUAR	22	YA	TEPAT
17	LAIN	PRIA	SURAKARTA	16	TIDAK	TERLAMBAT
18	IPS	PRIA	LUAR	20	TIDAK	TEPAT
19	LAIN	PRIA	LUAR	23	YA	TEPAT
20	IPA	PRIA	SURAKARTA	21	YA	TEPAT
21	IPS	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT

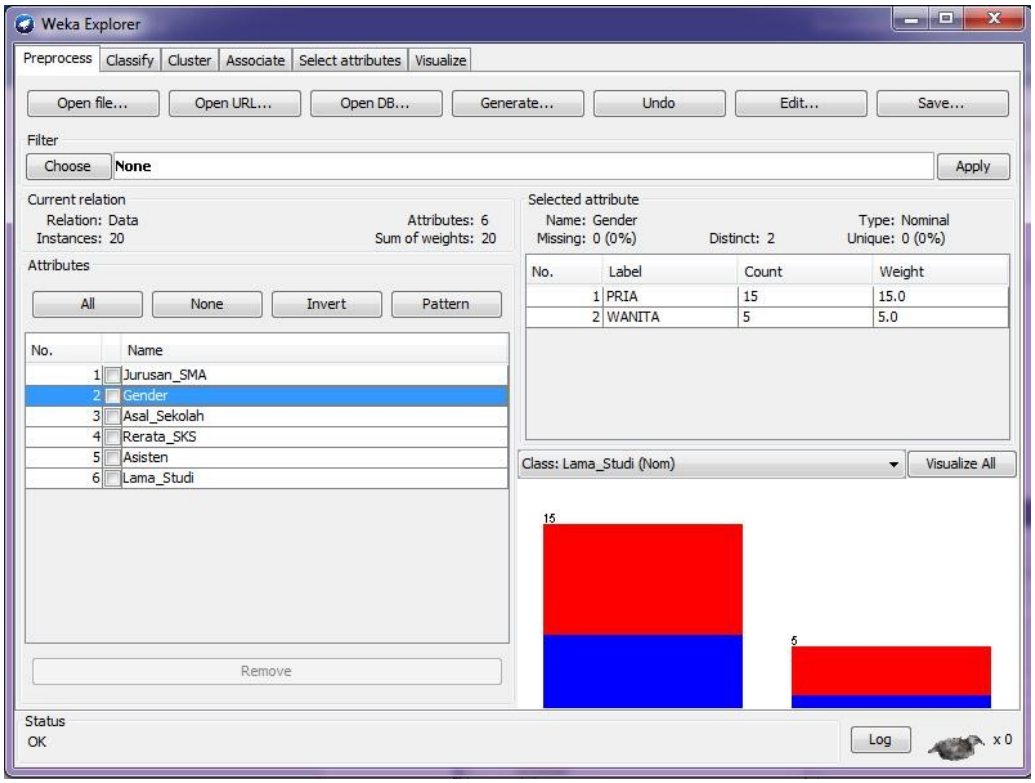
1. Buat file ARFF berdasarkan tugas pada Modul 6 soal nomor 1!

```
@relation Data

@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
```

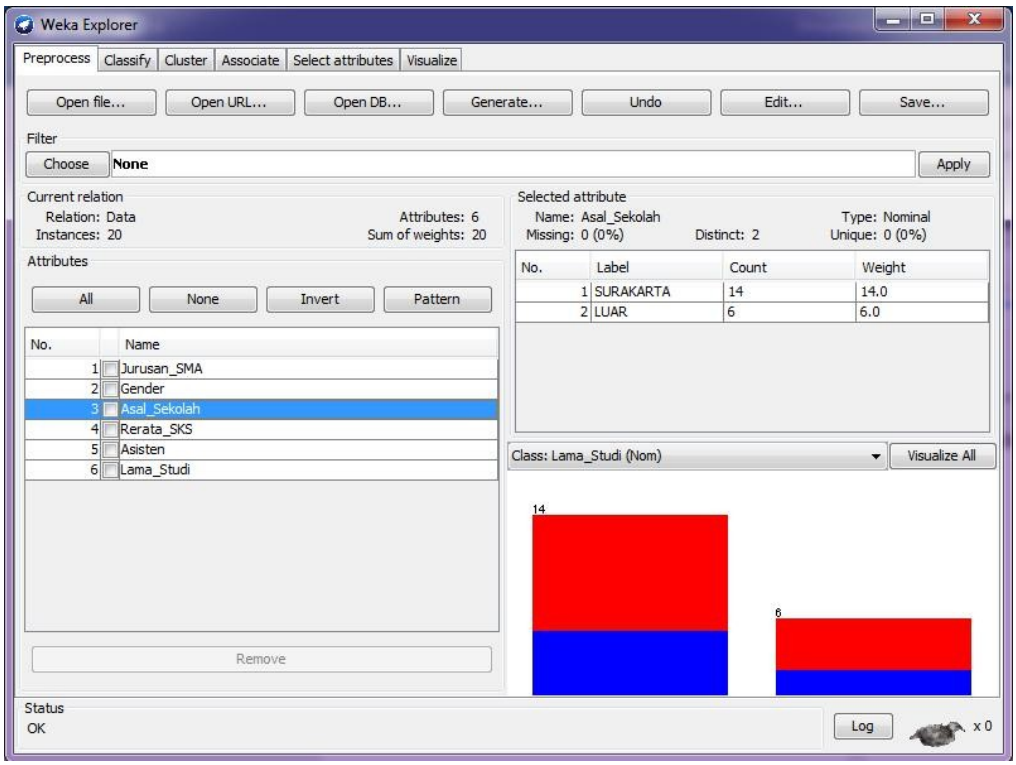
2. Jurusan_SMA



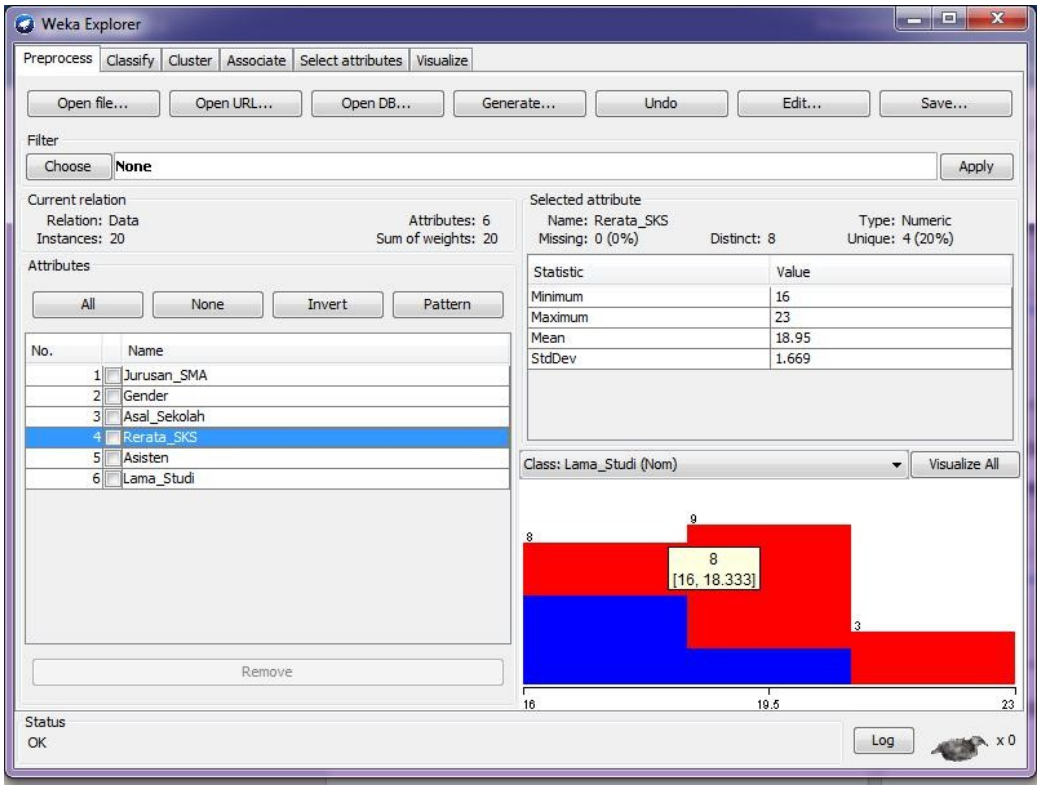
- Gender



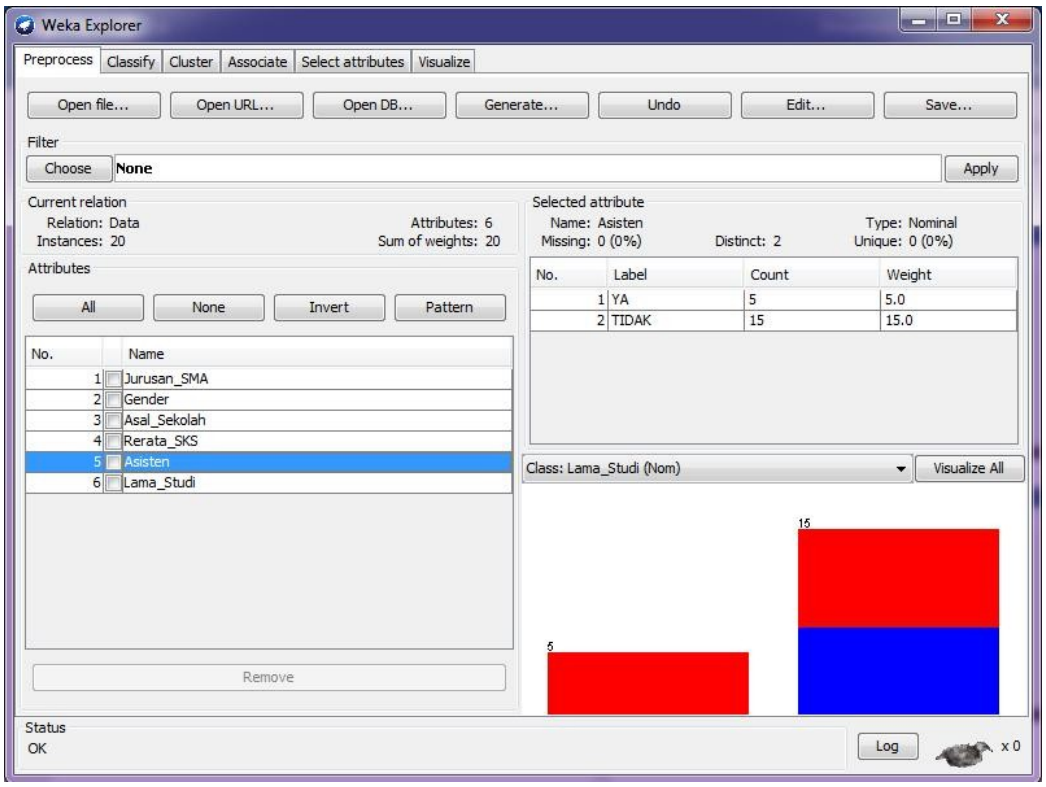
-- Asal_Sekolah



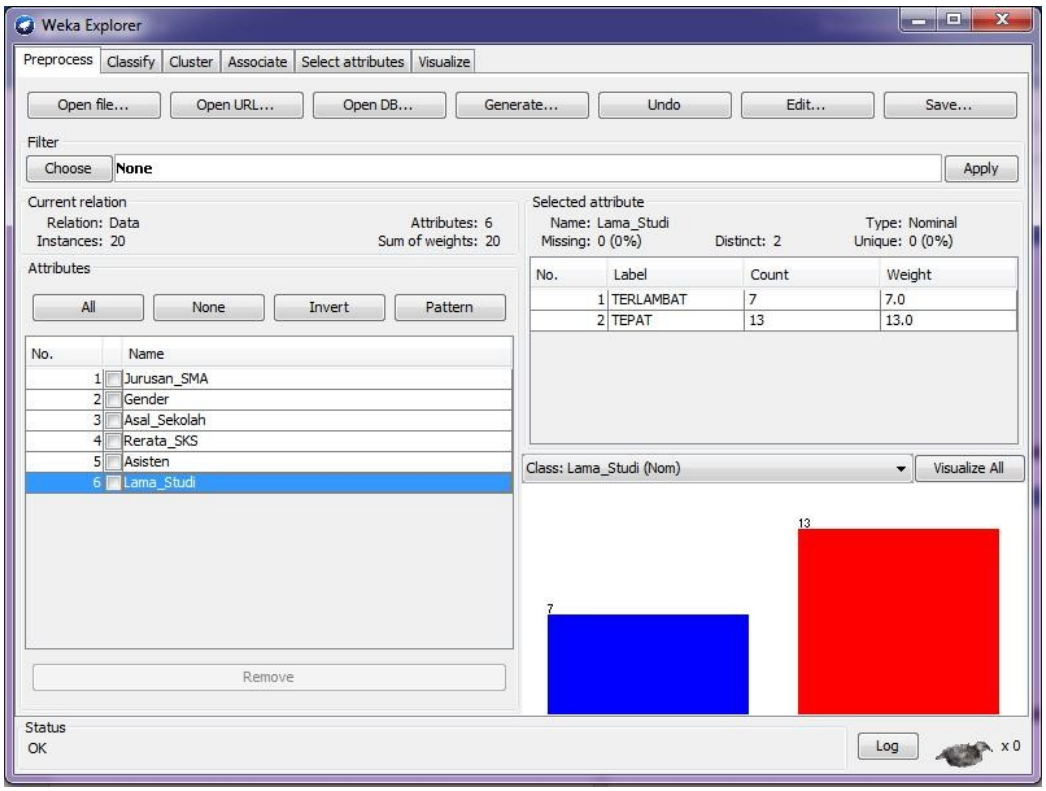
-Rerata_SKS



- Asisten



Lama_Studi



Jumlah atribut

Binomial: 4

Polynomial :1

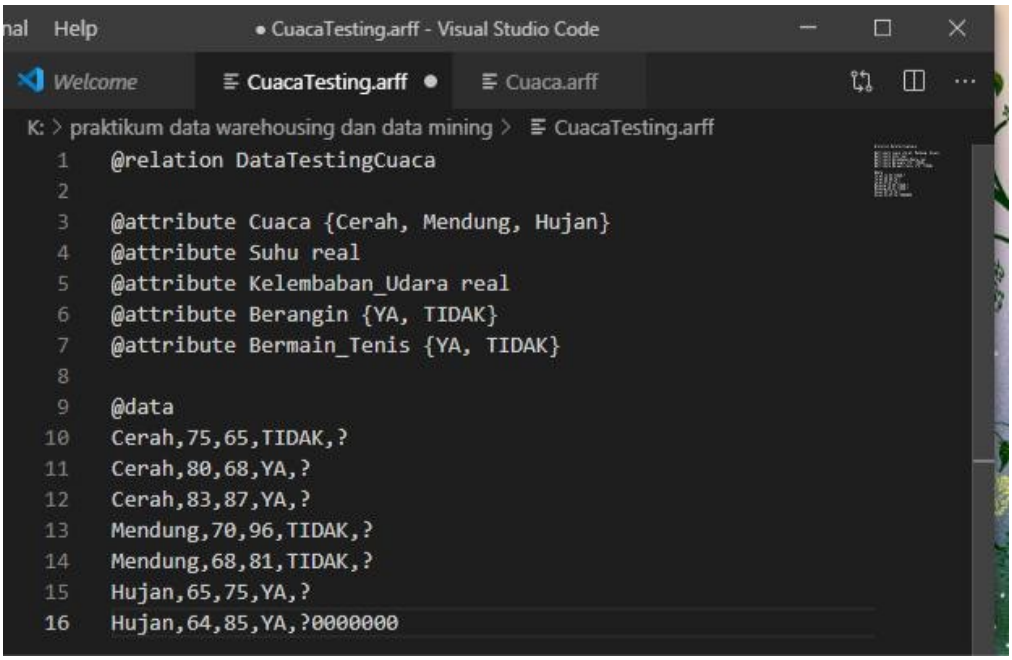
atribut bertipe real 1

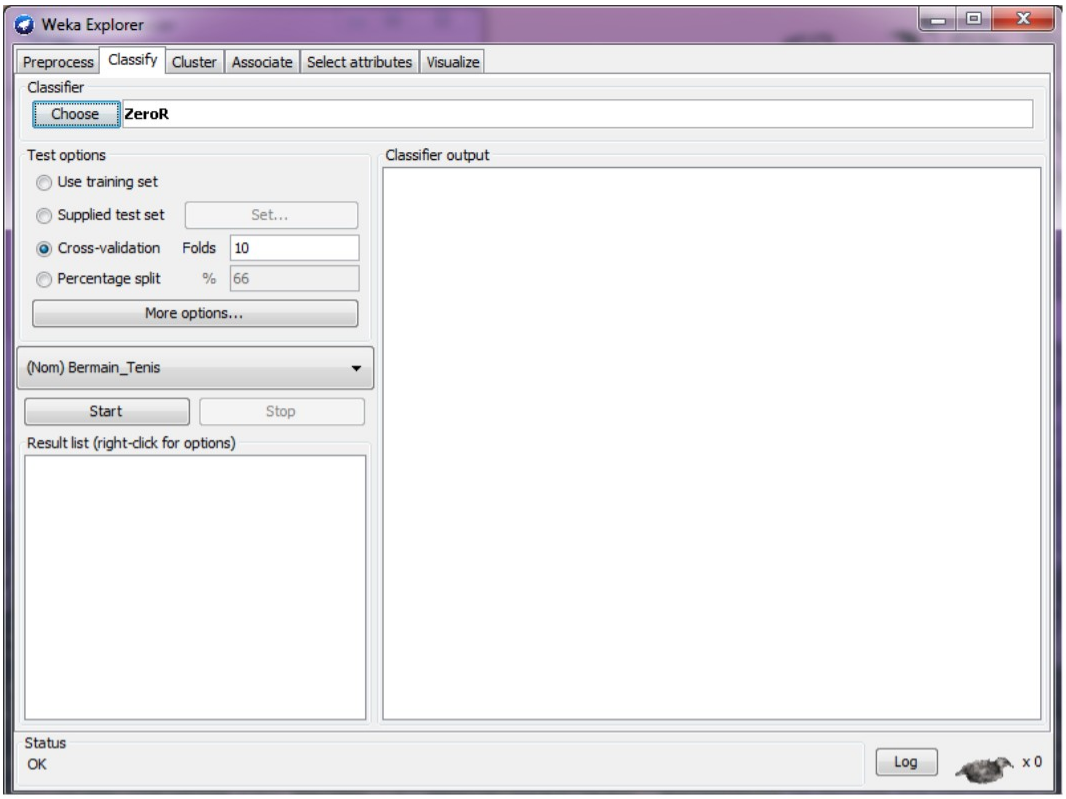
Statistic	Value
Minimum	16
Maximum	23
Mean	18.95
StdDev	1.669

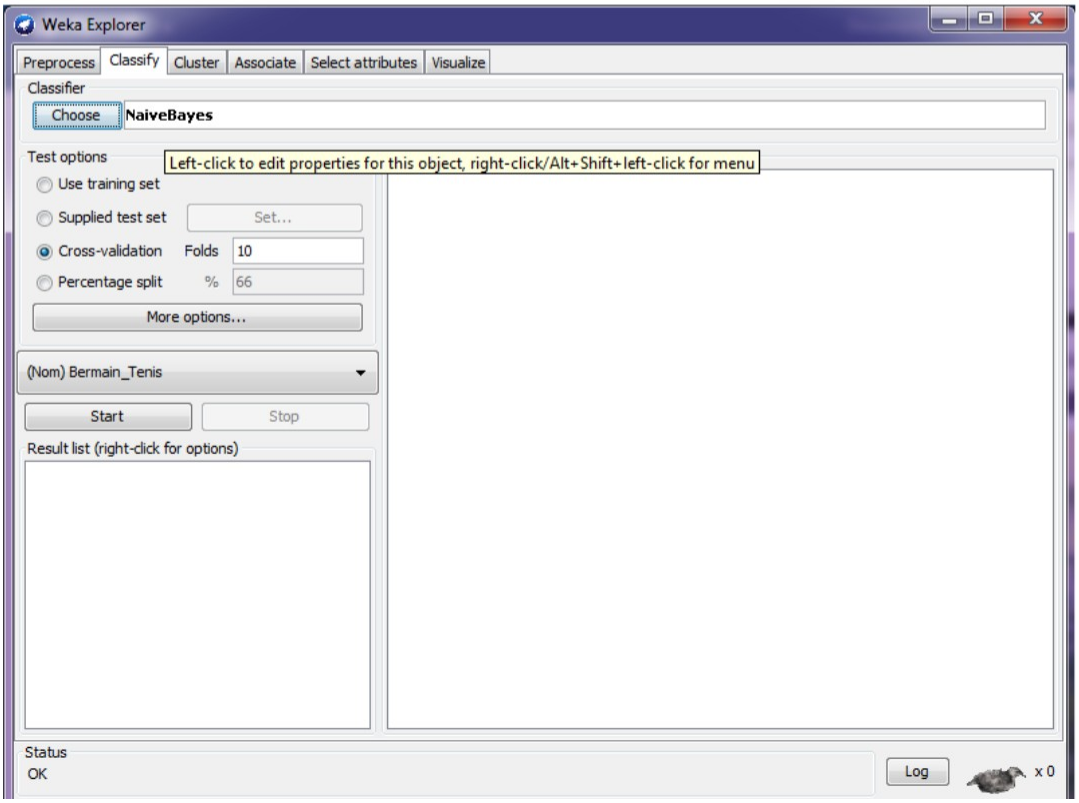
MODUL8

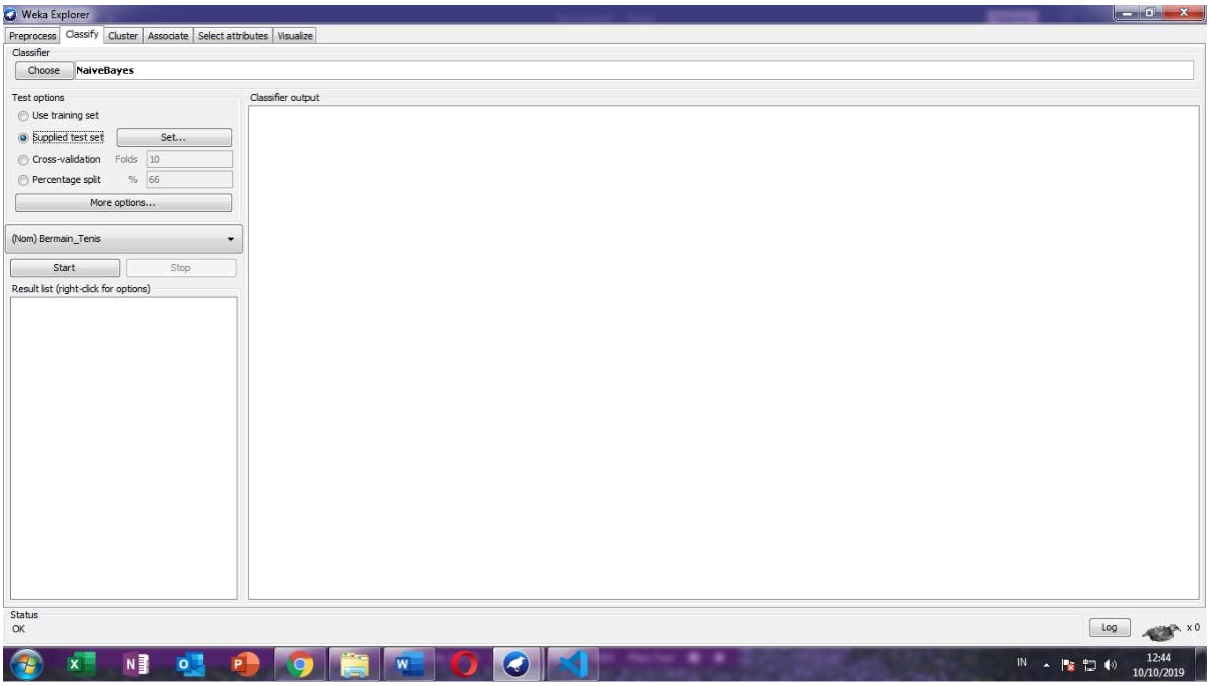
PERCOBAAN

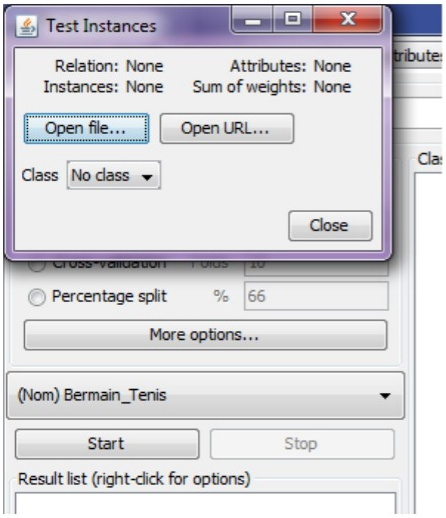
-MENGGUNAKAN WEKA

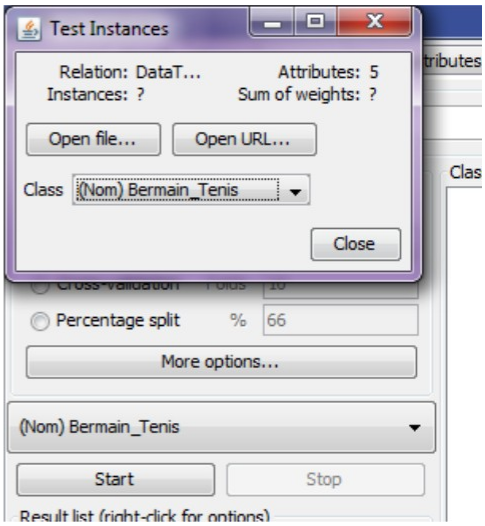


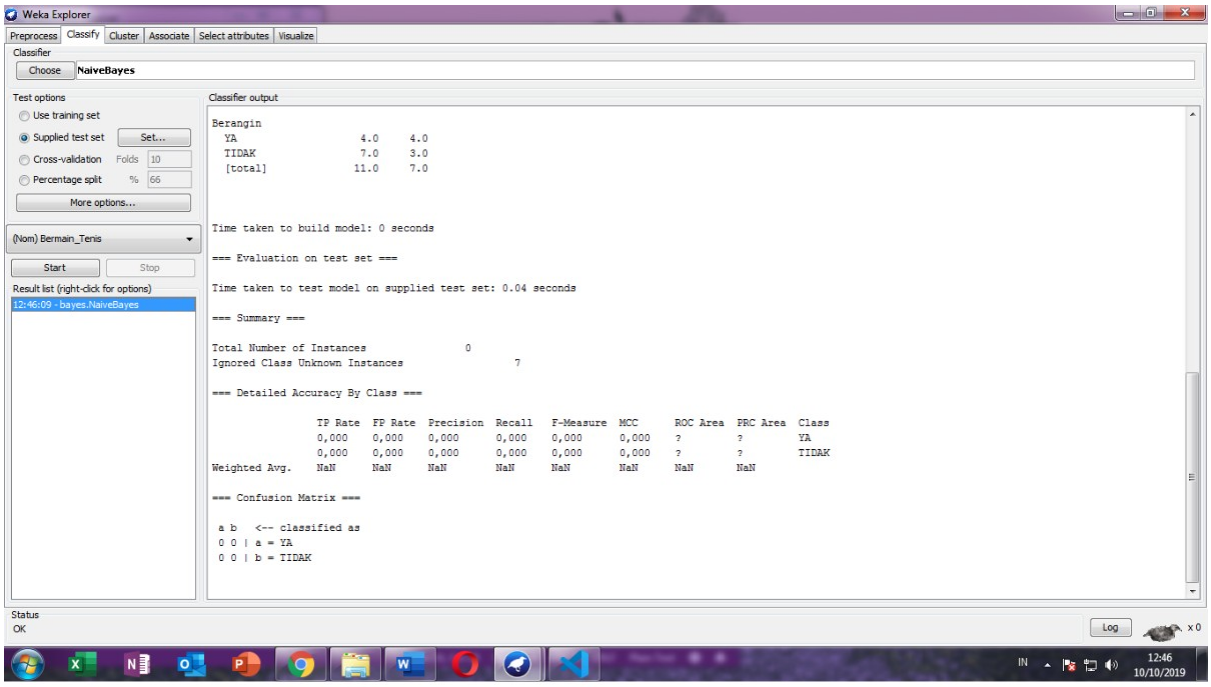

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
ZeroR
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
Classifier output
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
Status
OK
Log
x 0

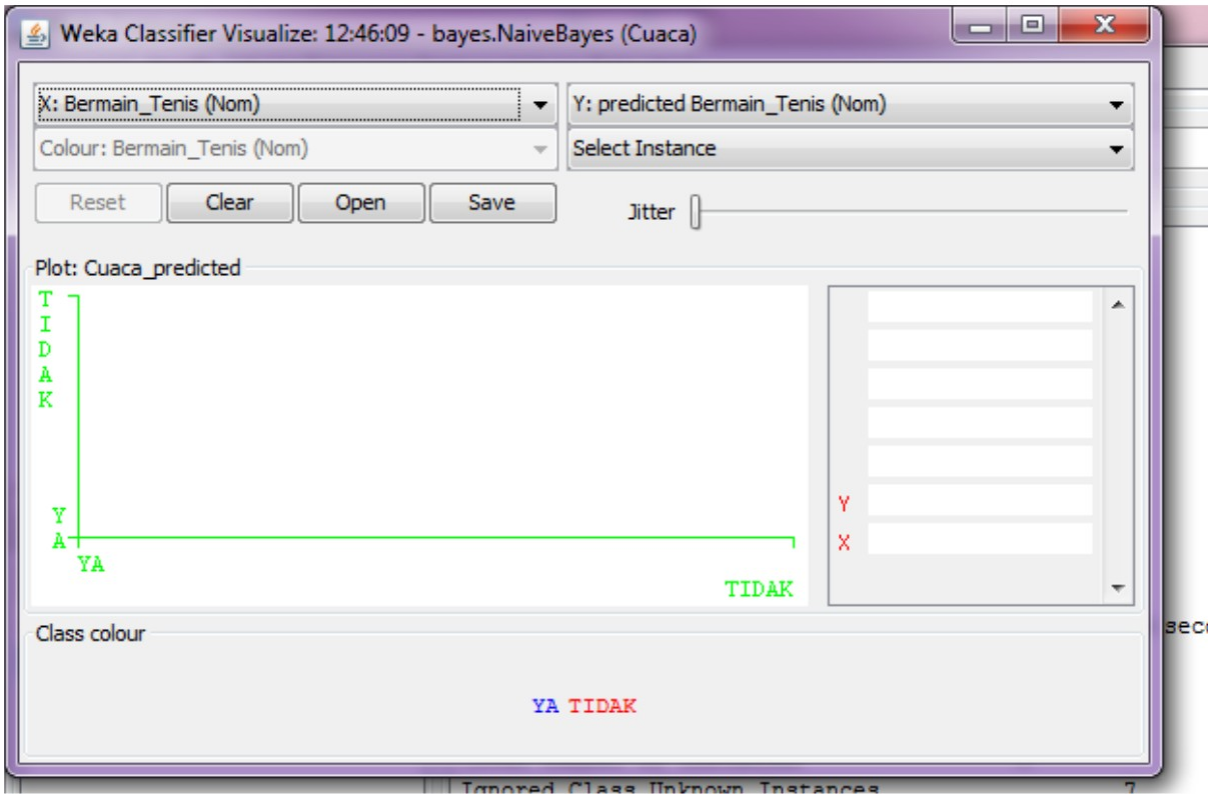

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
NaiveBayes
Test options
Left-click to edit properties for this object, right-click/Alt+Shift+left-click for menu
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
Status
OK
Log
x 0

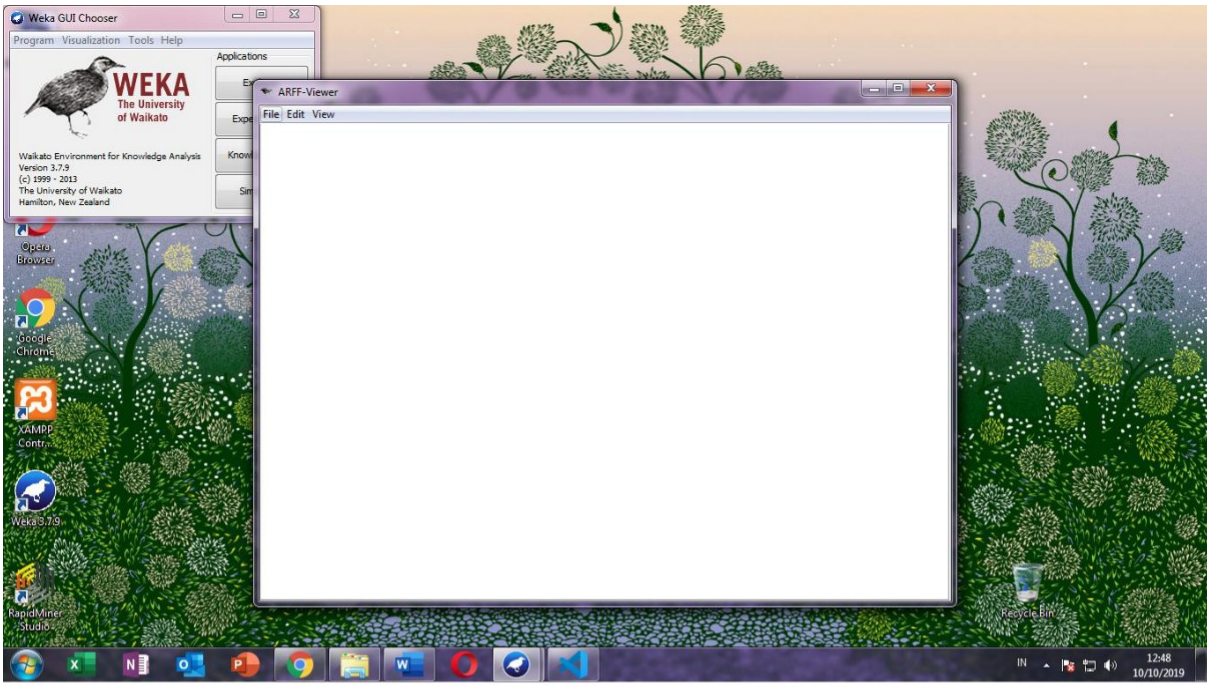

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
NaiveBayes
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
Classifier output
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
Status
OK
Log
x 0
IN
12:44
10/10/2019


Test Instances
Relation: None
Attributes: None
Instances: None
Sum of weights: None
Open file...
Open URL...
Class
No class
Close
Percentage split
%
66
More options...
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)


Test Instances
Relation: DataT...
Attributes: 5
Instances: ?
Sum of weights: ?
Open file...
Open URL...
Class
(Nom) Bermain_Tenis
Close
Percentage split
%
66
More options...
(Nom) Bermain_Tenis
Start
Stop


Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
NaiveBayes
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
12:46:09 - bayes.NaiveBayes
Classifier output
Berangin
YA 4.0 4.0
TIDAK 7.0 3.0
[total] 11.0 7.0
Time taken to build model: 0 seconds
=== Evaluation on test set ===
Time taken to test model on supplied test set: 0.04 seconds
=== Summary ===
Total Number of Instances 0
Ignored Class Unknown Instances 7
=== Detailed Accuracy By Class ===
TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class
0,000 0,000 0,000 0,000 0,000 0,000 ? ? YA
0,000 0,000 0,000 0,000 0,000 0,000 ? ? TIDAK
Weighted Avg. NaN NaN NaN NaN NaN NaN NaN NaN
=== Confusion Matrix ===
a b <-- classified as
0 0 | a = YA
0 0 | b = TIDAK
Status
OK
Log
x 0
IN
12:46
10/10/2019


Weka Classifier Visualize: 12:46:09 - bayes.NaiveBayes (Cuaca)
X: Bermain_Tenis (Nom)
Y: predicted Bermain_Tenis (Nom)
Colour: Bermain_Tenis (Nom)
Select Instance
Reset
Clear
Open
Save
Jitter
Plot: Cuaca_predicted
TIDAK
YA
YA
TIDAK
Y
X
Class colour
YA TIDAK



ARFF-Viewer - K:\praktikum data warehousing dan data mining\HasilPrediksi.arff

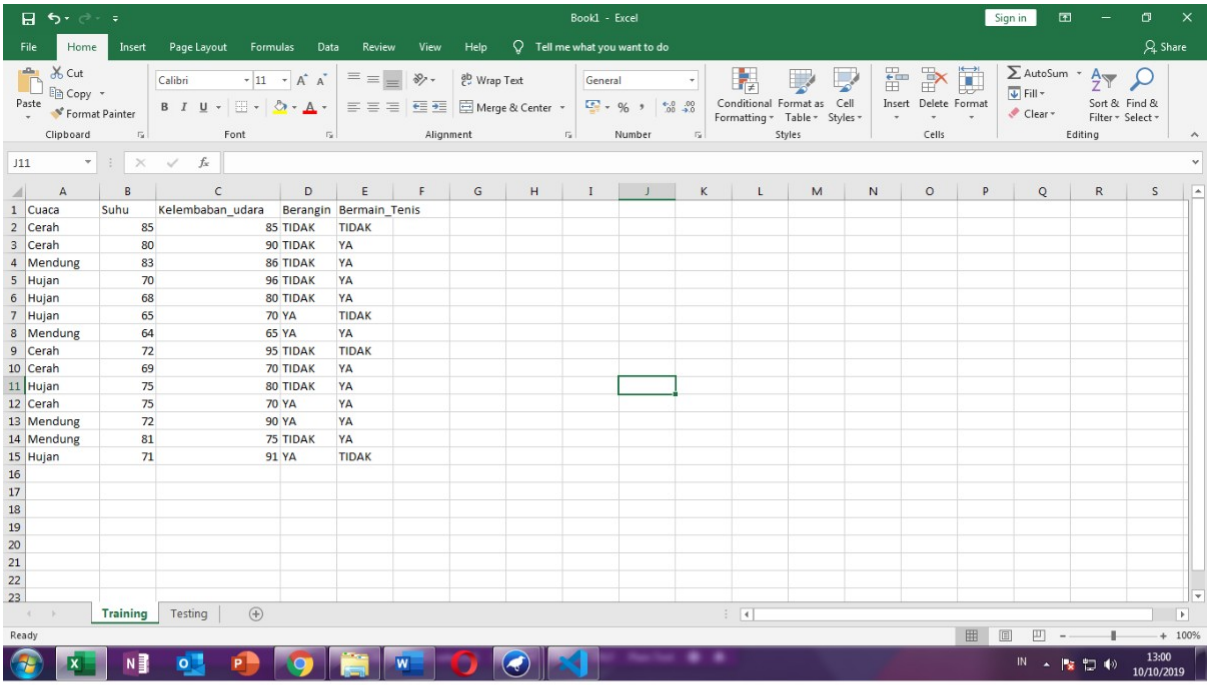
File Edit View

HasilPrediksi.arff | HasilPrediksi.arff

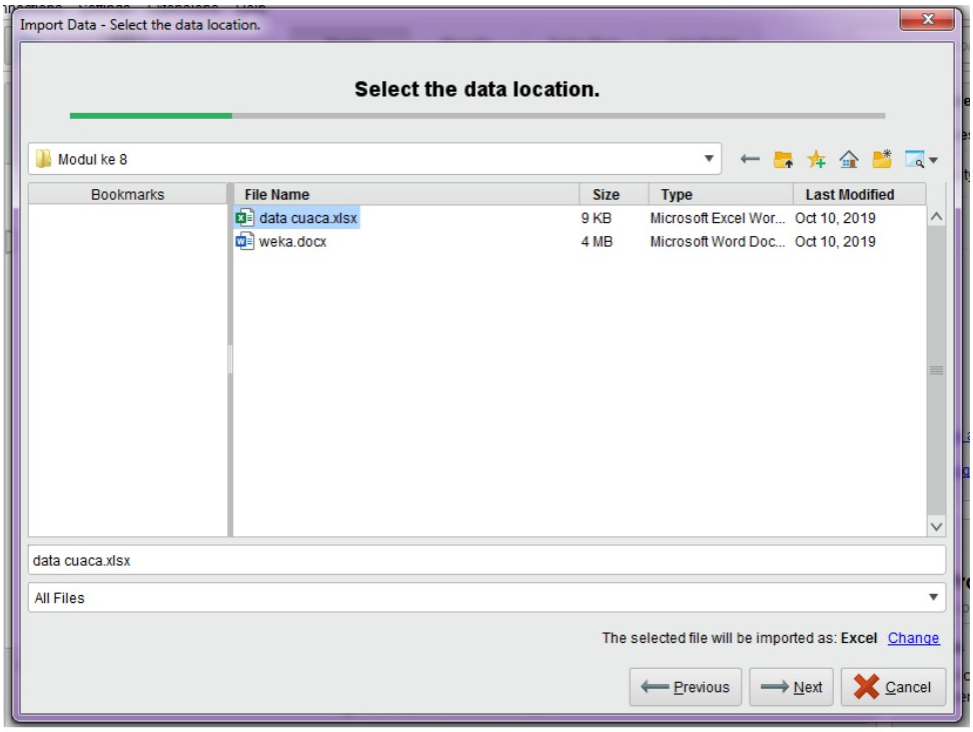
Relation: Cuaca_predicted

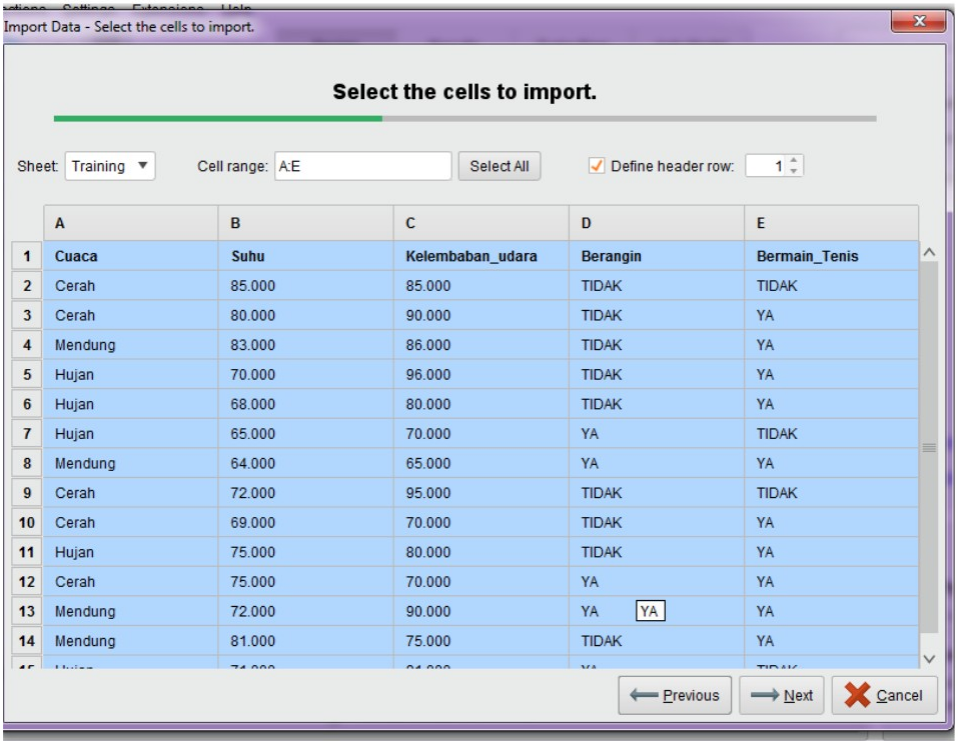
No.	1: Cuaca Nominal	2: Suhu Numeric	3: Kelembaban_Udara Numeric	4: Berangin Nominal	5: prediction margin Numeric	6: predicted Bermain_Tenis Nominal	7: **Bermain_Tenis** Nominal
1	Cerah	75.0	65.0	TIDAK	0.762765	YA	
2	Cerah	80.0	68.0	YA	0.087878	YA	
3	Cerah	83.0	87.0	YA	-0.676866	TIDAK	
4	Mendung	70.0	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	

-MENGGUNAKAN RAPID MINER

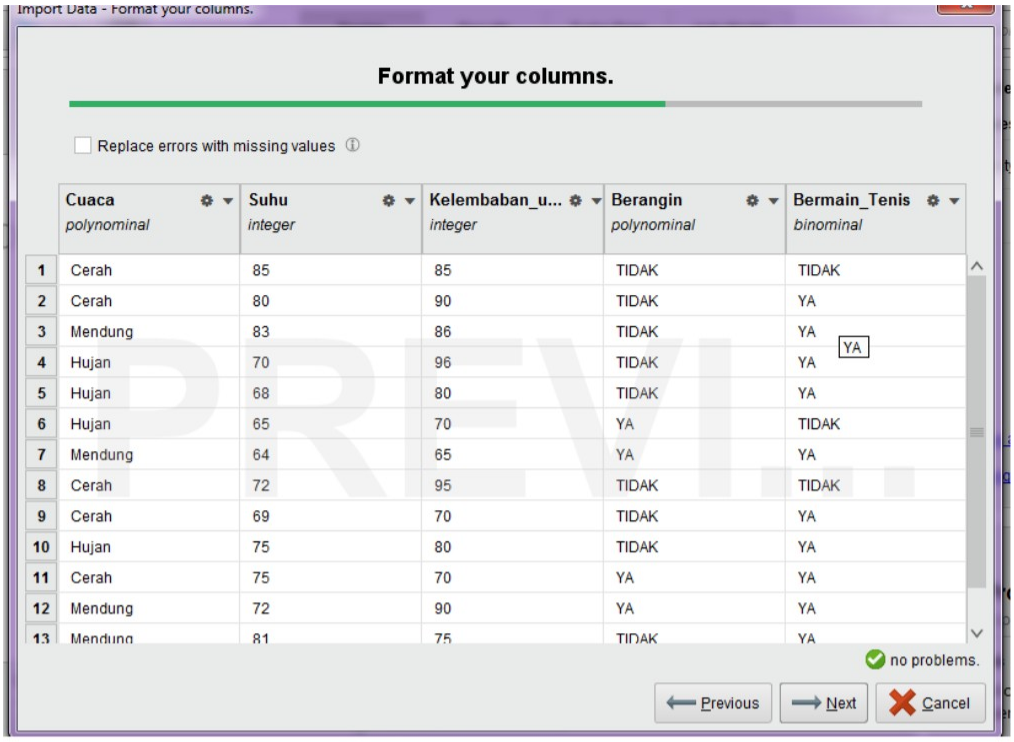


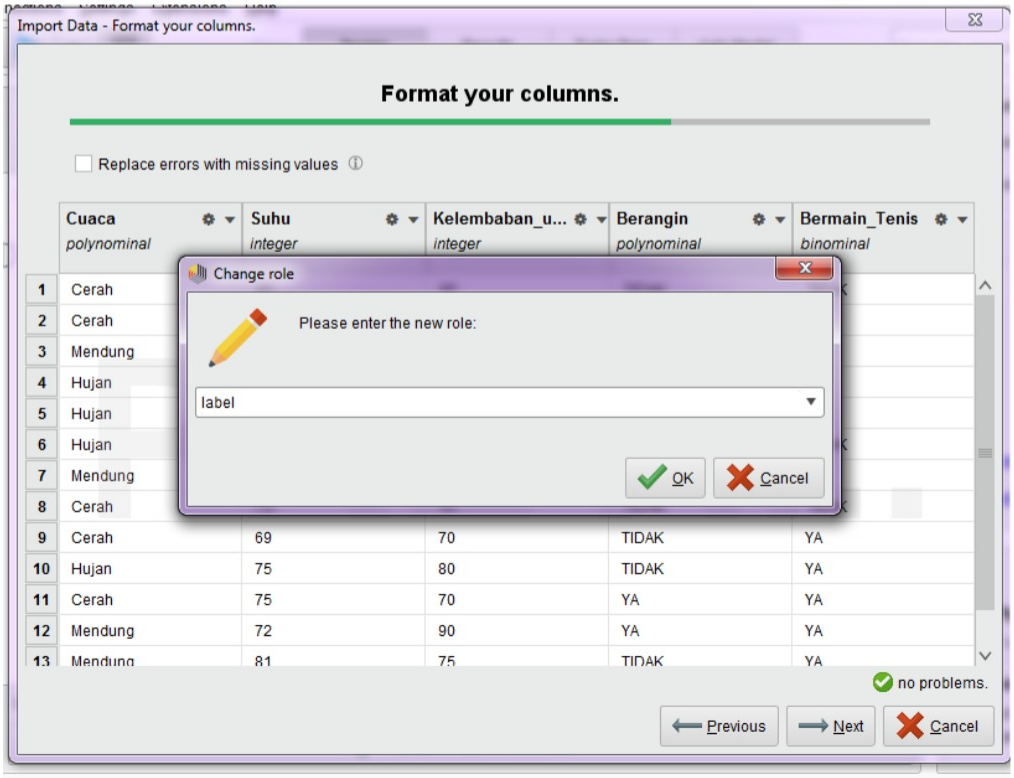
	A	B	C	D	E	F
1	Cuaca	Suhu	Kelembab	Berangin		
2	Cerah	75	65	TIDAK		
3	Cerah	80	68	YA		
4	Cerah	83	87	YA		
5	Mendung	70	96	TIDAK		
6	Mendung	68	81	TIDAK		
7	Hujan	65	75	YA		
8	Hujan	64	85	YA		
9						
10						
11						

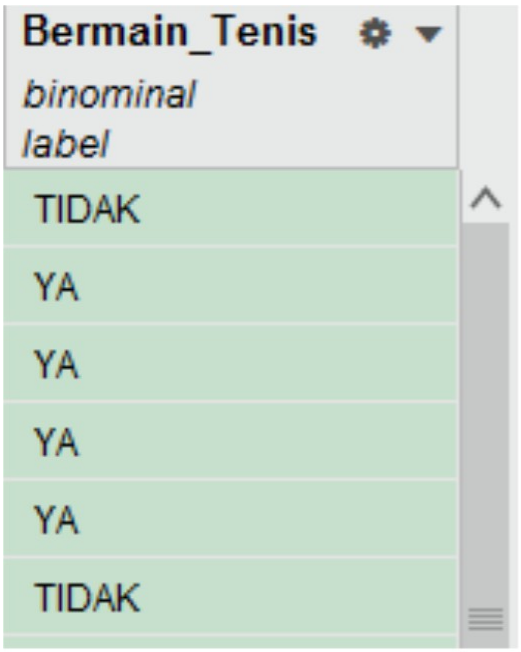


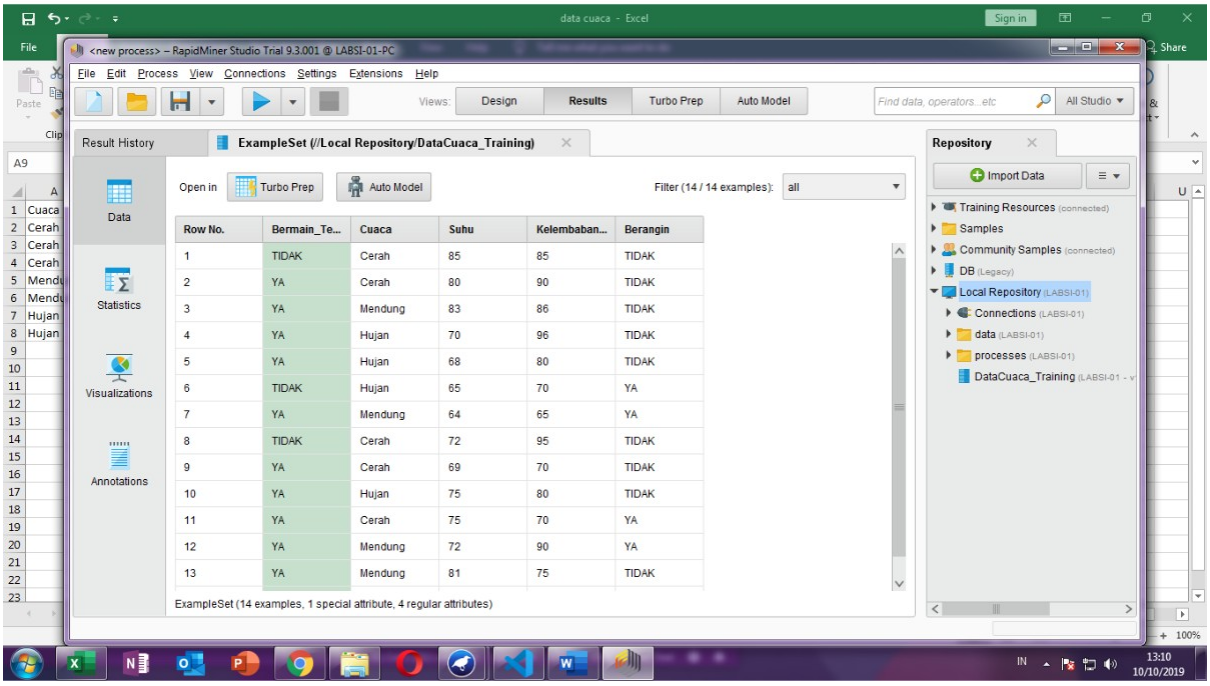


	A	B	C	D	E
1	Cuaca	Suhu	Kelembaban_udara	Berangin	Bermain_Tenis
2	Cerah	85.000	85.000	TIDAK	TIDAK
3	Cerah	80.000	90.000	TIDAK	YA
4	Mendung	83.000	86.000	TIDAK	YA
5	Hujan	70.000	96.000	TIDAK	YA
6	Hujan	68.000	80.000	TIDAK	YA
7	Hujan	65.000	70.000	YA	TIDAK
8	Mendung	64.000	65.000	YA	YA
9	Cerah	72.000	95.000	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

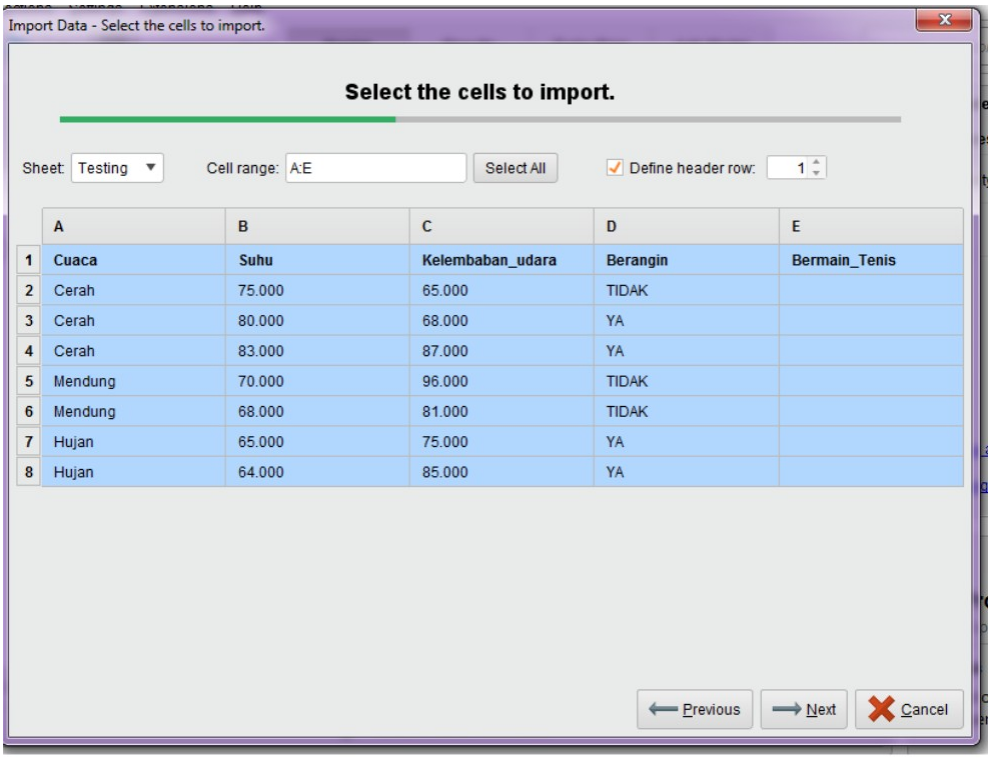

Import Data - Format your columns.
Format your columns.
Replace errors with missing values
Cuaca polynominal
Suhu integer
Kelembaban_u... integer
Berangin polynominal
Bermain_Tenis binominal
1 Cerah 85 85 TIDAK TIDAK
2 Cerah 80 90 TIDAK YA
3 Mendung 83 86 TIDAK YA
4 Hujan 70 96 TIDAK YA
5 Hujan 68 80 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
YA
no problems.
Previous
Next
Cancel


Import Data - Format your columns.
Format your columns.
Replace errors with missing values
Cuaca polynominal
Suhu integer
Kelembaban_u... integer
Berangin polynominal
Bermain_Tenis binominal
Change role
Please enter the new role:
label
OK
Cancel
1 Cerah
2 Cerah
3 Mendung
4 Hujan
5 Hujan
6 Hujan
7 Mendung
8 Cerah
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

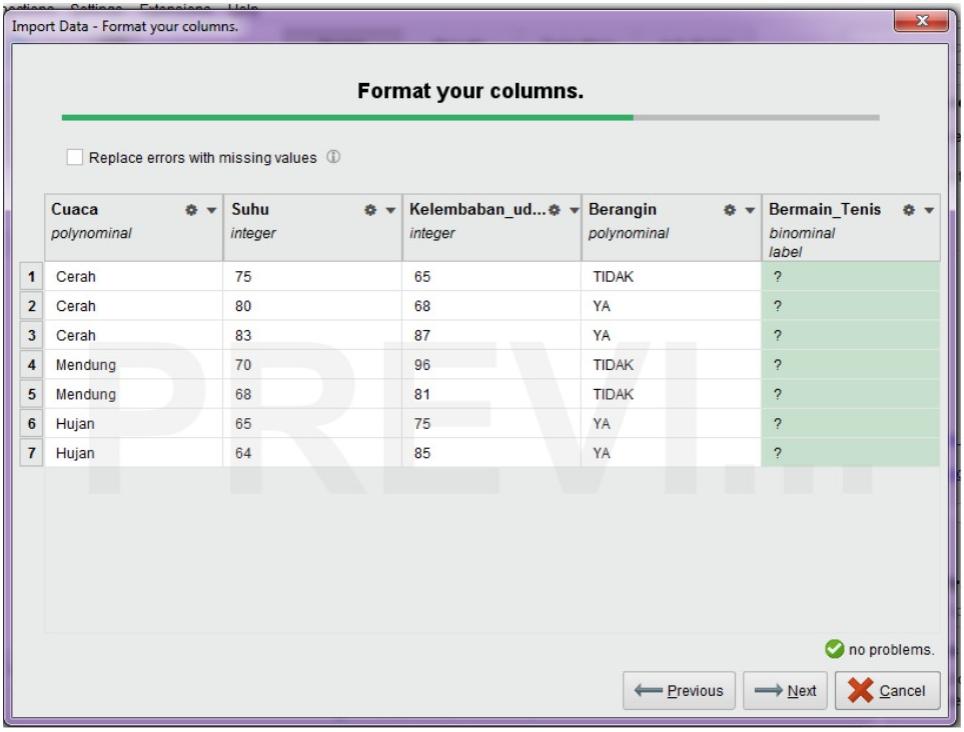

Bermain_Tenis
binominal
label
TIDAK
YA
YA
YA
YA
TIDAK


data cuaca - Excel
<new process> – RapidMiner Studio Trial 9.3.001 @ LABSI-01-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Result History
ExampleSet (//Local Repository/DataCuaca_Training)
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 YA Cerah 80 90 TIDAK
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
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB (Legacy)
Local Repository (LABSI-01)
Connections (LABSI-01)
data (LABSI-01)
processes (LABSI-01)
DataCuaca_Training (LABSI-01 - v
13:10
10/10/2019

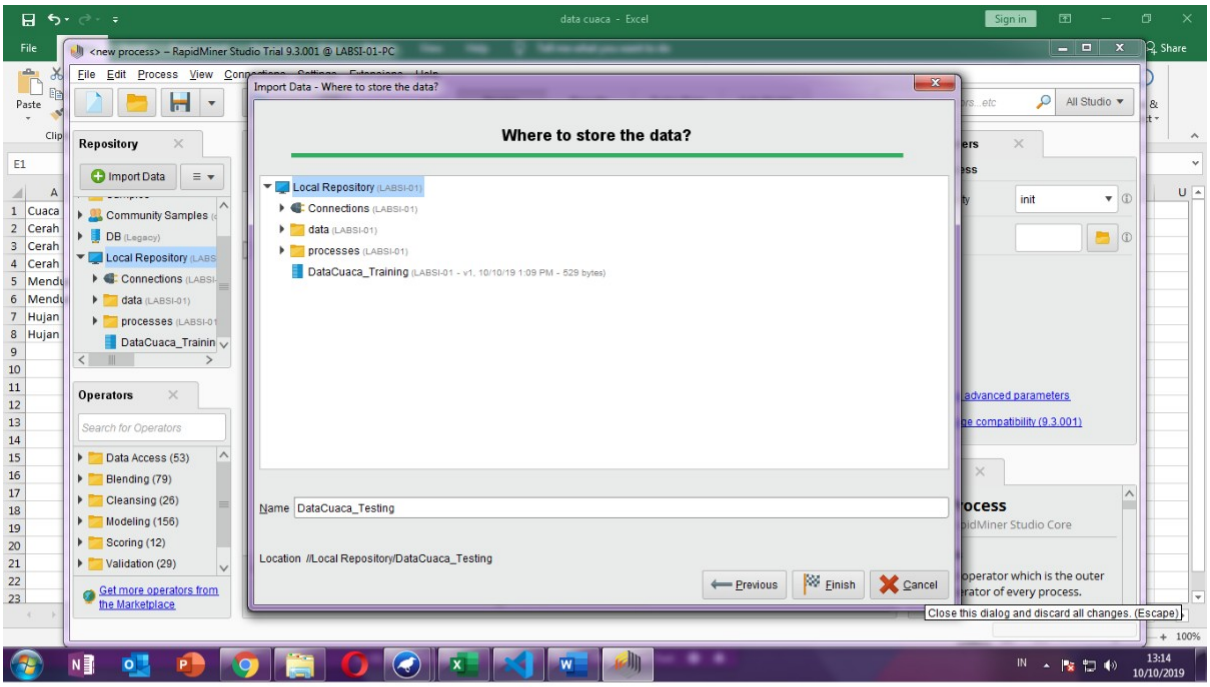
12.

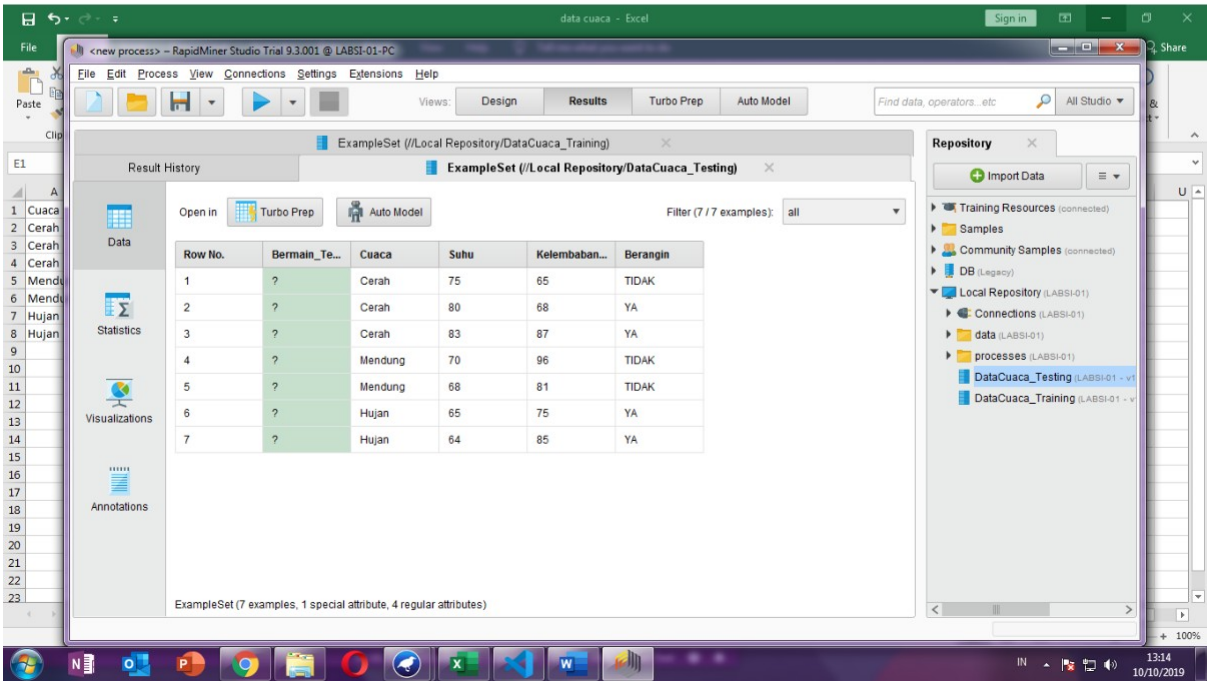


	A	B	C	D	E
1	Cuaca	Suhu	Kelembaban_udara	Berangin	Bermain_Tenis
2	Cerah	75.000	65.000	TIDAK	
3	Cerah	80.000	68.000	YA	
4	Cerah	83.000	87.000	YA	
5	Mendung	70.000	96.000	TIDAK	
6	Mendung	68.000	81.000	TIDAK	
7	Hujan	65.000	75.000	YA	
8	Hujan	64.000	85.000	YA	

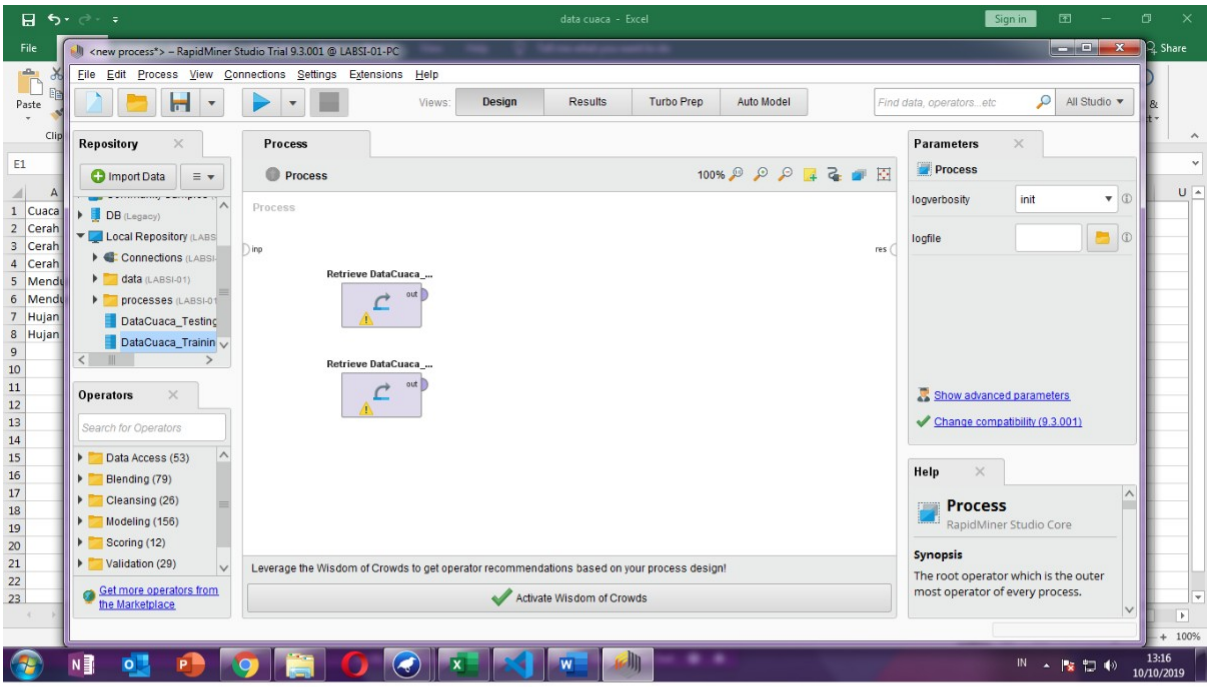


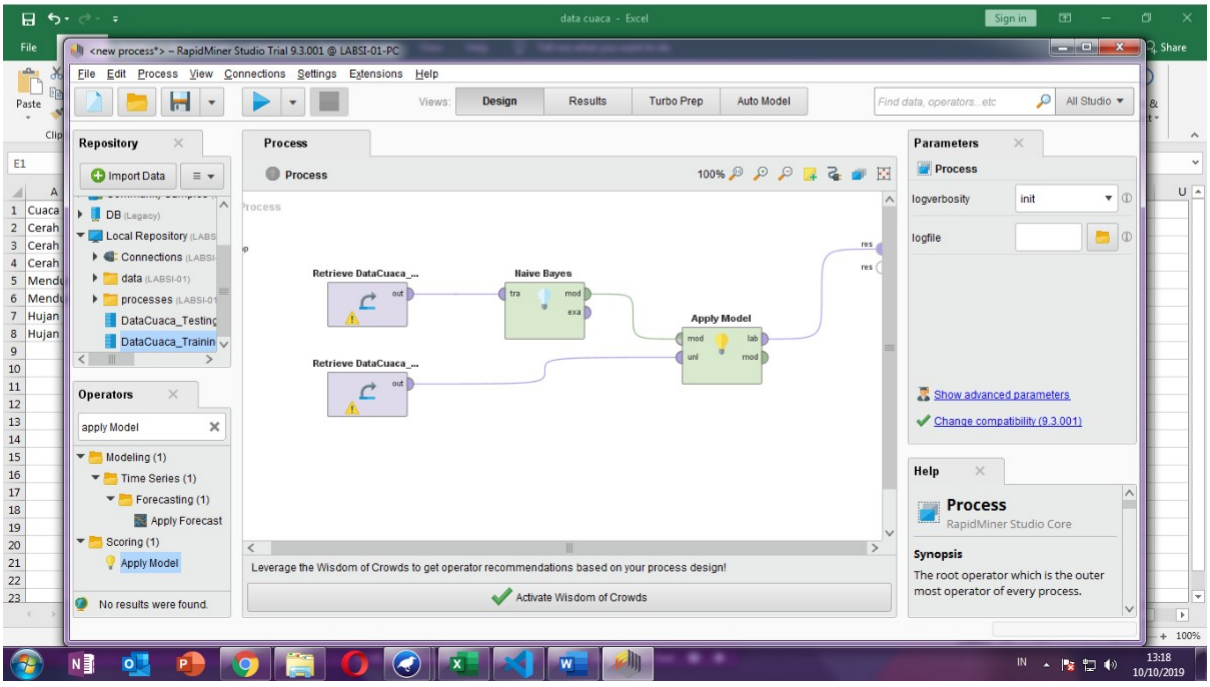
	Cuaca *polynominal*	Suhu *integer*	Kelembaban_ud... *integer*	Berangin *polynominal*	Bermain_Tenis *binominal* *label*
1	Cerah	75	65	TIDAK	?
2	Cerah	80	68	YA	?
3	Cerah	83	87	YA	?
4	Mendung	70	96	TIDAK	?
5	Mendung	68	81	TIDAK	?
6	Hujan	65	75	YA	?
7	Hujan	64	85	YA	?

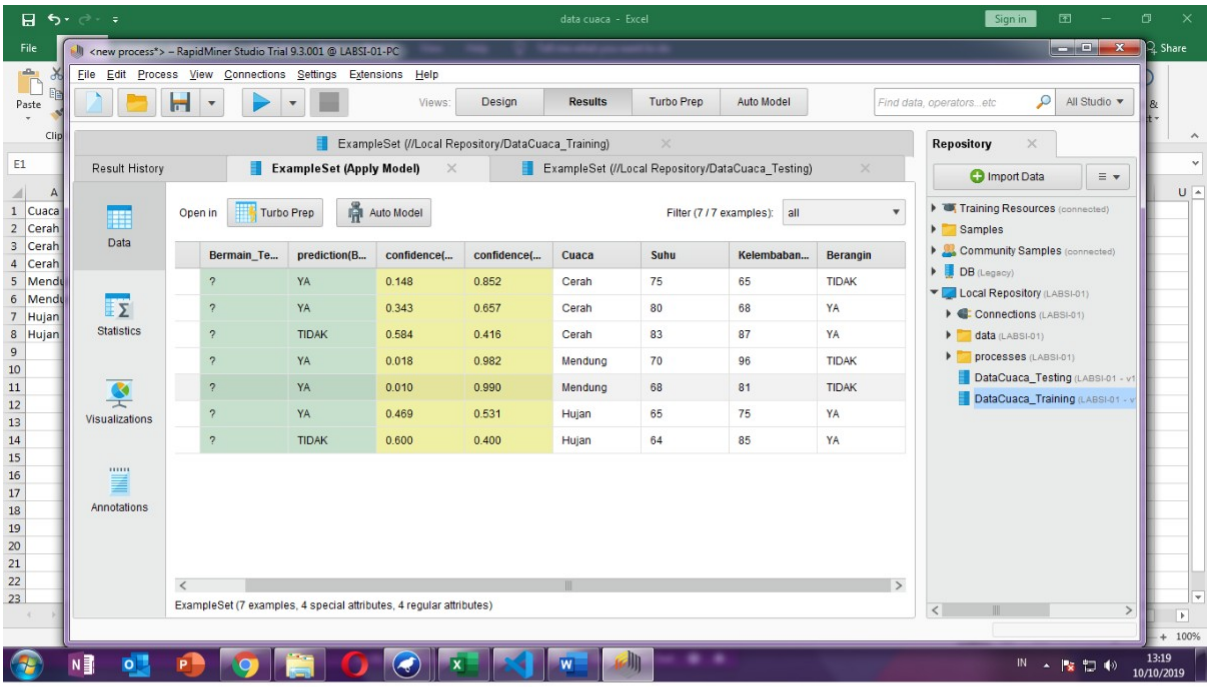

data cuaca - Excel
Import Data - Where to store the data?
Where to store the data?
Local Repository (LABSI-01)
Connections (LABSI-01)
data (LABSI-01)
processes (LABSI-01)
DataCuaca_Training (LABSI-01 - v1, 10/10/19 1:09 PM - 529 bytes)
Name DataCuaca_Testing
Location /Local Repository/DataCuaca_Testing
Previous
Finish
Cancel
Close this dialog and discard all changes. (Escape)
Repository
Import Data
Operators
Search for Operators
Data Access (53)
Blending (79)
Cleansing (26)
Modeling (156)
Scoring (12)
Validation (29)
Get more operators from the Marketplace

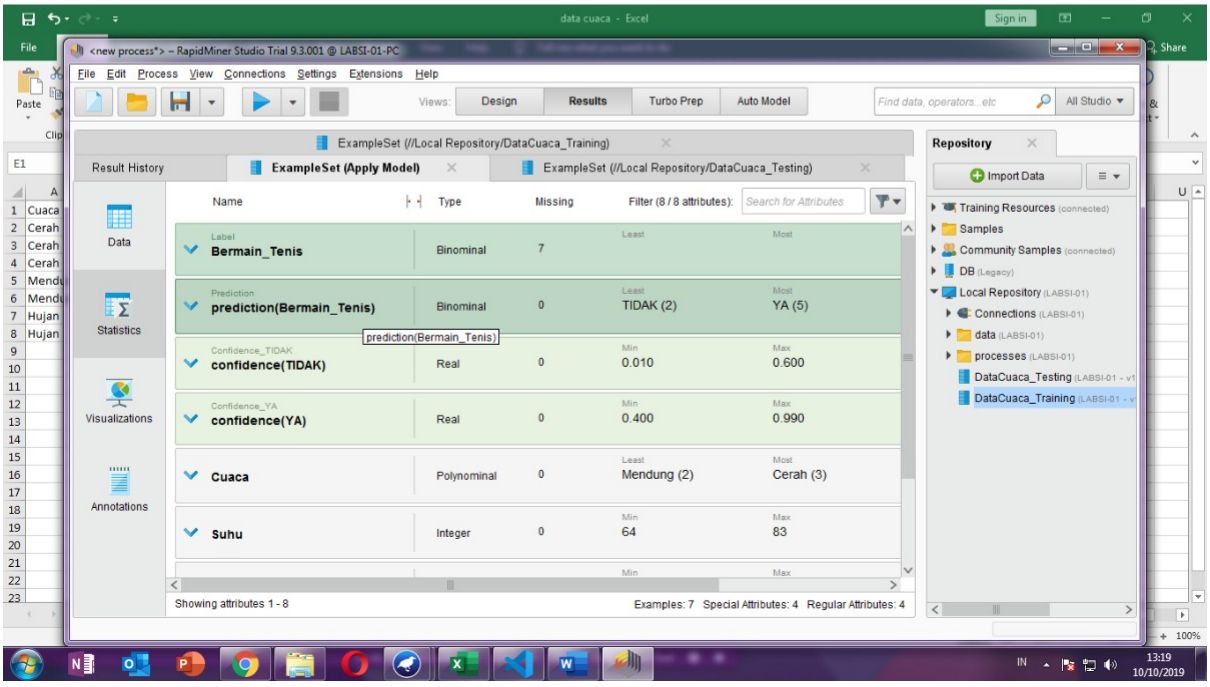

data cuaca - Excel
ExampleSet (//Local Repository/DataCuaca_Training)
ExampleSet (//Local Repository/DataCuaca_Testing)
Result History
Open in
Turbo Prep
Auto Model
Filter (7 / 7 examples):
all
Row No.
Bermain_Te...
Cuaca
Suhu
Kelembaban...
Berangin
1 ? Cerah 75 65 TIDAK
2 ? Cerah 80 68 YA
3 ? Cerah 83 87 YA
4 ? Mendung 70 96 TIDAK
5 ? Mendung 68 81 TIDAK
6 ? Hujan 65 75 YA
7 ? Hujan 64 85 YA
Data
Statistics
Visualizations
Annotations
ExampleSet (7 examples, 1 special attribute, 4 regular attributes)
Repository
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB (Legacy)
Local Repository (LABSI-01)
Connections (LABSI-01)
data (LABSI-01)
processes (LABSI-01)
DataCuaca_Testing (LABSI-01 - v1)
DataCuaca_Training (LABSI-01 - v1)

14.


data cuaca - Excel
<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-01-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Repository
Import Data
Process
Retrieve DataCuaca_...
Operators
Search for Operators
Data Access (53)
Blending (79)
Cleansing (26)
Modeling (156)
Scoring (12)
Validation (29)
Get more operators from the Marketplace
Parameters
logverbosity
init
logfile
Show advanced parameters
Change compatibility (9.3.001)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds

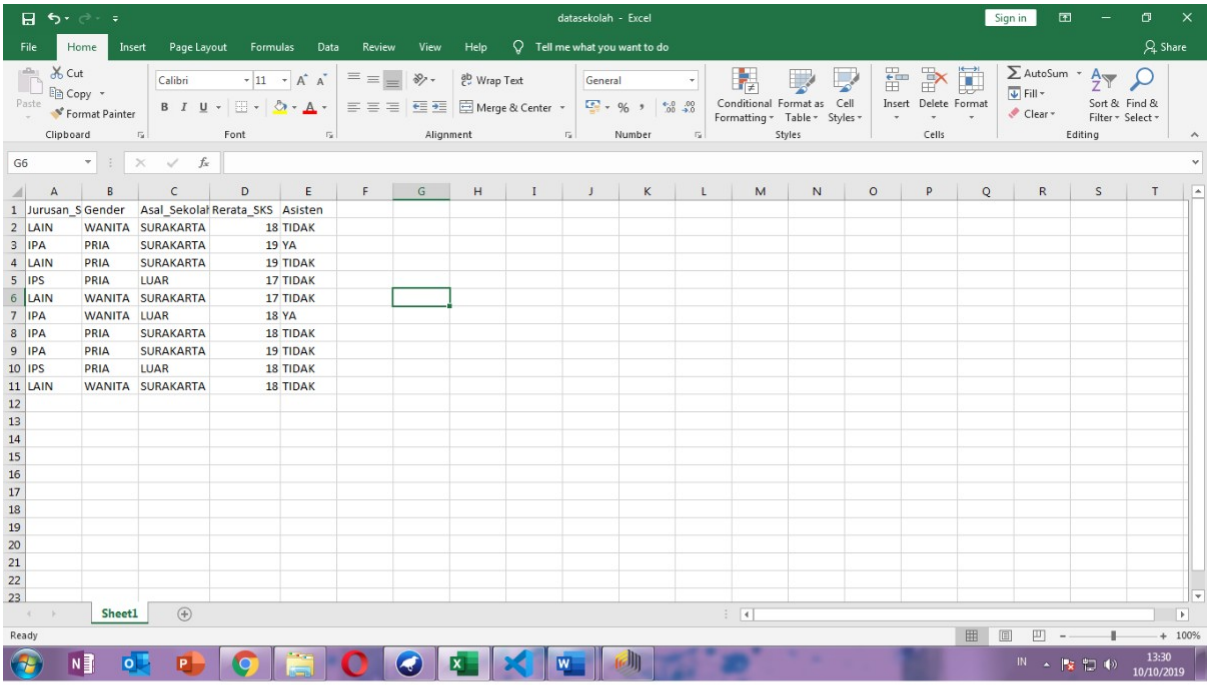

data cuaca - Excel
<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-01-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Repository
Import Data
Process
Retrieve DataCuaca_...
Naive Bayes
Apply Model
Operators
apply Model
Modeling (1)
Time Series (1)
Forecasting (1)
Apply Forecast
Scoring (1)
Apply Model
No results were found.
Parameters
logverbosity
init
logfile
Show advanced parameters
Change compatibility (9.3.001)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds


data cuaca - Excel
<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-01-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/DataCuaca_Training)
Result History
ExampleSet (Apply Model)
ExampleSet (//Local Repository/DataCuaca_Testing)
Data
Statistics
Visualizations
Annotations
Open in Turbo Prep Auto Model
Filter (7 / 7 examples): all
Bermain_Te... prediction(B... confidence(... confidence(... Cuaca Suhu Kelembaban... Berangin
? YA 0.148 0.852 Cerah 75 65 TIDAK
? YA 0.343 0.657 Cerah 80 68 YA
? TIDAK 0.584 0.416 Cerah 83 87 YA
? YA 0.018 0.982 Mendung 70 96 TIDAK
? YA 0.010 0.990 Mendung 68 81 TIDAK
? YA 0.469 0.531 Hujan 65 75 YA
? TIDAK 0.600 0.400 Hujan 64 85 YA
ExampleSet (7 examples, 4 special attributes, 4 regular attributes)
Repository
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB (Legacy)
Local Repository (LABSI-01)
Connections (LABSI-01)
data (LABSI-01)
processes (LABSI-01)
DataCuaca_Testing (LABSI-01 - v1)
DataCuaca_Training (LABSI-01 - v1)
13:19
10/10/2019

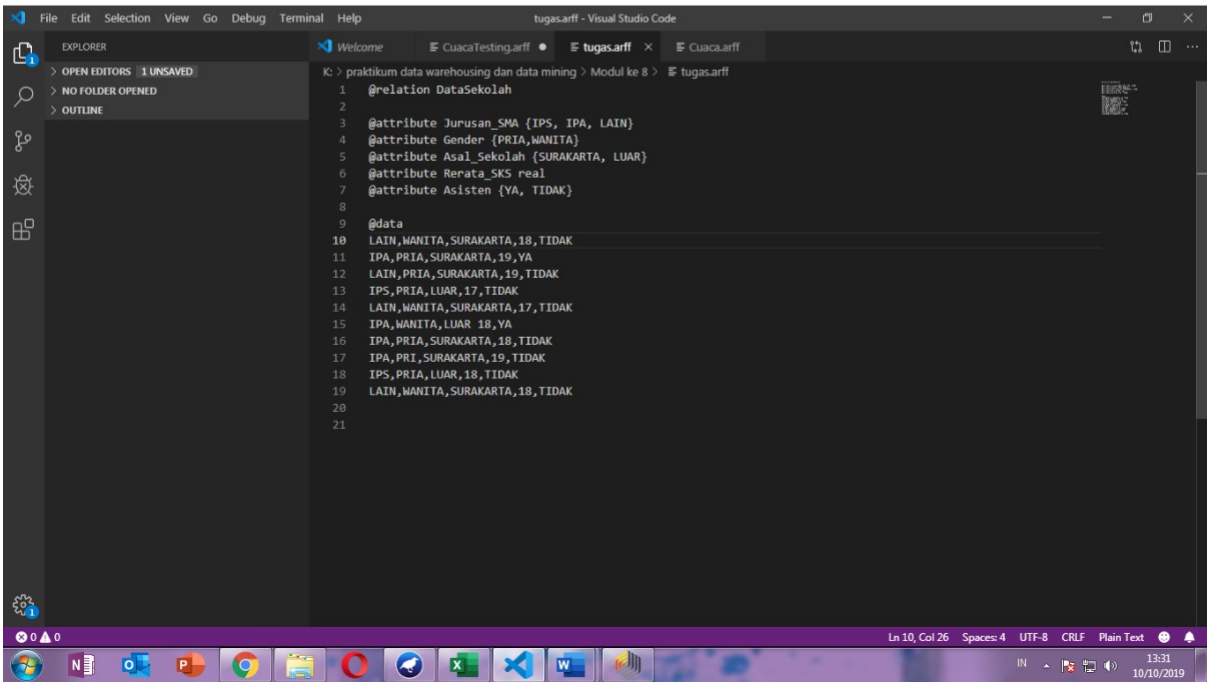

data cuaca - Excel
<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-01-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
ExampleSet (//Local Repository/DataCuaca_Training)
Result History
ExampleSet (Apply Model)
ExampleSet (//Local Repository/DataCuaca_Testing)
Data
Statistics
Visualizations
Annotations
Name Type Missing Filter (8 / 8 attributes): Search for Attributes
Label Bermain_Tenis Binominal 7
Prediction prediction(Bermain_Tenis) Binominal 0 Least TIDAK (2) Most YA (5)
prediction(Bermain_Tenis)
Confidence_TIDAK confidence(TIDAK) Real 0 Min 0.010 Max 0.600
Confidence_YA confidence(YA) Real 0 Min 0.400 Max 0.990
Cuaca Polynominal 0 Least Mendung (2) Most Cerah (3)
Suhu Integer 0 Min 64 Max 83
Showing attributes 1 - 8
Examples: 7 Special Attributes: 4 Regular Attributes: 4
Repository
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB (Legacy)
Local Repository (LABSI-01)
Connections (LABSI-01)
data (LABSI-01)
processes (LABSI-01)
DataCuaca_Testing (LABSI-01 - v1)
DataCuaca_Training (LABSI-01 - v1)
13:19
10/10/2019

TUGAS

1.

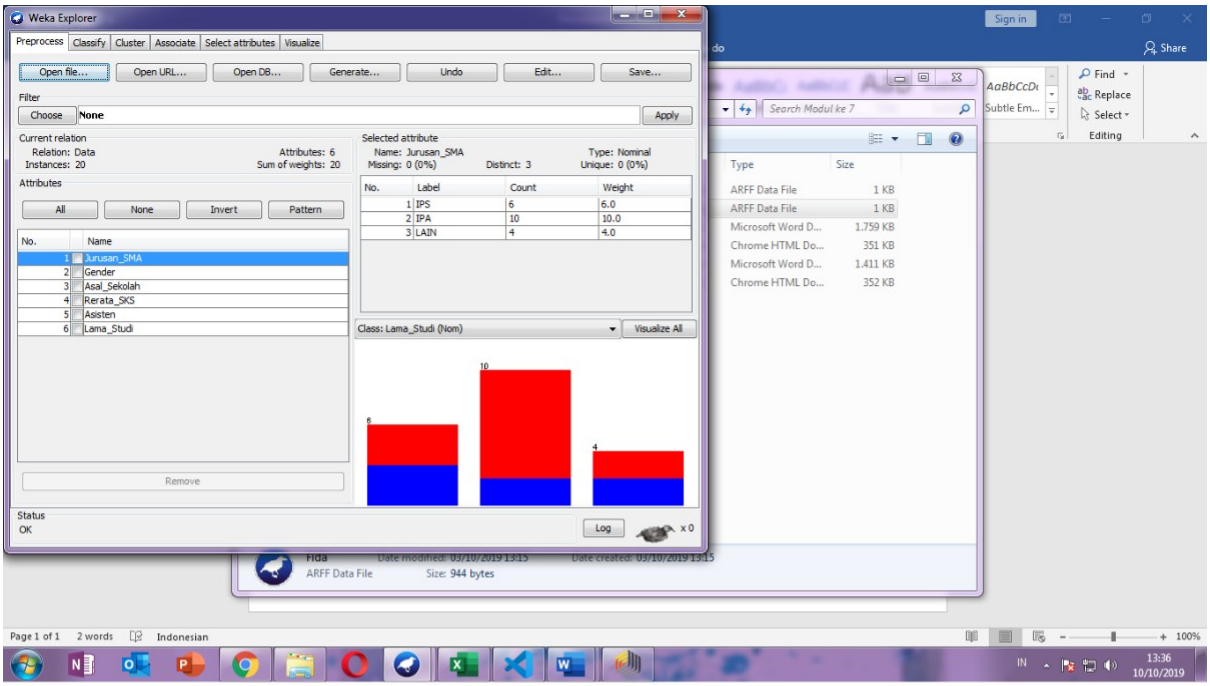


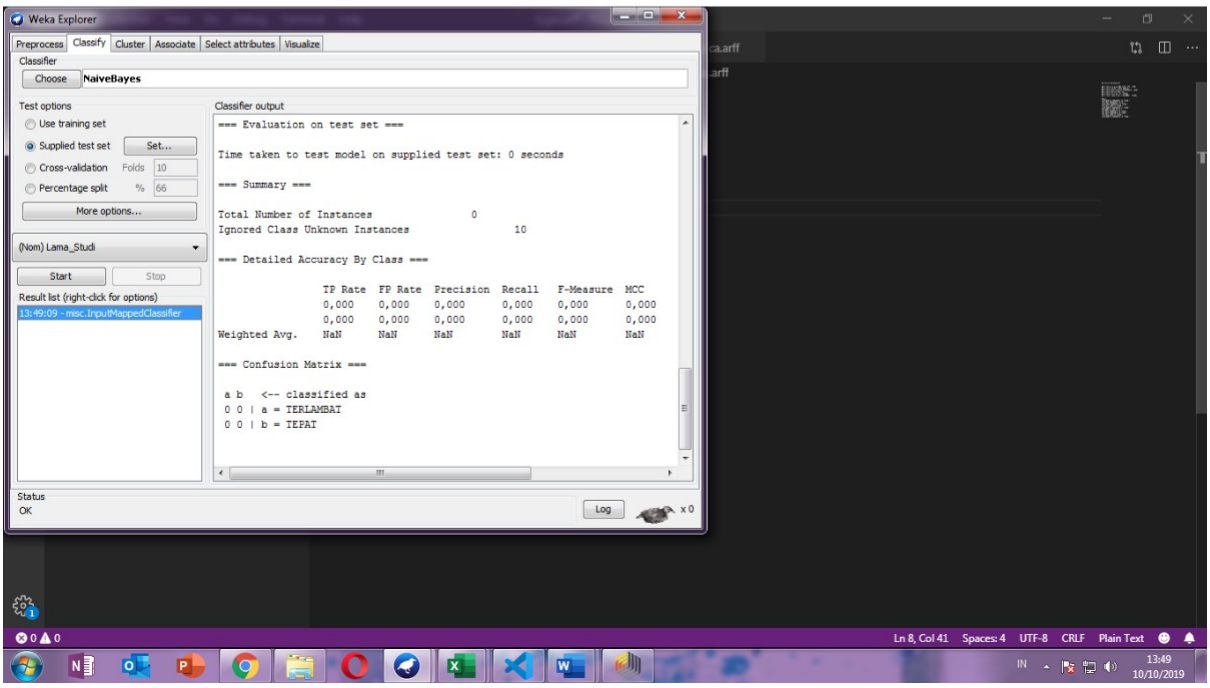
Jurusan_S	Gender	Asal_Sekolah	Rerata_SKS	Asisten
LAIN	WANITA	SURAKARTA	18	TIDAK
IPA	PRIA	SURAKARTA	19	YA
LAIN	PRIA	SURAKARTA	19	TIDAK
IPS	PRIA	LUAR	17	TIDAK
LAIN	WANITA	SURAKARTA	17	TIDAK
IPA	WANITA	LUAR	18	YA
IPA	PRIA	SURAKARTA	18	TIDAK
IPA	PRIA	SURAKARTA	19	TIDAK
IPS	PRIA	LUAR	18	TIDAK
LAIN	WANITA	SURAKARTA	18	TIDAK

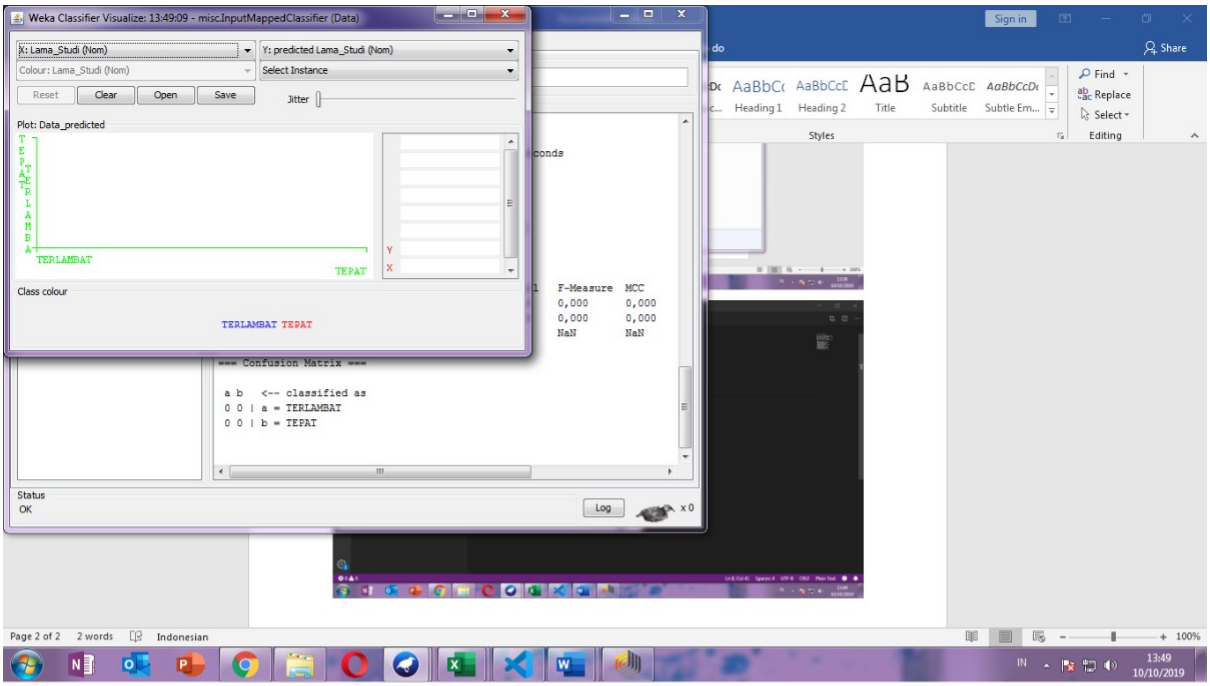


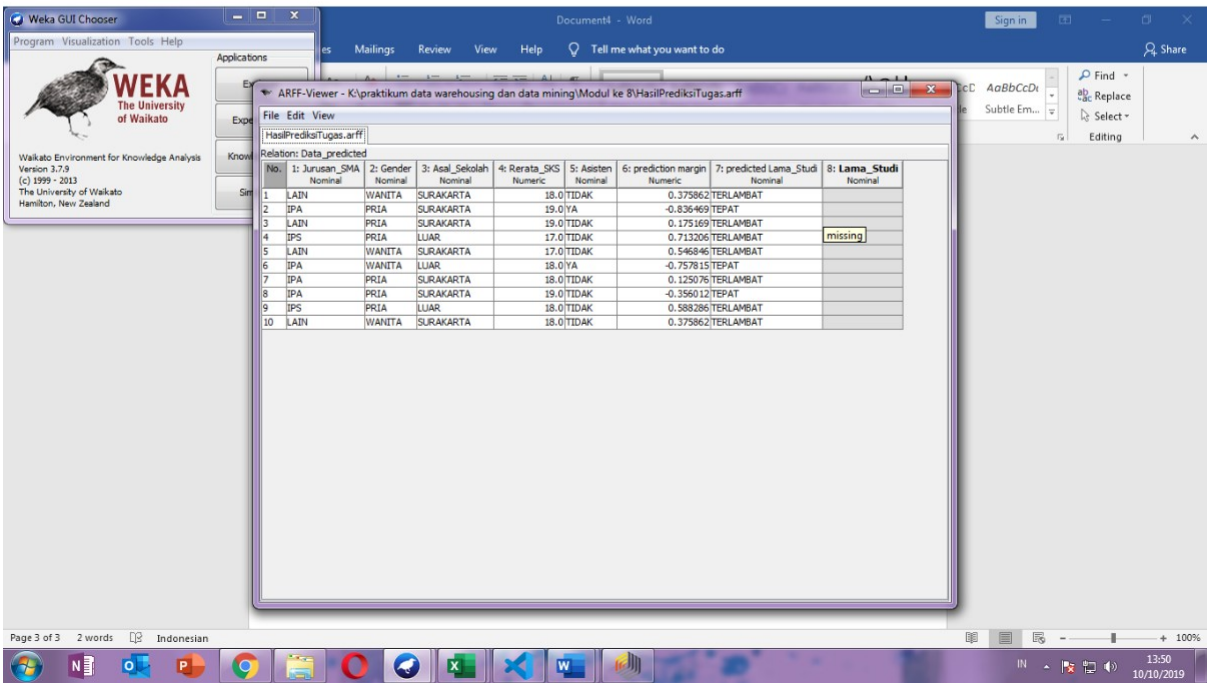
```
@relation DataSekolah

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

@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,PRI,SURAKARTA,19,TIDAK
IPS,PRIA,LUAR,18,TIDAK
LAIN,WANITA,SURAKARTA,18,TIDAK
```

2.

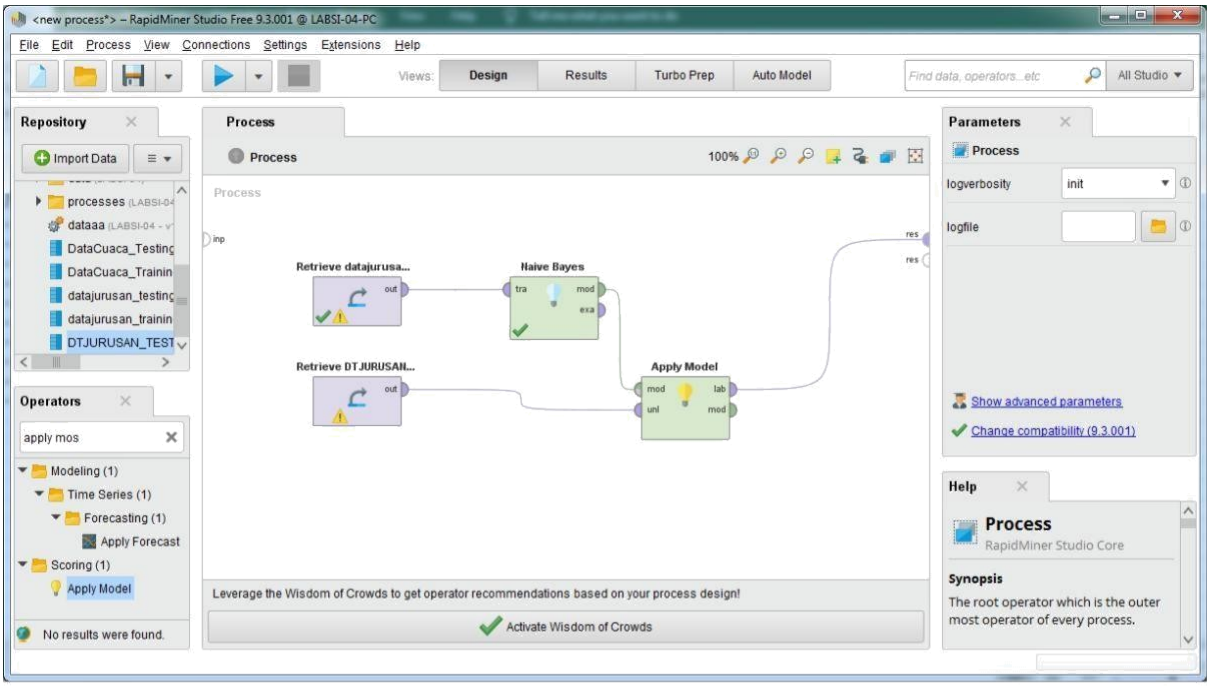

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Open file...
Open URL...
Open DB...
Generate...
Undo
Edit...
Save...
Filter
Choose
None
Apply
Current relation
Relation: Data
Instances: 20
Attributes: 6
Sum of weights: 20
Selected attribute
Name: Jurusan_SMA
Missing: 0 (0%)
Distinct: 3
Type: Nominal
Unique: 0 (0%)
Attributes
All
None
Invert
Pattern
No.
Name
1 Jurusan_SMA
2 Gender
3 Asal_Sekolah
4 Rerata_SKS
5 Asisten
6 Lama_Studi
No.
Label
Count
Weight
1 IPS 6 6.0
2 IPA 10 10.0
3 LAIN 4 4.0
Class: Lama_Studi (Nom)
Visualize All
Remove
Status
OK
Log
x 0
Sign in
Share
Find
Replace
Select
Editing
Search Modul ke 7
Type
Size
ARFF Data File 1 KB
ARFF Data File 1 KB
Microsoft Word D... 1.759 KB
Chrome HTML Do... 351 KB
Microsoft Word D... 1.411 KB
Chrome HTML Do... 352 KB
Fida
ARFF Data File
Size: 944 bytes
Page 1 of 1
2 words
Indonesian
100%
IN
13:36
10/10/2019

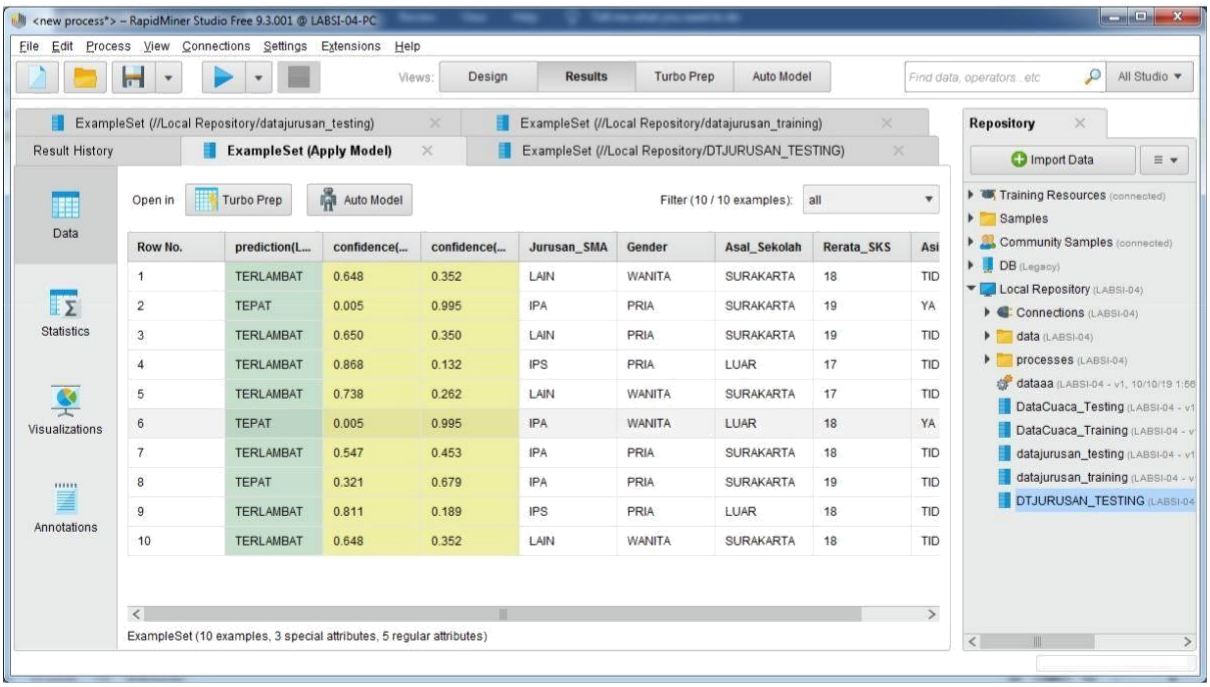

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
NaiveBayes
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
(Nom) Lama_Studi
Start
Stop
Result list (right-click for options)
13:49:09 - misc.InputMappedClassifier
Classifier output
=== Evaluation on test set ===
Time taken to test model on supplied test set: 0 seconds
=== Summary ===
Total Number of Instances 0
Ignored Class Unknown Instances 10
=== Detailed Accuracy By Class ===
TP Rate FP Rate Precision Recall F-Measure MCC
0,000 0,000 0,000 0,000 0,000 0,000
0,000 0,000 0,000 0,000 0,000 0,000
Weighted Avg. NaN NaN NaN NaN NaN NaN
=== Confusion Matrix ===
a b <-- classified as
0 0 | a = TERLAMBAT
0 0 | b = TEPAT
Status
OK
Log
x 0
Ln 8, Col 41
Spaces: 4
UTF-8
CRLF
Plain Text
IN
13:49
10/10/2019

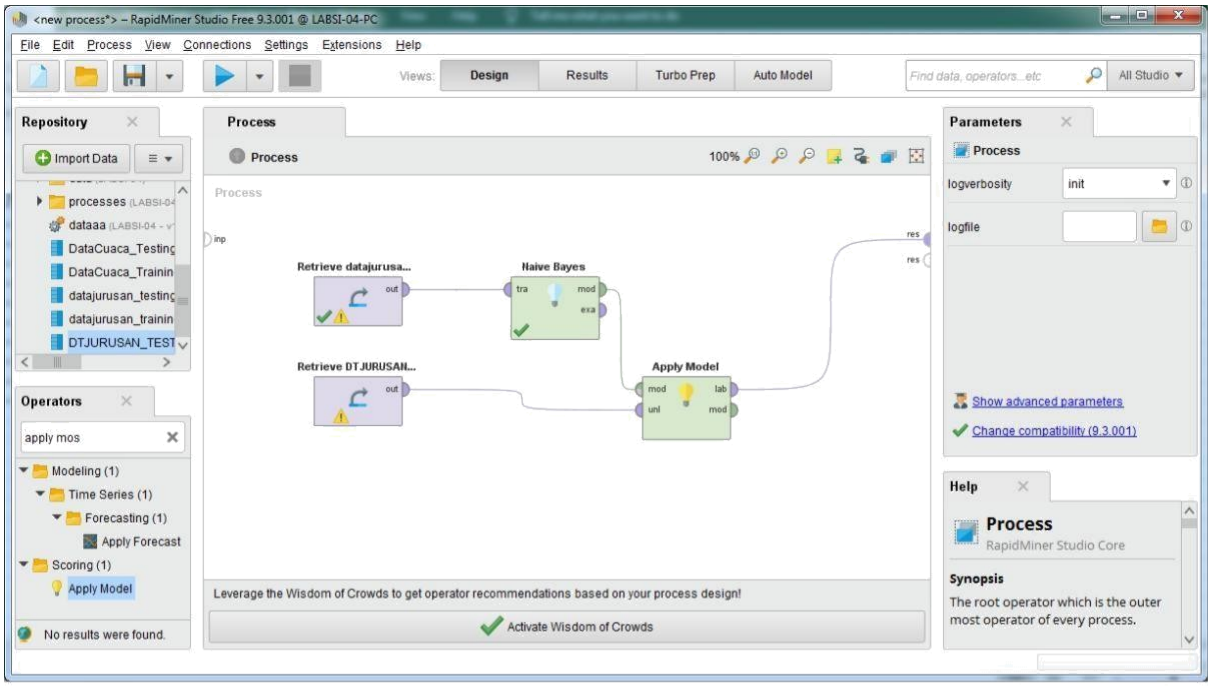

Weka Classifier Visualize: 13:49:09 - misc.InputMappedClassifier (Data)
X: Lama_Studi (Nom)
Y: predicted Lama_Studi (Nom)
Colour: Lama_Studi (Nom)
Select Instance
Reset
Clear
Open
Save
Jitter
Plot: Data_predicted
TERLAMBAT
TEPAT
Class colour
TERLAMBAT TEPAT
F-Measure MCC
0,000 0,000
0,000 0,000
NaN NaN
=== Confusion Matrix ===
a b <-- classified as
0 0 | a = TERLAMBAT
0 0 | b = TEPAT
Status
OK
Log
x 0
Page 2 of 2
2 words
Indonesian
100%
13:49
10/10/2019

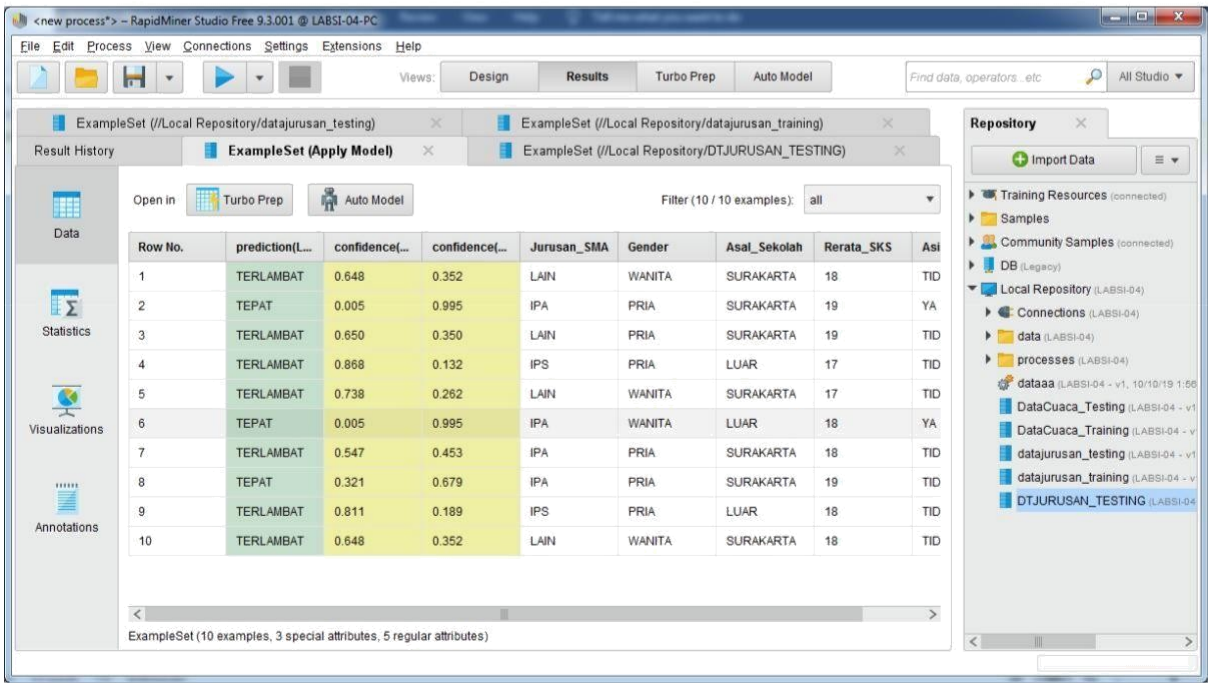

Weka GUI Chooser
Program Visualization Tools Help
WEKA
The University of Waikato
Waikato Environment for Knowledge Analysis
Version 3.7.9
(c) 1999 - 2013
The University of Waikato
Hamilton, New Zealand
Applications
ARFF-Viewer - K:\praktikum data warehousing dan data mining\Modul ke 8\HasilPrediksiTugas.arff
File Edit View
HasilPrediksiTugas.arff
Relation: Data_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 missing
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
Page 3 of 3
2 words
Indonesian
100%
13:50
10/10/2019

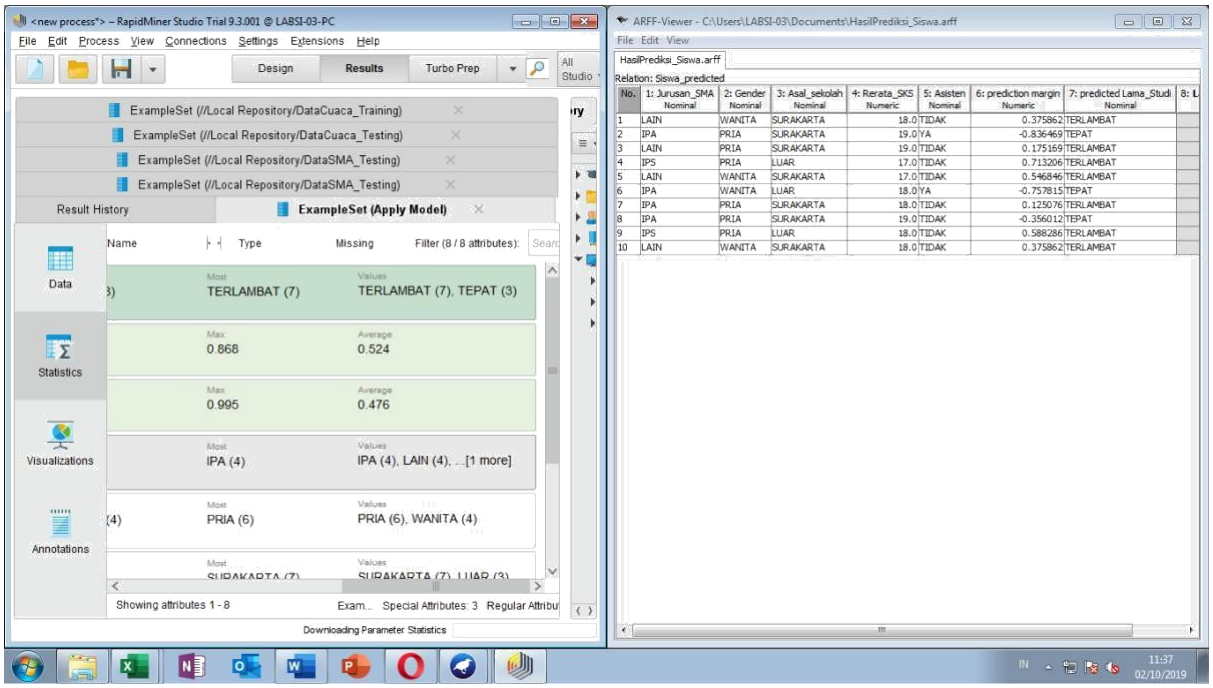
3.


<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
Repository
Import Data
processes (LABSI-04
dataaa (LABSI-04 - v
DataCuaca_Testing
DataCuaca_Trainin
datajurusan_testing
datajurusan_trainin
DTJURUSAN_TEST
Operators
apply mos
Modeling (1)
Time Series (1)
Forecasting (1)
Apply Forecast
Scoring (1)
Apply Model
No results were found.
Process
Process
100%
Process
inp
Retrieve datajurusa...
out
Naive Bayes
tra
mod
exa
Retrieve DTJURUSAN...
out
Apply Model
mod
lab
unl
mod
res
res
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity
init
logfile
Show advanced parameters
Change compatibility (9.3.001)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.


<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
ExampleSet (//Local Repository/datajurusan_testing)
ExampleSet (//Local Repository/datajurusan_training)
Result History
ExampleSet (Apply Model)
ExampleSet (//Local Repository/DTJURUSAN_TESTING)
Data
Statistics
Visualizations
Annotations
Open in
Turbo Prep
Auto Model
Filter (10 / 10 examples):
all
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
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 - v
datajurusan_testing (LABSI-04 - v1
datajurusan_training (LABSI-04 - v
DTJURUSAN_TESTING (LABSI-04


<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
Repository
Import Data
processes (LABSI-04
dataaa (LABSI-04 - v
DataCuaca_Testing
DataCuaca_Trainin
datajurusan_testing
datajurusan_trainin
DTJURUSAN_TEST
Operators
apply mos
Modeling (1)
Time Series (1)
Forecasting (1)
Apply Forecast
Scoring (1)
Apply Model
No results were found.
Process
Process
100%
Process
Retrieve datajurusa...
Naive Bayes
Retrieve DTJURUSAN...
Apply Model
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity
init
logfile
Show advanced parameters
Change compatibility (9.3.001)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.


<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
ExampleSet (//Local Repository/datajurusan_testing)
ExampleSet (//Local Repository/datajurusan_training)
Result History
ExampleSet (Apply Model)
ExampleSet (//Local Repository/DTJURUSAN_TESTING)
Data
Statistics
Visualizations
Annotations
Open in Turbo Prep Auto Model
Filter (10 / 10 examples): all
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
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 - v
datajurusan_testing (LABSI-04 - v1
datajurusan_training (LABSI-04 - v
DTJURUSAN_TESTING (LABSI-04



No 4

Rerata confidence TEPAT = 0.476

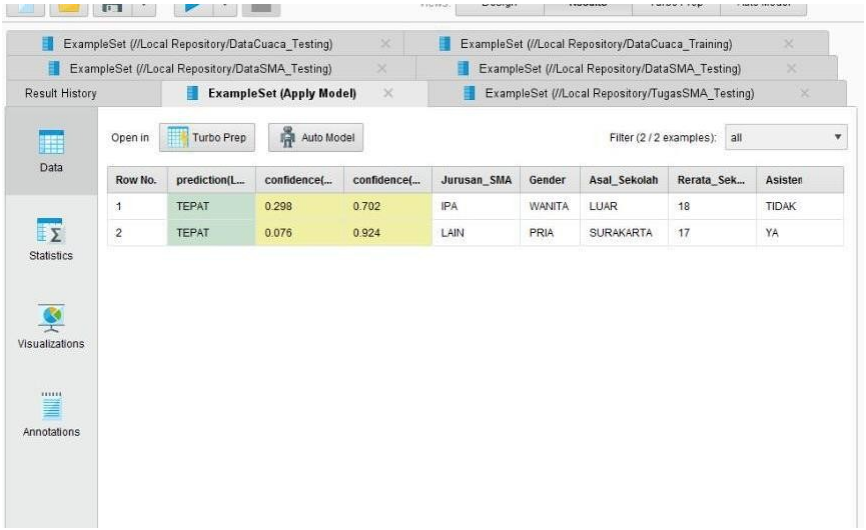
Rerata confodence TERLAMBAT = 0.524

No 5

-lulus TEPAT = 3

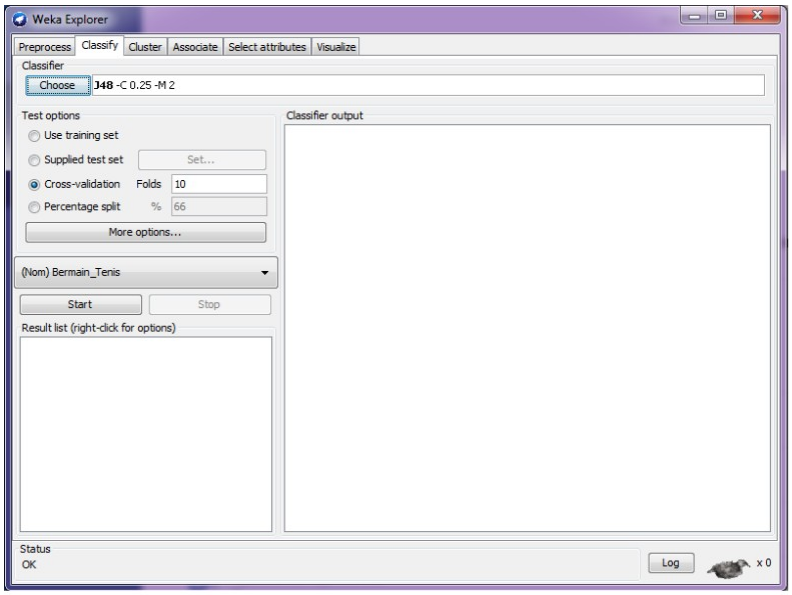
-lulus TERLAMBAT = 7

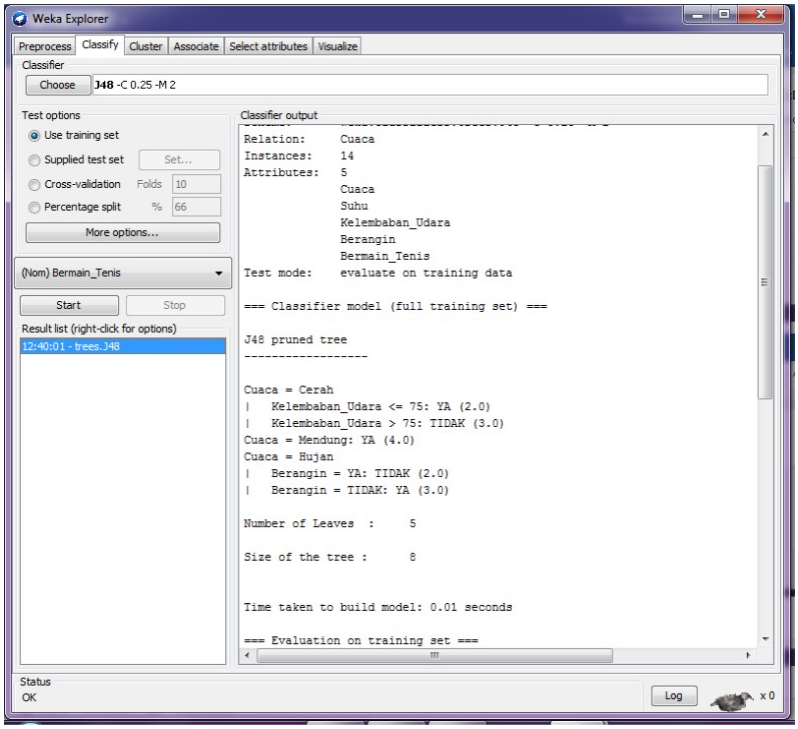
nomor 6 dan 7

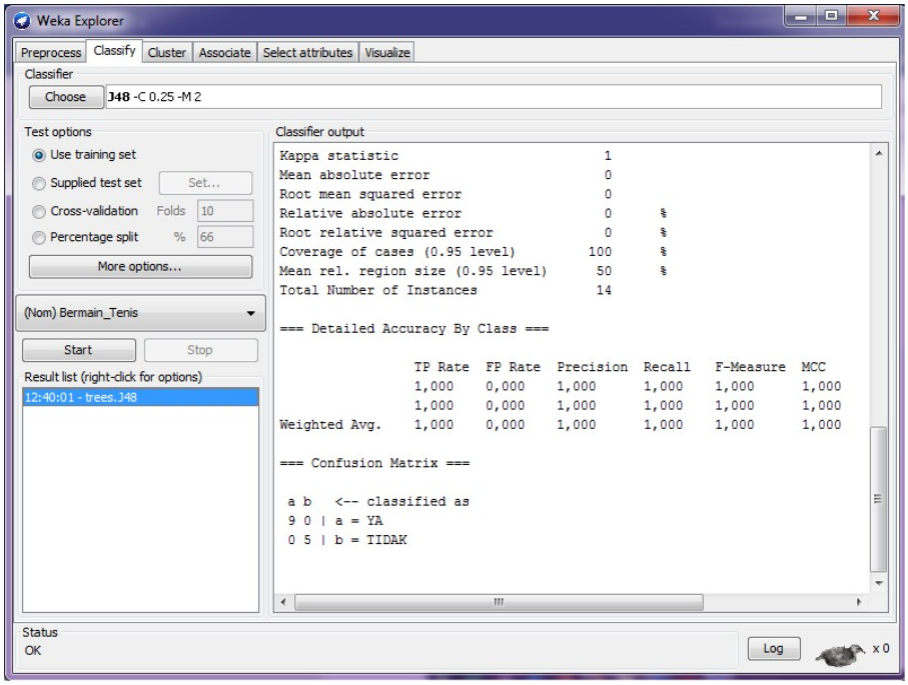

ExampleSet (//Local Repository/DataCuaca_Testing)
ExampleSet (//Local Repository/DataCuaca_Training)
ExampleSet (//Local Repository/DataSMA_Testing)
ExampleSet (//Local Repository/DataSMA_Testing)
Result History
ExampleSet (Apply Model)
ExampleSet (//Local Repository/TugasSMA_Testing)
Data
Statistics
Visualizations
Annotations
Open in
Turbo Prep
Auto Model
Filter (2 / 2 examples):
all
Row No. | prediction(L... | confidence(... | confidence(... | Jurusan_SMA | Gender | Asal_Sekolah | Rerata_Sek... | Asister
1 | TEPAT | 0.298 | 0.702 | IPA | WANITA | LUAR | 18 | TIDAK
2 | TEPAT | 0.076 | 0.924 | LAIN | PRIA | SURAKARTA | 17 | YA

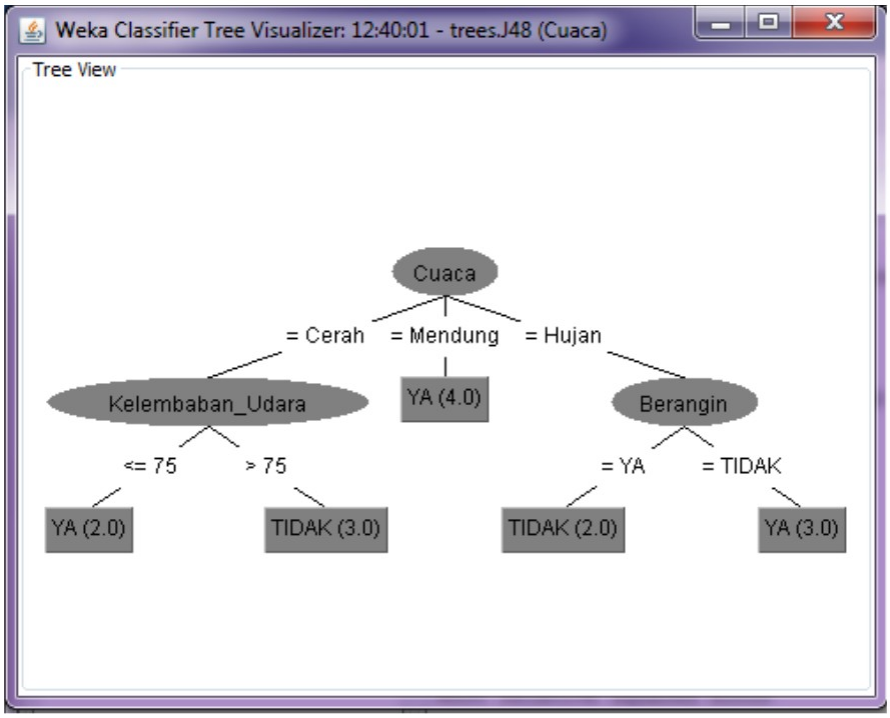
MODUL 9

WEKA

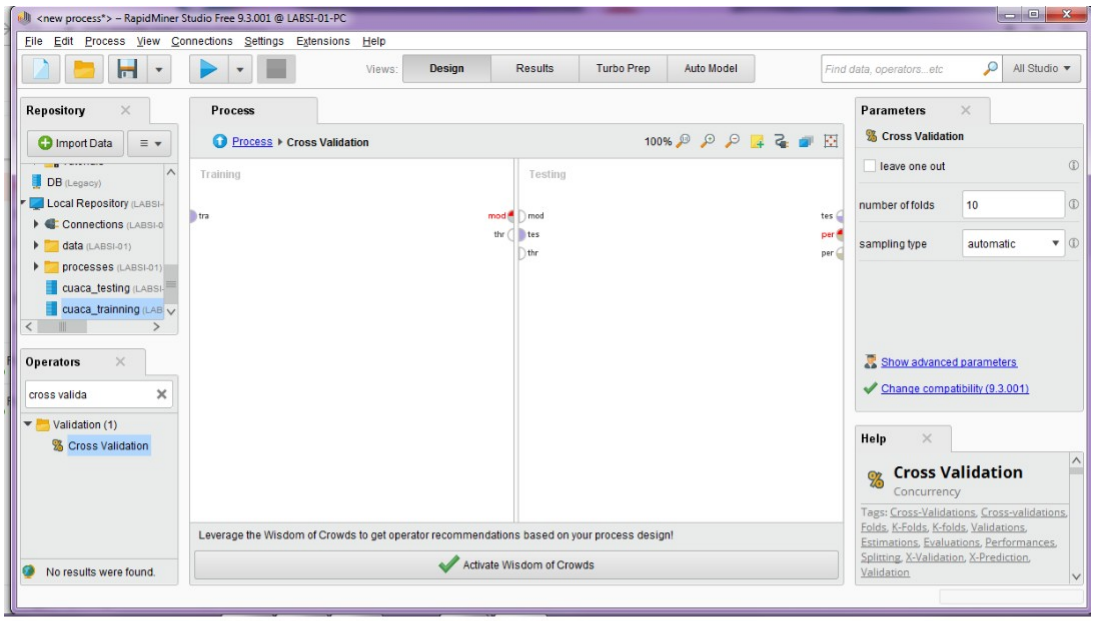

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
J48 -C 0.25 -M 2
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
Classifier output
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
Status
OK
Log
x 0

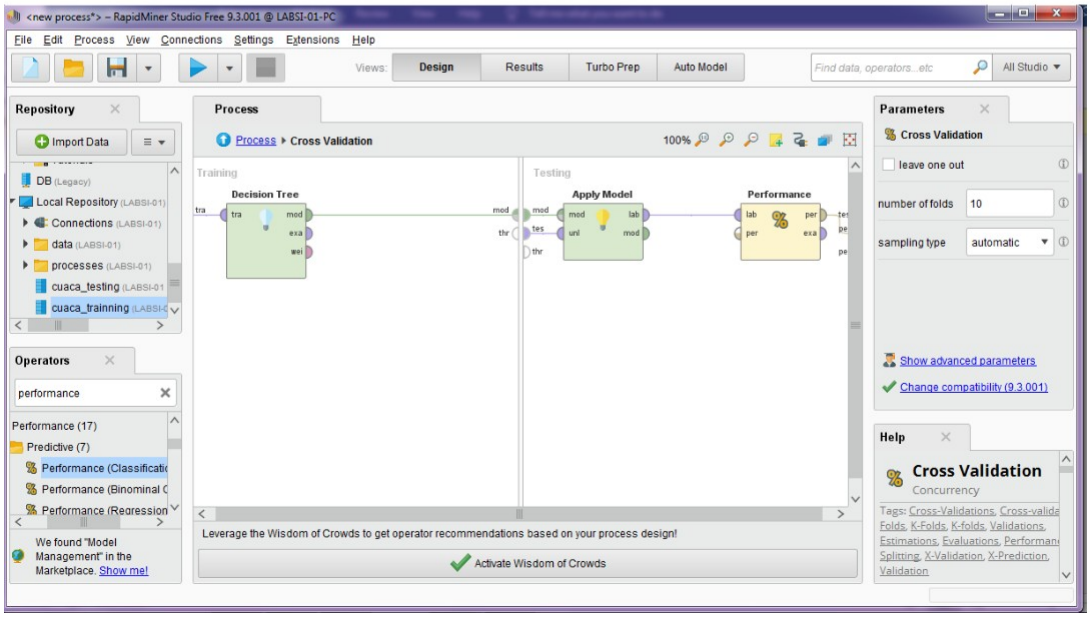

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
J48 -C 0.25 -M 2
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
Classifier output
Relation: Cuaca
Instances: 14
Attributes: 5
Cuaca
Suhu
Kelembaban_Udara
Berangin
Bermain_Tenis
Test mode: evaluate on training data
=== Classifier model (full training set) ===
J48 pruned tree
Cuaca = Cerah
| Kelembaban_Udara <= 75: YA (2.0)
| Kelembaban_Udara > 75: TIDAK (3.0)
Cuaca = Mendung: YA (4.0)
Cuaca = Hujan
| Berangin = YA: TIDAK (2.0)
| Berangin = TIDAK: YA (3.0)
Number of Leaves : 5
Size of the tree : 8
Time taken to build model: 0.01 seconds
=== Evaluation on training set ===
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
12:40:01 - trees.J48
Status
OK
Log
x 0

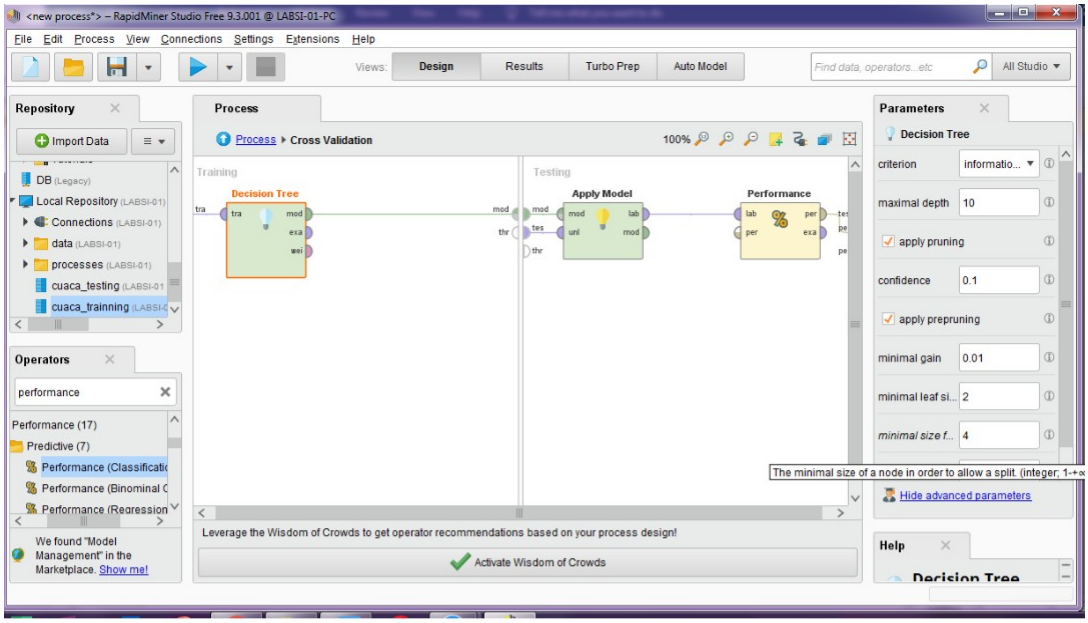

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
J48 -C 0.25 -M 2
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
12:40:01 - trees.J48
Classifier output
Kappa statistic 1
Mean absolute error 0
Root mean squared error 0
Relative absolute error 0 %
Root relative squared error 0 %
Coverage of cases (0.95 level) 100 %
Mean rel. region size (0.95 level) 50 %
Total Number of Instances 14
=== Detailed Accuracy By Class ===
TP Rate FP Rate Precision Recall F-Measure MCC
1,000 0,000 1,000 1,000 1,000 1,000
1,000 0,000 1,000 1,000 1,000 1,000
Weighted Avg. 1,000 0,000 1,000 1,000 1,000 1,000
=== Confusion Matrix ===
a b <-- classified as
9 0 | a = YA
0 5 | b = TIDAK
Status
OK
Log
x 0

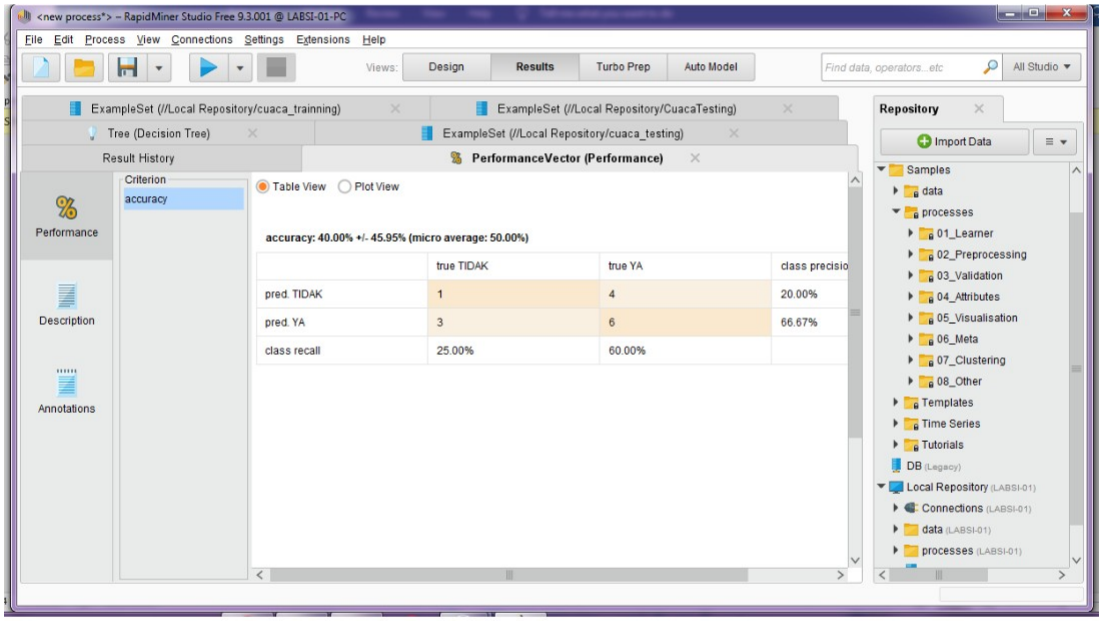

Weka Classifier Tree Visualizer: 12:40:01 - trees.J48 (Cuaca)
Tree View
Cuaca
= Cerah
= Mendung
= Hujan
Kelembaban_Udara
YA (4.0)
Berangin
<= 75
> 75
= YA
= TIDAK
YA (2.0)
TIDAK (3.0)
TIDAK (2.0)
YA (3.0)

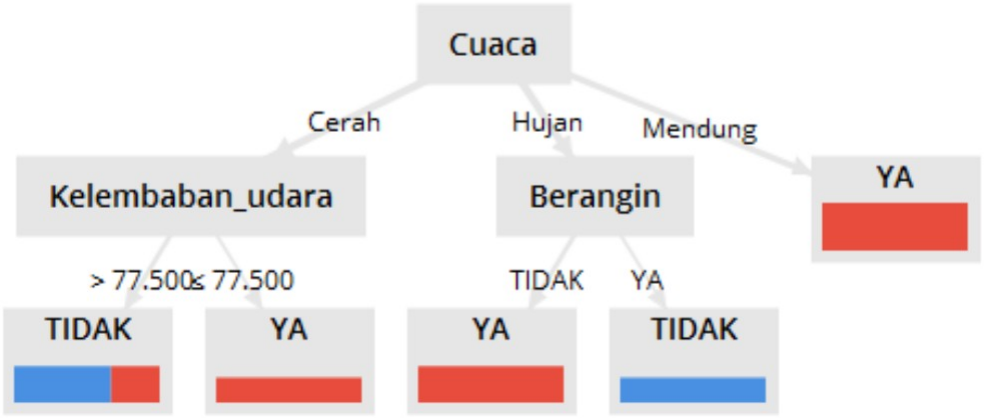
RAPID MINER


<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-01-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Repository
Import Data
DB (Legacy)
Local Repository
Connections
data
processes
cuaca_testing
cuaca_trainning
Operators
cross valida
Validation (1)
Cross Validation
No results were found.
Process
Process ▸ Cross Validation
100%
Training
Testing
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Cross Validation
leave one out
number of folds
10
sampling type
automatic
Show advanced parameters
Change compatibility (9.3.001)
Help
Cross Validation
Concurrency
Tags: Cross-Validations, Cross-validations, Folds, K-Folds, K-folds, Validations, Estimations, Evaluations, Performances, Splitting, X-Validation, X-Prediction, Validation


<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-01-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Repository
Import Data
DB (Legacy)
Local Repository
Connections
data
processes
cuaca_testing
cuaca_trainning
Operators
performance
Performance (17)
Predictive (7)
Performance (Classificatio
Performance (Binominal C
Performance (Regression
We found "Model Management" in the Marketplace. Show me!
Process
Process ▸ Cross Validation
100%
Training
Testing
Decision Tree
Apply Model
Performance
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Cross Validation
leave one out
number of folds
10
sampling type
automatic
Show advanced parameters
Change compatibility (9.3.001)
Help
Cross Validation
Concurrency
Tags: Cross-Validations, Cross-valida
Folds, K-Folds, K-folds, Validations,
Estimations, Evaluations, Performan
Splitting, X-Validation, X-Prediction,
Validation


<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-01-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Repository
Import Data
DB (Legacy)
Local Repository (LABSI-01)
Connections (LABSI-01)
data (LABSI-01)
processes (LABSI-01)
cuaca_testing (LABSI-01
cuaca_trainning (LABSI-0
Operators
performance
Performance (17)
Predictive (7)
Performance (Classificatio
Performance (Binominal C
Performance (Regression
We found "Model Management" in the Marketplace. Show me!
Process
Process ▸ Cross Validation
100%
Training
Testing
Decision Tree
Apply Model
Performance
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Decision Tree
criterion
informatio...
maximal depth
10
apply pruning
confidence
0.1
apply prepruning
minimal gain
0.01
minimal leaf si...
2
minimal size f...
4
The minimal size of a node in order to allow a split. (integer; 1-+∞
Hide advanced parameters
Help
Decision Tree


<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-01-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/cuaca_trainning)
ExampleSet (//Local Repository/CuacaTesting)
Tree (Decision Tree)
ExampleSet (//Local Repository/cuaca_testing)
Result History
PerformanceVector (Performance)
Performance
Description
Annotations
Criterion
accuracy
Table View
Plot View
accuracy: 40.00% +/- 45.95% (micro average: 50.00%)
true TIDAK
true YA
class precisio
pred. TIDAK
1
4
20.00%
pred. YA
3
6
66.67%
class recall
25.00%
60.00%
Repository
Import Data
Samples
data
processes
01_Learner
02_Preprocessing
03_Validation
04_Attributes
05_Visualisation
06_Meta
07_Clustering
08_Other
Templates
Time Series
Tutorials
DB (Legacy)
Local Repository (LABSI-01)
Connections (LABSI-01)
data (LABSI-01)
processes (LABSI-01)

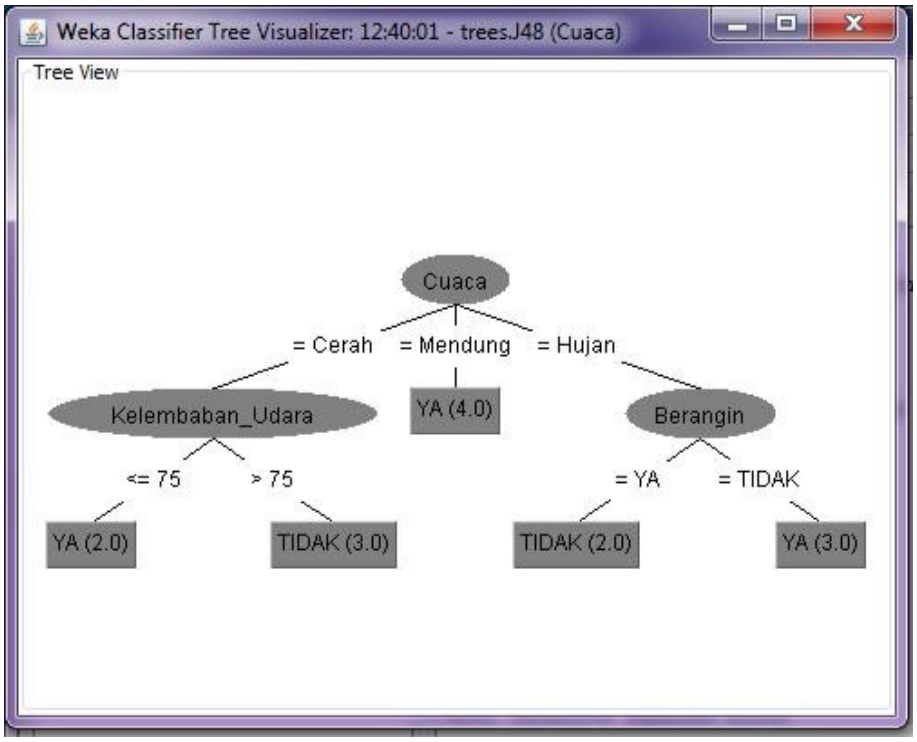

Cuaca
Cerah
Hujan
Mendung
Kelembaban_udara
Berangin
YA
> 77.500
≤ 77.500
TIDAK
YA
TIDAK
YA
TIDAK
YA

TUGAS

1.

Cuaca	Suhu	Kelembaban_udara	berangim	Bermain_tenis
Cerah	75	65	TIDAK	YA
Cerah	80	68	YA	YA
Cerah	83	87	YA	TIDAK
Mendung	70	96	TIDAK	YA
Mendung	68	81	TIDAK	YA
Hujan	65	75	TIDAK	YA
Hujan	64	85	YA	TIDAK

2. A.



- Number of Leaves : 5

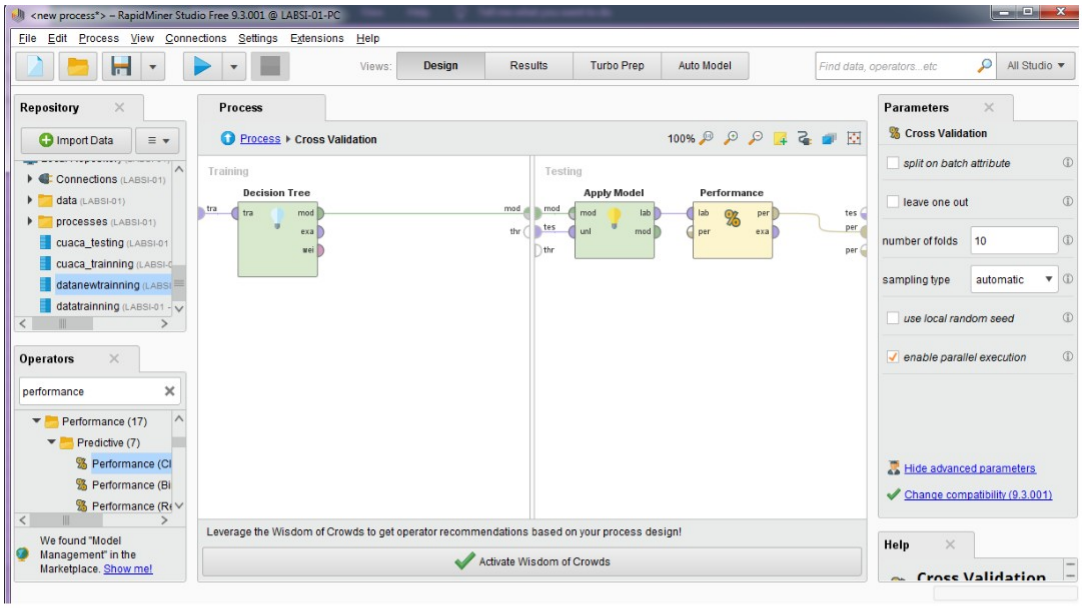
- Size of the tree : 8

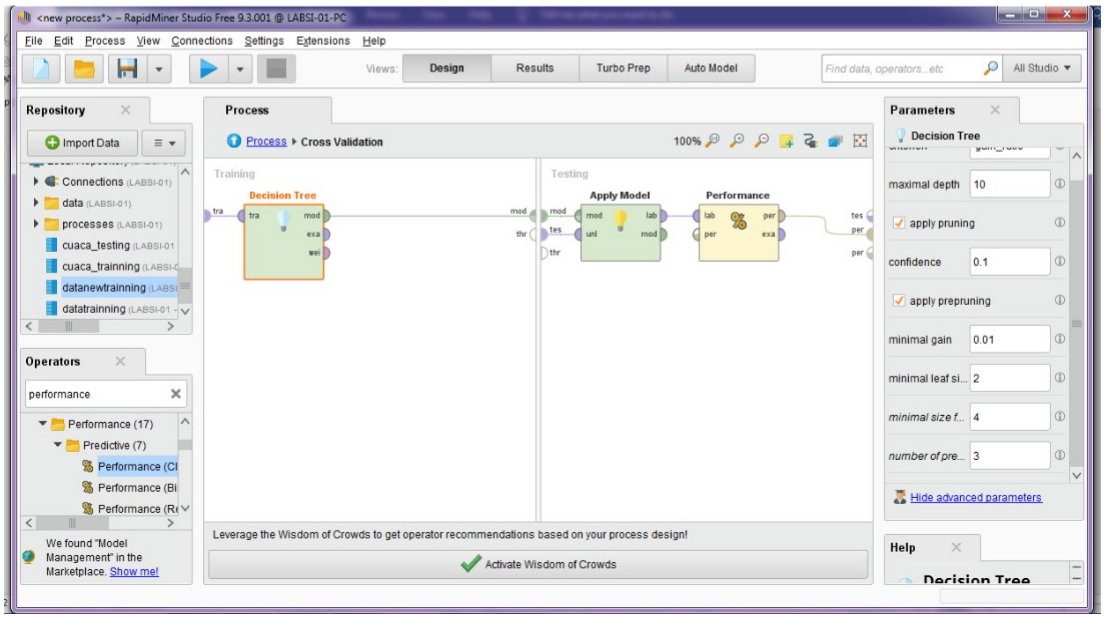
- Time taken to build model: 0.01 seconds

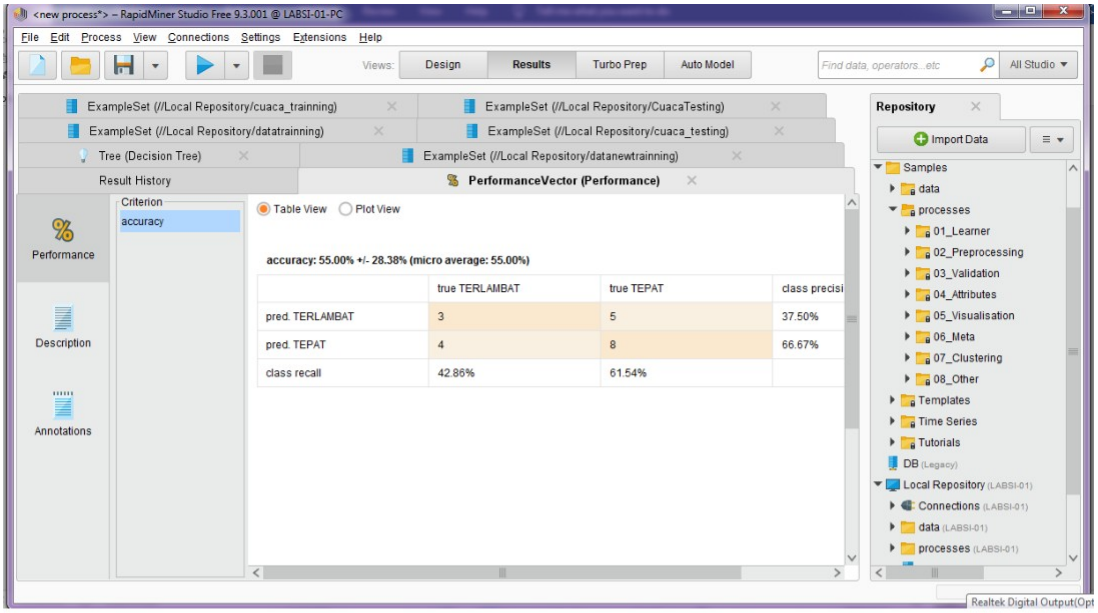
- Correctly Classified Instances 100%
- Incorrectly Classified Instances 0%

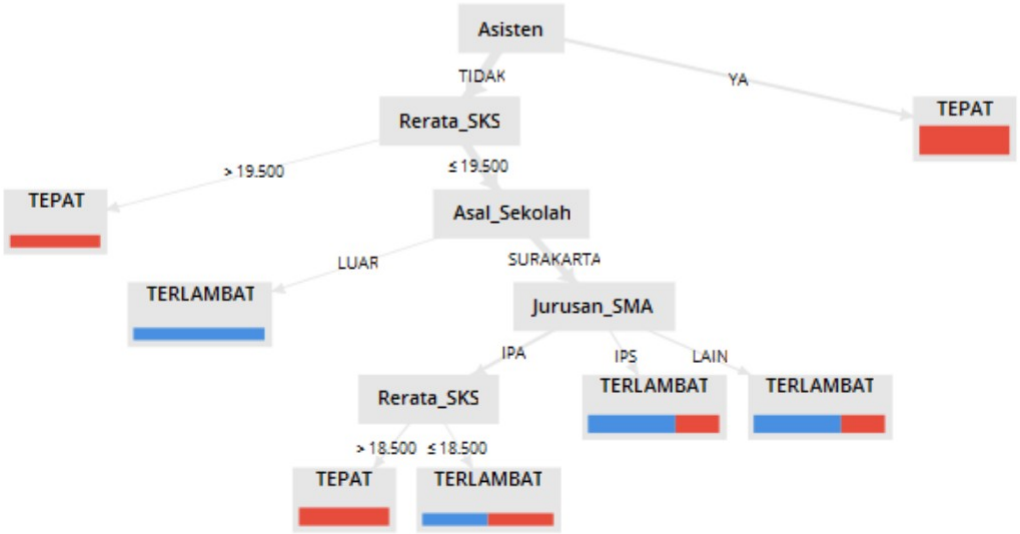
3.

a)

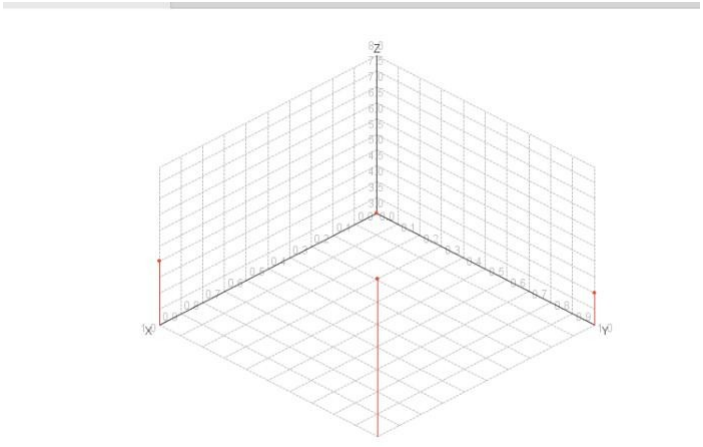

<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-01-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Repository
Import Data
Connections (LABSI-01)
data (LABSI-01)
processes (LABSI-01)
cuaca_testing (LABSI-01
cuaca_trainning (LABSI-
datanewtrainning (LABSI
datatrainning (LABSI-01
Operators
performance
Performance (17)
Predictive (7)
Performance (Cl
Performance (Bi
Performance (R
We found "Model Management" in the Marketplace. Show me!
Process
Process ▸ Cross Validation
100%
Training
Testing
Decision Tree
Apply Model
Performance
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Cross Validation
split on batch attribute
leave one out
number of folds 10
sampling type automatic
use local random seed
enable parallel execution
Hide advanced parameters
Change compatibility (9.3.001)
Help
Cross Validation


<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-01-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Repository
Import Data
Connections (LABSI-01)
data (LABSI-01)
processes (LABSI-01)
cuaca_testing (LABSI-01
cuaca_trainning (LABSI-
datanewtrainning (LABSI
datatrainning (LABSI-01
Operators
performance
Performance (17)
Predictive (7)
Performance (Cl
Performance (Bi
Performance (R
We found "Model Management" in the Marketplace. Show me!
Process
Process ▸ Cross Validation
100%
Training
Testing
Decision Tree
Apply Model
Performance
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Decision Tree
maximal depth 10
apply pruning
confidence 0.1
apply prepruning
minimal gain 0.01
minimal leaf si... 2
minimal size f... 4
number of pre... 3
Hide advanced parameters
Help
Decision Tree

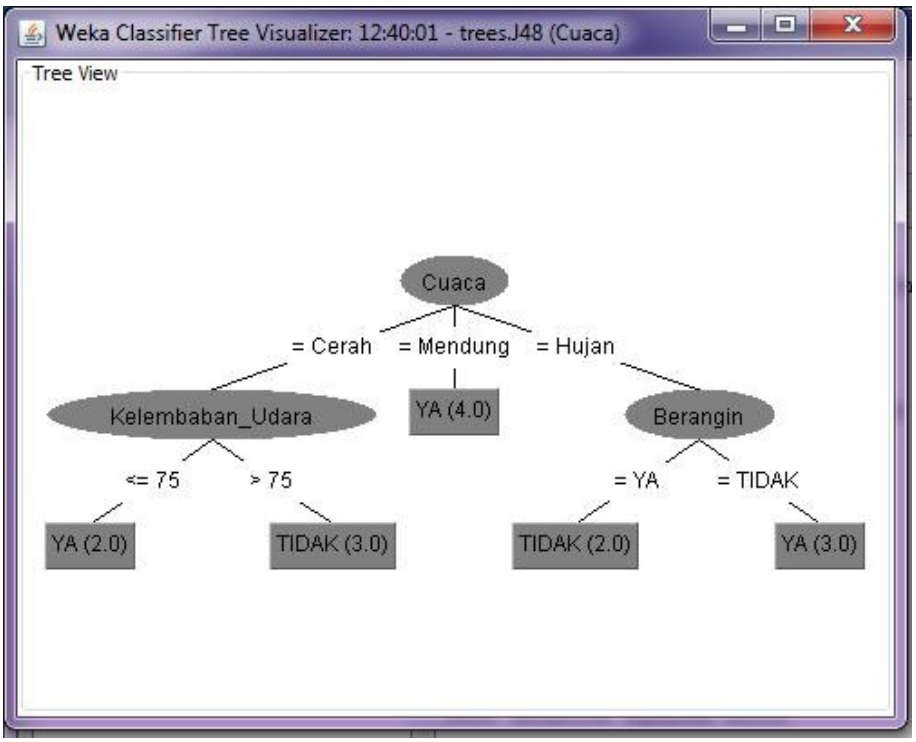

<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-01-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
ExampleSet (//Local Repository/cuaca_trainning)
ExampleSet (//Local Repository/CuacaTesting)
ExampleSet (//Local Repository/datatrainning)
ExampleSet (//Local Repository/cuaca_testing)
Tree (Decision Tree)
ExampleSet (//Local Repository/datanewtrainning)
Result History
PerformanceVector (Performance)
Performance
Description
Annotations
Criterion
accuracy
Table View
Plot View
accuracy: 55.00% +/- 28.38% (micro average: 55.00%)
true TERLAMBAT
true TEPAT
class precisi
pred. TERLAMBAT
3
5
37.50%
pred. TEPAT
4
8
66.67%
class recall
42.86%
61.54%
Repository
Import Data
Samples
data
processes
01_Learner
02_Preprocessing
03_Validation
04_Attributes
05_Visualisation
06_Meta
07_Clustering
08_Other
Templates
Time Series
Tutorials
DB (Legacy)
Local Repository (LABSI-01)
Connections (LABSI-01)
data (LABSI-01)
processes (LABSI-01)
Realtek Digital Output(Opt


Asisten
TIDAK
YA
TEPAT
Rerata_SKS
> 19.500
≤ 19.500
TEPAT
Asal_Sekolah
LUAR
SURAKARTA
TERLAMBAT
Jurusan_SMA
IPA
IPS
LAIN
Rerata_SKS
TERLAMBAT
TERLAMBAT
> 18.500
≤ 18.500
TEPAT
TERLAMBAT

b.


Z
X
Y

4.



Akan bermain(YA) jika :

Cucaca=cerah, Kelelmbaban_udara= <=75

Cuaca = mendung

Cuaca = hujan, berangin= tidak

Tidak bermain (TIDAK)

Cuaca = cerah, kelembaban_udara = >75

Cuaca = hujan, berangin = ya

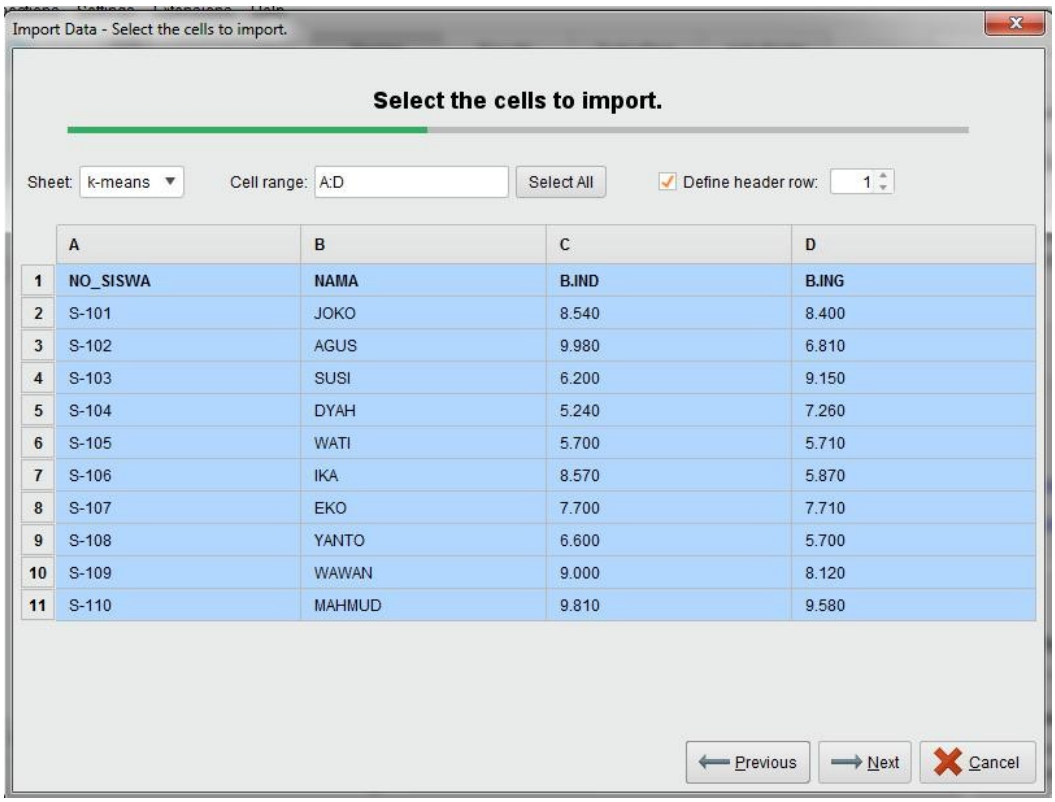
MODUL 10

Percobaan

1.

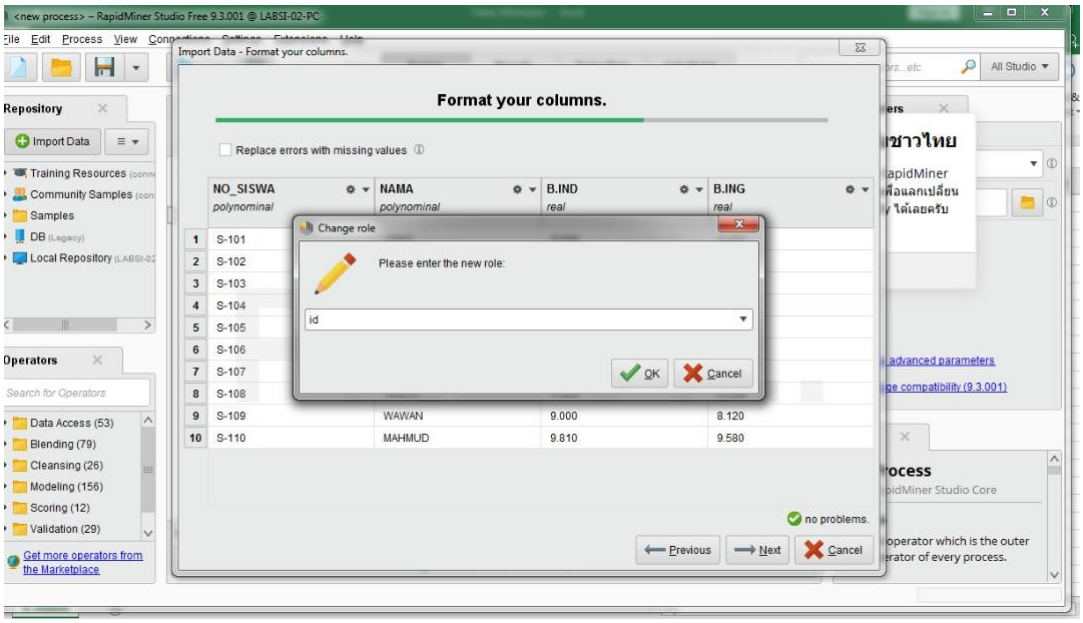
	A	B	C	D	E
	NO_SISWA	NAMA	B.IND	B.ING	
	S-101	JOKO	8,54	8,4	
	S-102	AGUS	9,98	6,81	
	S-103	SUSI	6,2	9,15	
	S-104	DYAH	5,24	7,26	
	S-105	WATI	5,7	5,71	
	S-106	IKA	8,57	5,87	
	S-107	EKO	7,7	7,71	
	S-108	YANTO	6,6	5,7	
0	S-109	WAWAN	9	8,12	
1	S-110	MAHMUD	9,81	9,58	
2					
3					

2.,3.

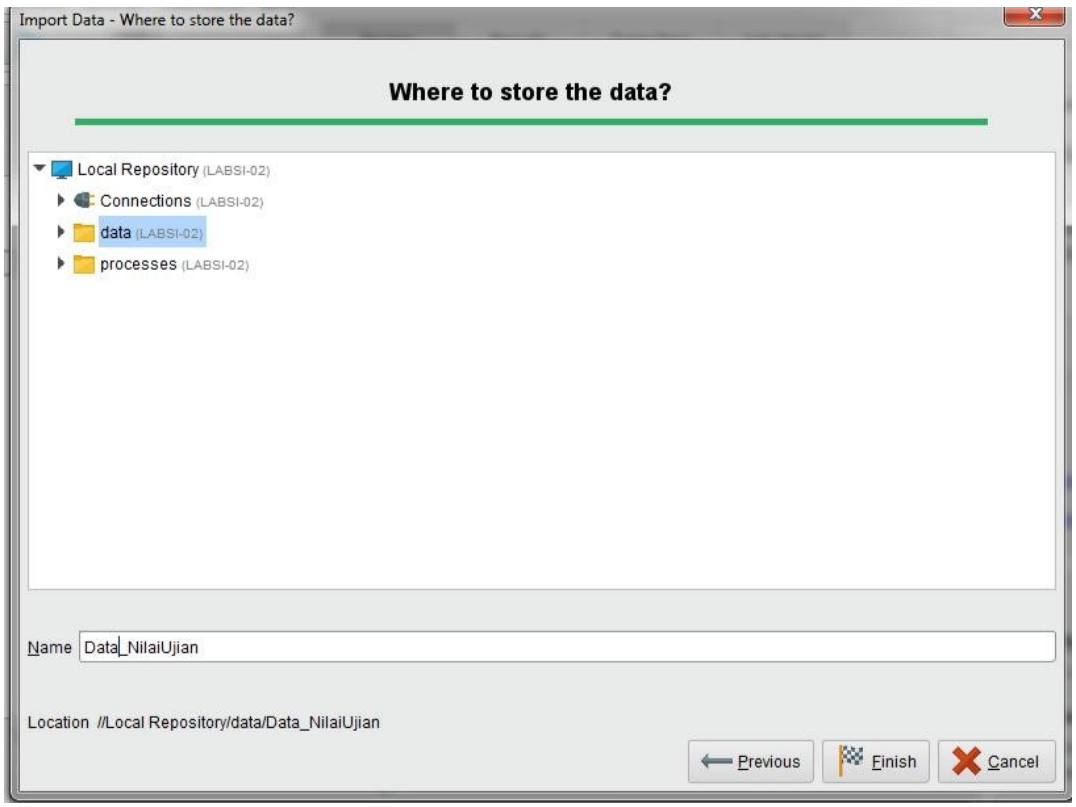


	A	B	C	D
1	NO_SISWA	NAMA	B.IND	B.ING
2	S-101	JOKO	8.540	8.400
3	S-102	AGUS	9.980	6.810
4	S-103	SUSI	6.200	9.150
5	S-104	DYAH	5.240	7.260
6	S-105	WATI	5.700	5.710
7	S-106	IKA	8.570	5.870
8	S-107	EKO	7.700	7.710
9	S-108	YANTO	6.600	5.700
10	S-109	WAWAN	9.000	8.120
11	S-110	MAHMUD	9.810	9.580

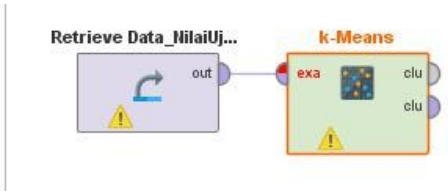
4.


Import Data - Format your columns.
Format your columns.
Replace errors with missing values
NO_SISWA
polynominal
NAMA
polynominal
B.IND
real
B.ING
real
Change role
Please enter the new role:
id
OK
Cancel
S-109
WAWAN
9.000
8.120
S-110
MAHMUD
9.810
9.580
no problems.
Previous
Next
Cancel
Repository
Import Data
Training Resources
Community Samples
Samples
DB (Legacy)
Local Repository
Operators
Search for Operators
Data Access (53)
Blending (79)
Cleansing (26)
Modeling (156)
Scoring (12)
Validation (29)
Get more operators from the Marketplace

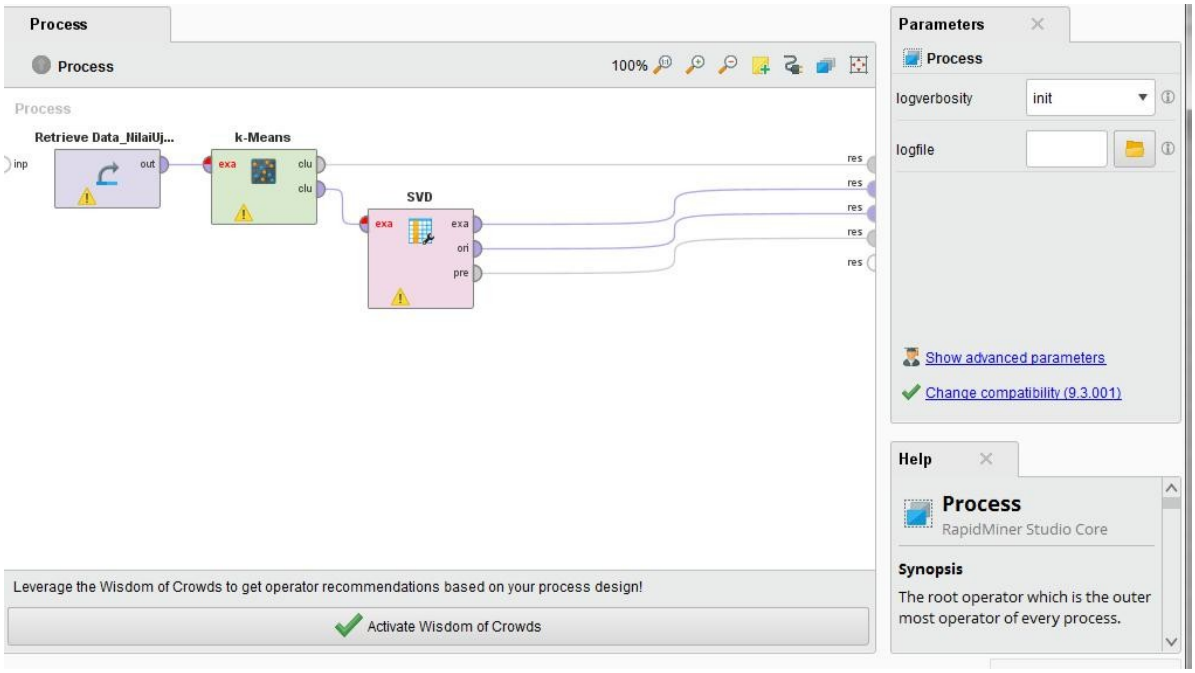
5.


Import Data - Where to store the data?
Where to store the data?
Local Repository (LABSI-02)
Connections (LABSI-02)
data (LABSI-02)
processes (LABSI-02)
Name
Data_NilaiUjian
Location //Local Repository/data/Data_NilaiUjian
Previous
Finish
Cancel

6.,7.



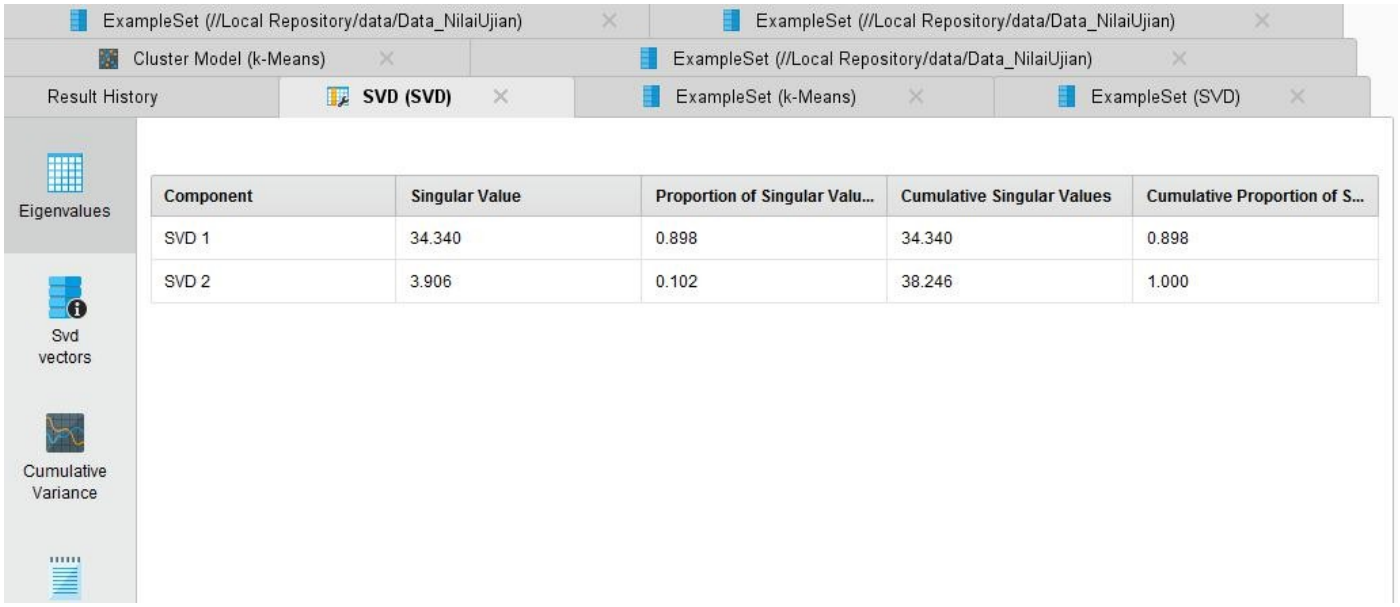
8.



9., 10

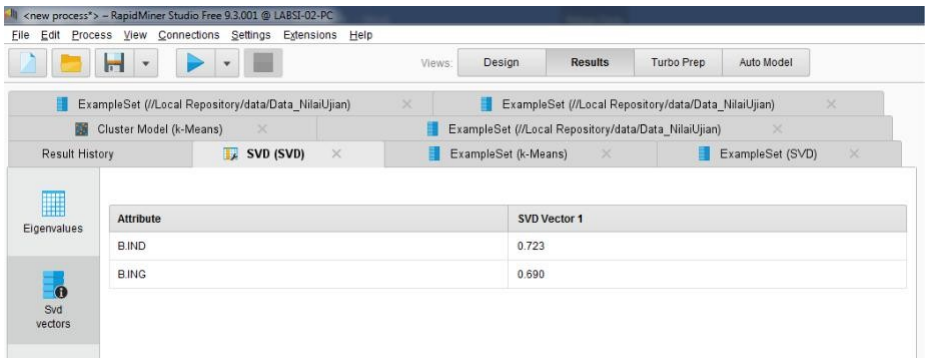
a.

i.

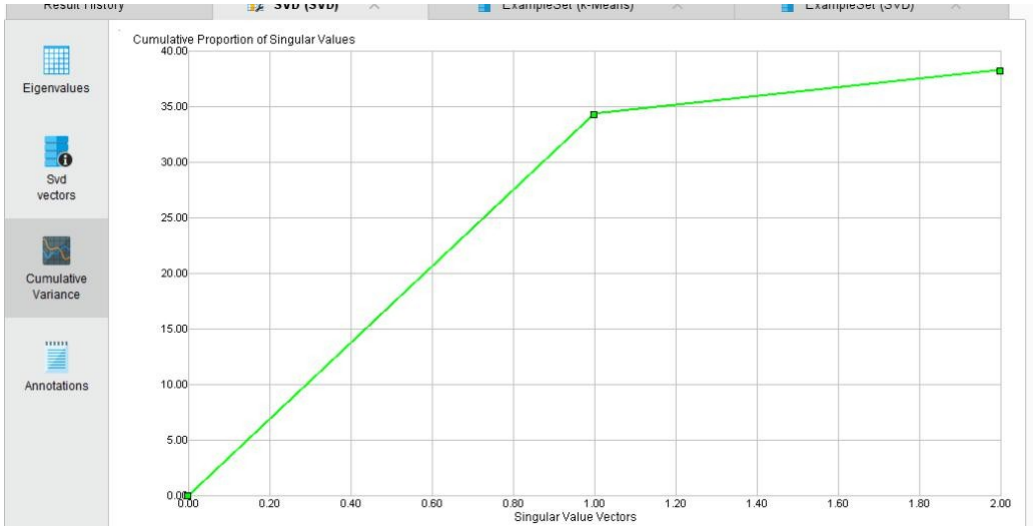


Component	Singular Value	Proportion of Singular Valu...	Cumulative Singular Values	Cumulative Proportion of S...
SVD 1	34.340	0.898	34.340	0.898
SVD 2	3.906	0.102	38.246	1.000

ii.

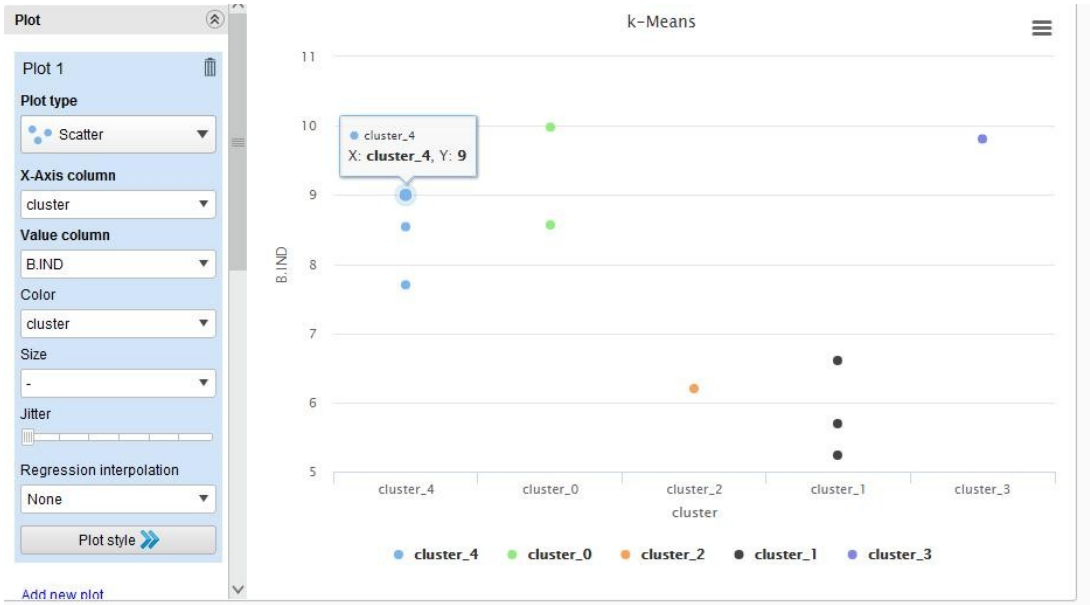


iii.

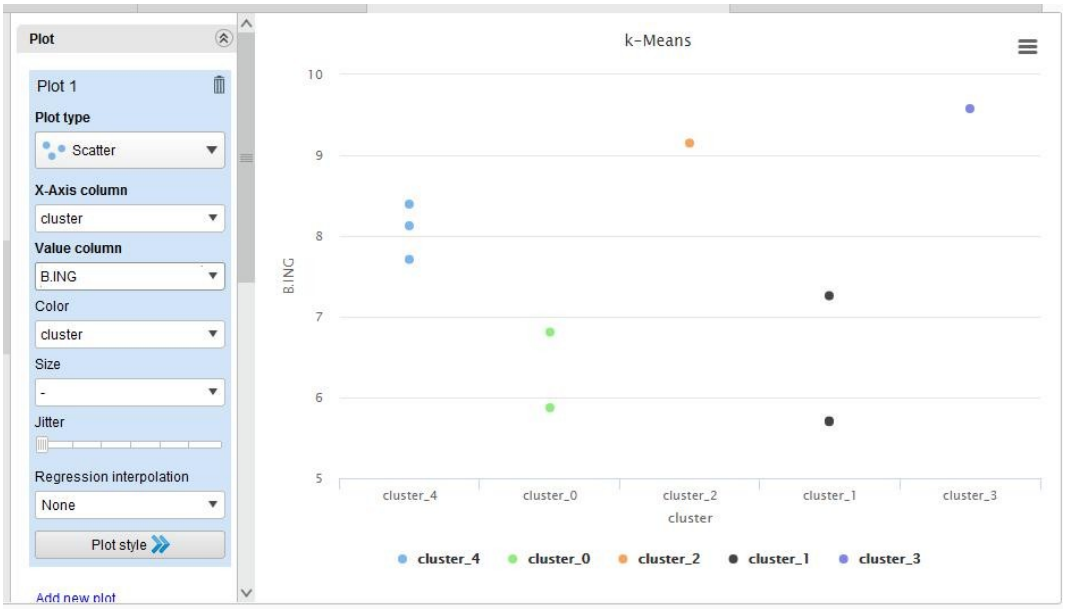


b.

I. B.IND



II. B.ING

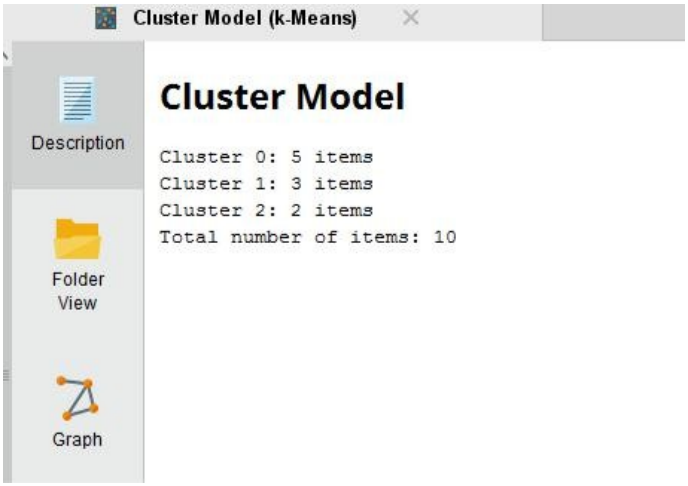


C. SVD

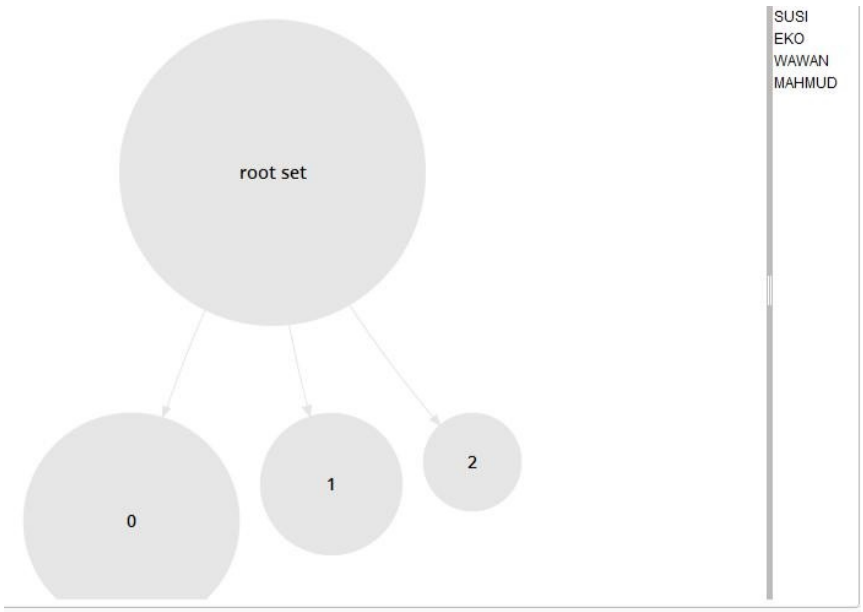
Row No.	NAMA	cluster	svd_1
1	JOKO	cluster_0	0.349
3	SUSI	cluster_0	0.315
7	EKO	cluster_0	0.317
9	WAWAN	cluster_0	0.353
10	MAHMUD	cluster_0	0.399
4	DYAH	cluster_1	0.256
5	WATI	cluster_1	0.235
8	YANTO	cluster_1	0.254
2	AGUS	cluster_2	0.347
6	IKA	cluster_2	0.299

D. CLUSTER MODEL

I. DESC



II. GRAPH

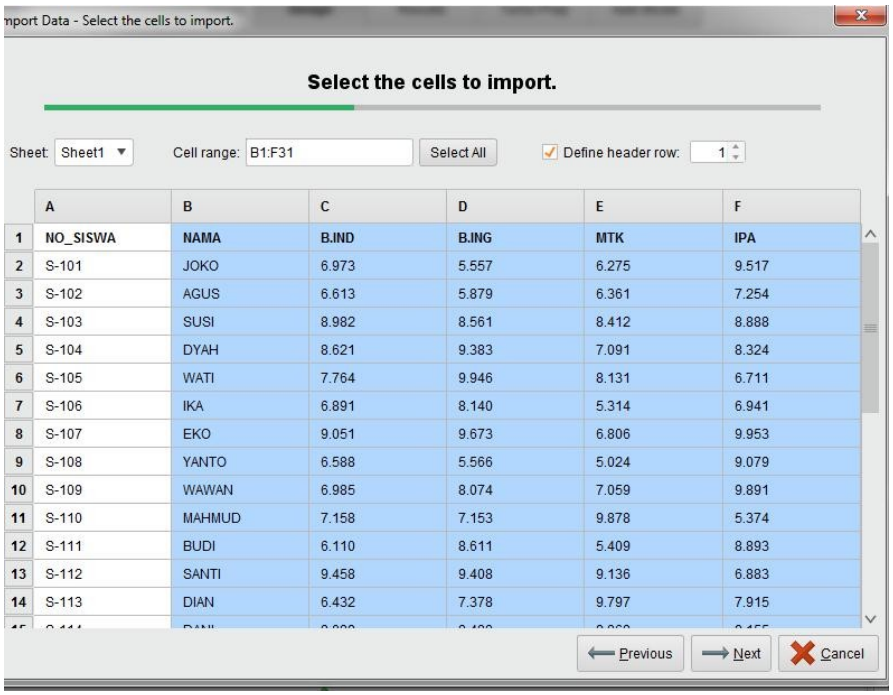

root set
0
1
2
SUSI
EKO
WAWAN
MAHMUD

Tugas

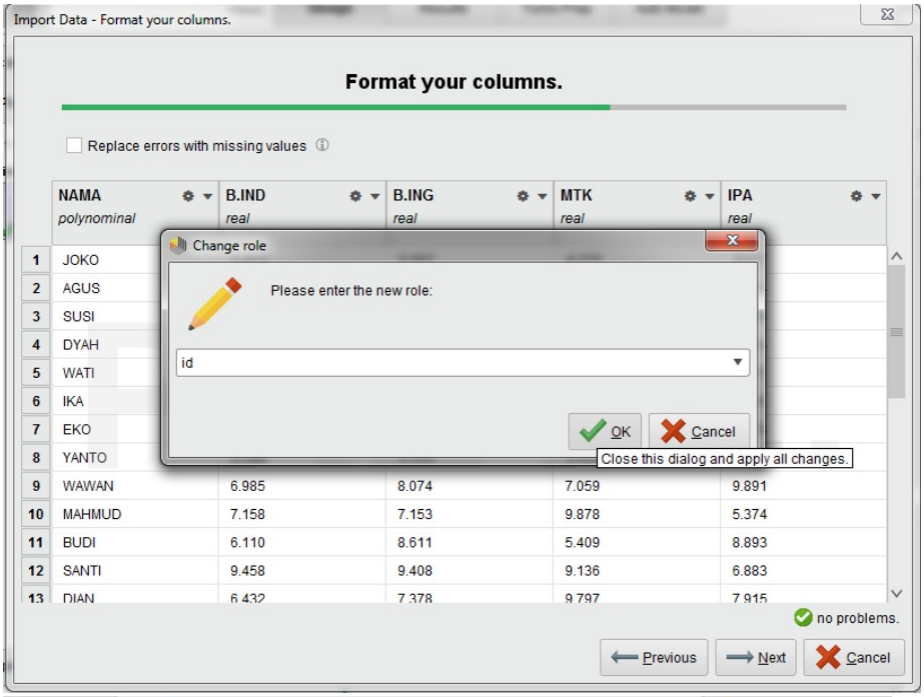
1. .

	NO_SISWA	NAMA	B.IND	B.ING	MTK	IPA
2	S-101	JOKO	6,97	5,56	6,27	9,52
3	S-102	AGUS	6,61	5,88	6,36	7,25
4	S-103	SUSI	8,98	8,56	8,41	8,89
5	S-104	DYAH	8,62	9,38	7,09	8,32
6	S-105	WATI	7,76	9,95	8,13	6,71
7	S-106	IKA	6,89	8,14	5,31	6,94
8	S-107	EKO	9,05	9,67	6,81	9,95
9	S-108	YANTO	6,59	5,57	5,02	9,08
10	S-109	WAWAN	6,98	8,07	7,06	9,89
11	S-110	MAHMUD	7,16	7,15	9,88	5,37
12	S-111	BUDI	6,11	8,61	8,41	8,89
13	S-112	SANTI	9,46	9,41	9,14	6,88
14	S-113	DIAN	6,43	7,38	9,80	7,92
15	S-114	DANI	8,09	8,49	9,87	9,15
16	S-115	AHMAD	9,02	8,16	5,17	9,70
17	S-116	BAYU	9,14	8,12	6,78	9,09
18	S-117	RISA	8,41	8,41	8,54	6,96
19	S-118	RANI	9,23	6,56	7,89	8,94
20	S-119	YANI	5,24	7,09	7,62	7,09
21	S-120	RATIH	9,76	8,75	9,57	6,71
22	S-121	INDAH	7,15	7,78	7,65	8,18
23	S-122	JONO	7,77	9,20	9,40	5,18
24	S-123	SARAH	9,89	7,63	6,74	5,63
25	S-124	RAMA	7,54	8,04	9,38	6,85
26	S-125	BABANG	9,29	6,51	8,54	9,12
27	S-126	HADI	9,15	8,67	8,07	6,42
28	S-127	NANA	8,18	8,40	5,09	9,04
29	S-128	FEBRI	7,07	7,78	8,88	5,93
30	S-129	DENI	5,35	6,99	5,02	8,18
31	S-130	TONI	5,96	5,09	8,75	5,59
32						
33						

2. .



	A	B	C	D	E	F
1	NO_SISWA	NAMA	B.IND	B.ING	MTK	IPA
2	S-101	JOKO	6.973	5.557	6.275	9.517
3	S-102	AGUS	6.613	5.879	6.361	7.254
4	S-103	SUSI	8.982	8.561	8.412	8.888
5	S-104	DYAH	8.621	9.383	7.091	8.324
6	S-105	WATI	7.764	9.946	8.131	6.711
7	S-106	IKA	6.891	8.140	5.314	6.941
8	S-107	EKO	9.051	9.673	6.806	9.953
9	S-108	YANTO	6.588	5.566	5.024	9.079
10	S-109	WAWAN	6.985	8.074	7.059	9.891
11	S-110	MAHMUD	7.158	7.153	9.878	5.374
12	S-111	BUDI	6.110	8.611	5.409	8.893
13	S-112	SANTI	9.458	9.408	9.136	6.883
14	S-113	DIAN	6.432	7.378	9.797	7.915



ExampleSet (//Local Repository/data/30siswa) | SVD (SVD)

Open in Turbo Prep | Auto Model

Row No.	NAMA	B.IND	B.ING	MTK	IPA
1	JOKO	6.973	5.557	6.275	9.517
2	AGUS	6.613	5.879	6.361	7.254
3	SUSI	8.982	8.561	8.412	8.888
4	DYAH	8.621	9.383	7.091	8.324
5	WATI	7.764	9.946	8.131	6.711
6	IKA	6.891	8.140	5.314	6.941
7	EKO	9.051	9.673	6.806	9.953
8	YANTO	6.588	5.566	5.024	9.079
9	WAWAN	6.985	8.074	7.059	9.891
10	MAHMUD	7.158	7.153	9.878	5.374
11	BUDI	6.110	8.611	5.409	8.893
12	SANTI	9.458	9.408	9.136	6.883
13	DIAN	6.432	7.378	9.797	7.915

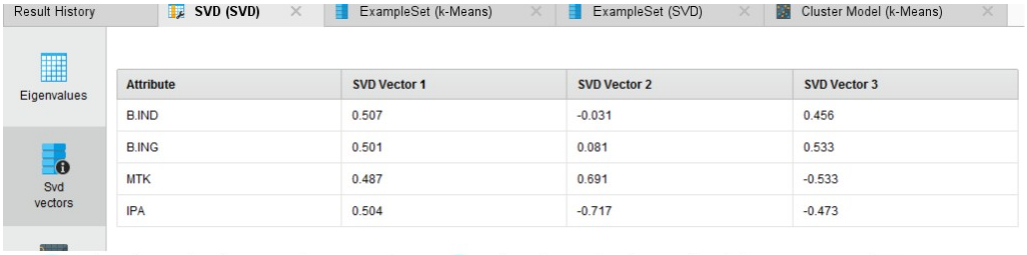
Result History | SVD (SVD) | ExampleSet (k-Means) | ExampleSet (SVD) | Cluster Model (k-Means)

Eigenvalues

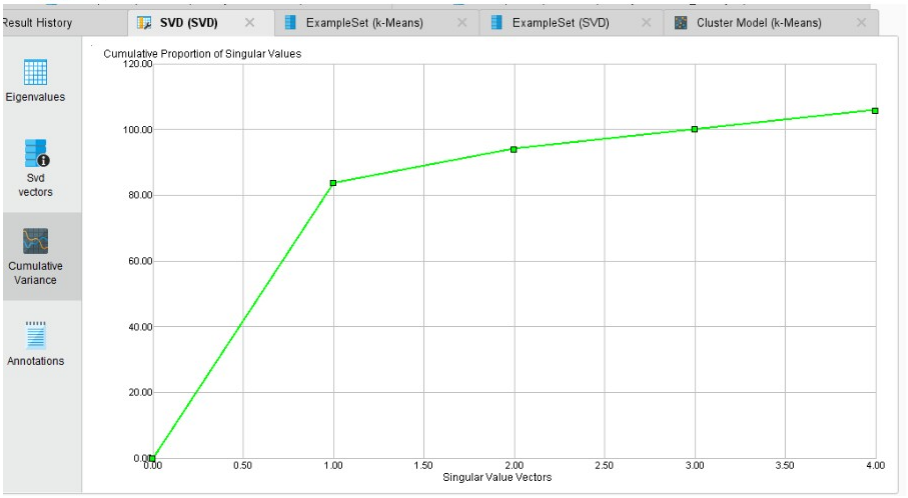
Svd vectors

Cumulative Variance

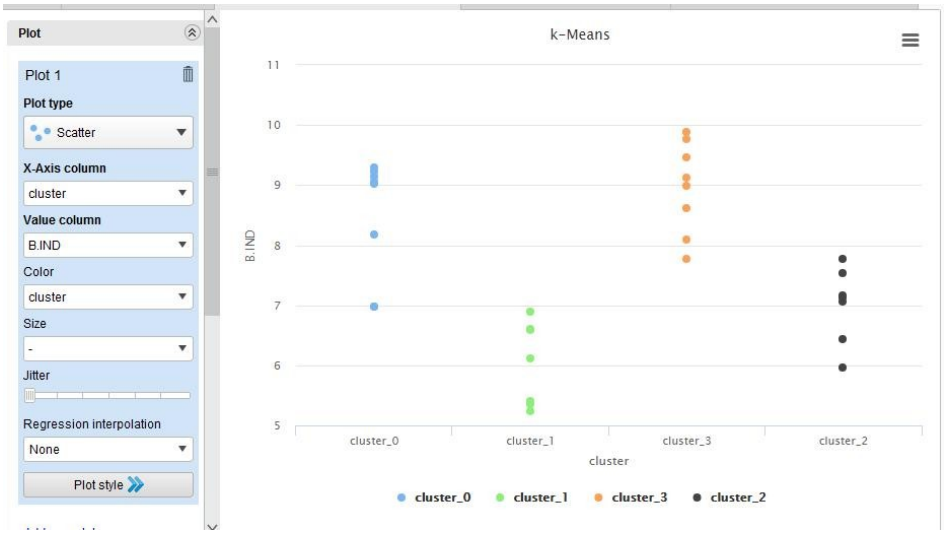
Component	Singular Value	Proportion of Singular Valu...	Cumulative Singular Values	Cumulative Proportion of S...
SVD 1	83.781	0.791	83.781	0.791
SVD 2	10.307	0.097	94.088	0.889
SVD 3	6.066	0.057	100.154	0.946
SVD 4	5.717	0.054	105.871	1.000



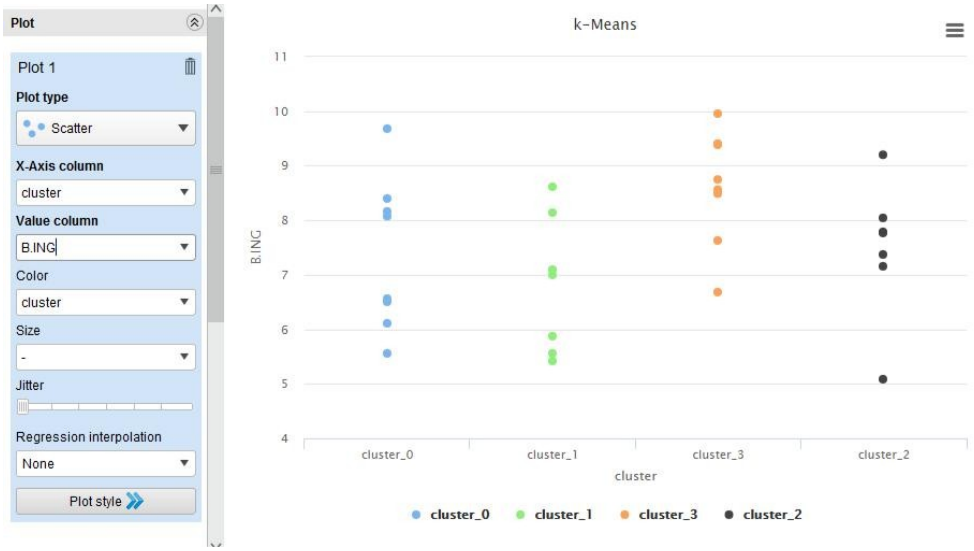
Attribute	SVD Vector 1	SVD Vector 2	SVD Vector 3
B.IND	0.507	-0.031	0.456
B.ING	0.501	0.081	0.533
MTK	0.487	0.691	-0.533
IPA	0.504	-0.717	-0.473



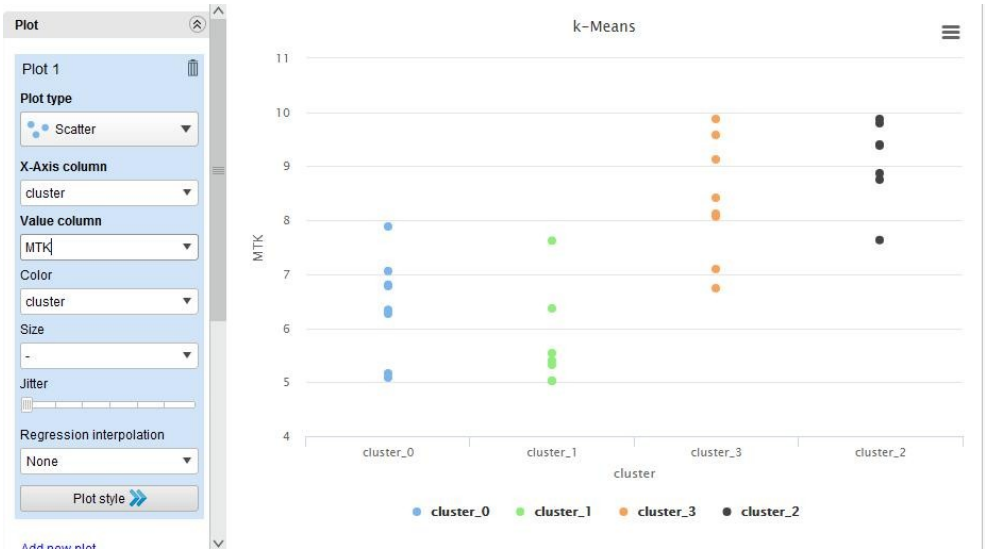
b.ind



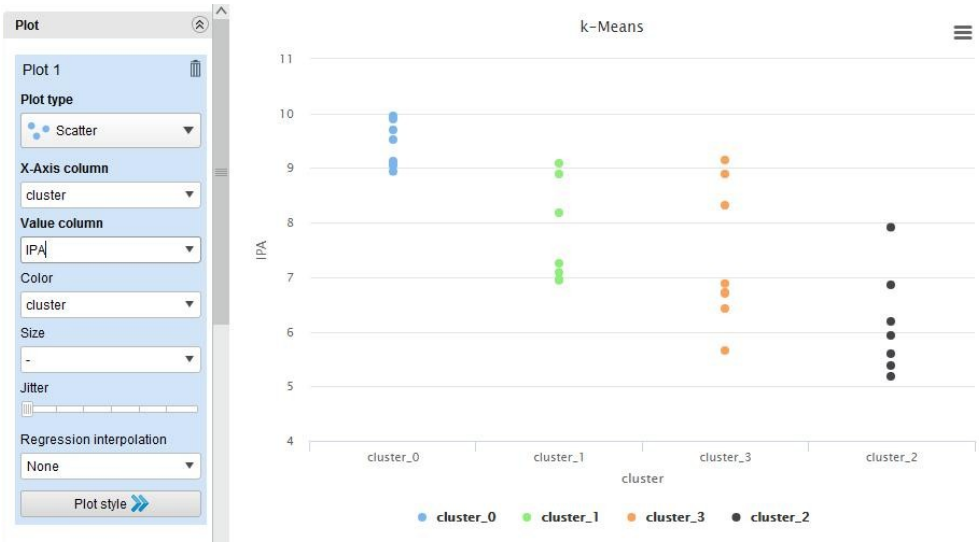
b.ing


Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
B.ING
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
k-Means
B.ING
cluster
cluster_0
cluster_1
cluster_3
cluster_2

Mtk


Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
MTK
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
k-Means
MTK
cluster
cluster_0
cluster_1
cluster_3
cluster_2

IPA


Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
IPA
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
k-Means
IPA
cluster
cluster_0
cluster_1
cluster_3
cluster_2

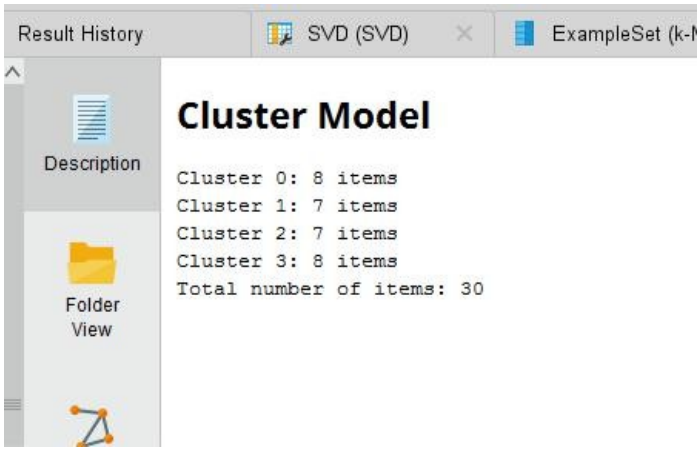
Row No.	NAMA	cluster	svd_1
1	JOKO	cluster_0	0.169
7	EKO	cluster_0	0.212
9	WAWAN	cluster_0	0.191
15	AHMAD	cluster_0	0.192
16	BAYU	cluster_0	0.186
18	RANI	cluster_0	0.195
25	BABANG	cluster_0	0.187
27	NANA	cluster_0	0.184
2	AGUS	cluster_1	0.156
6	IKA	cluster_1	0.163
8	YANTO	cluster_1	0.157
11	BUDI	cluster_1	0.173
17	RISA	cluster_1	0.139

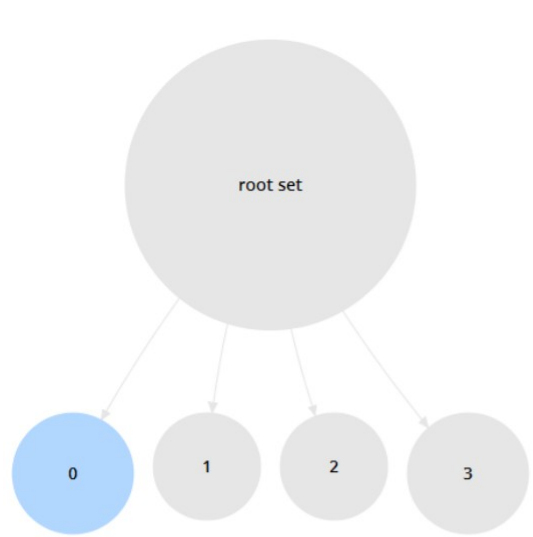
Row No.	NAMA	cluster	svd_1
17	RISA	cluster_1	0.139
19	YANI	cluster_1	0.161
29	DENI	cluster_1	0.153
10	MAHMUD	cluster_2	0.176
13	DIAN	cluster_2	0.188
21	INDAH	cluster_2	0.171
22	JONO	cluster_2	0.188
24	RAMA	cluster_2	0.189
28	FEBRI	cluster_2	0.177
30	TONI	cluster_2	0.151
3	SUSI	cluster_3	0.208
4	DYAH	cluster_3	0.200
5	WATI	cluster_3	0.194

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

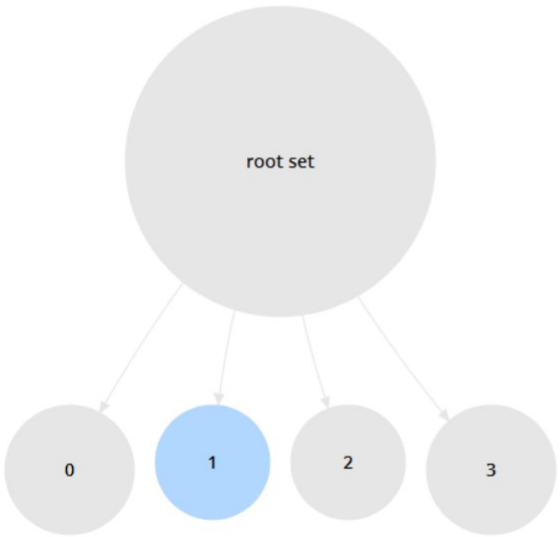
5	WATI	cluster_3	0.194
12	SANTI	cluster_3	0.208
14	DANI	cluster_3	0.212
20	RATIH	cluster_3	0.207
23	SARAH	cluster_3	0.179
26	HADI	cluster_3	0.181

CLUSTER MODEL

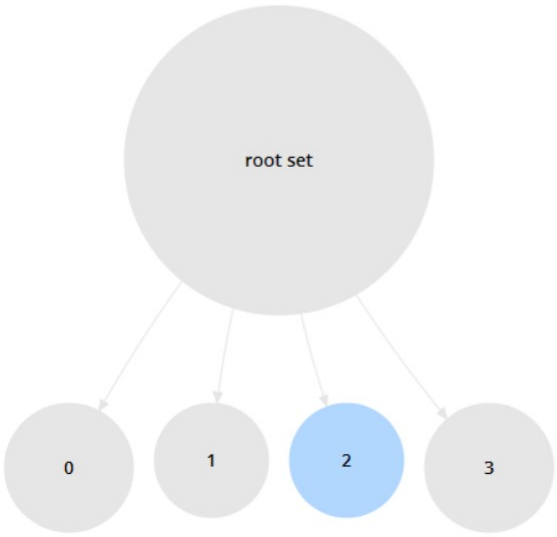




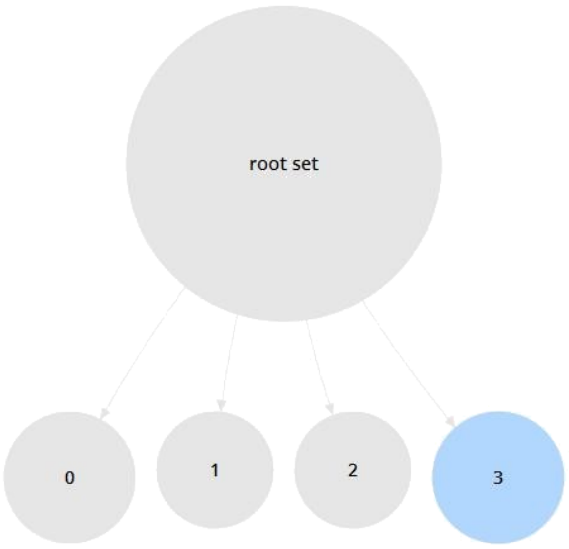
JOKO
EKO
WAWAN
AHMAD
BAYU
RANI
BABANG
NANA



IKA
YANTC
BUDI
RISA
YANI
DENI

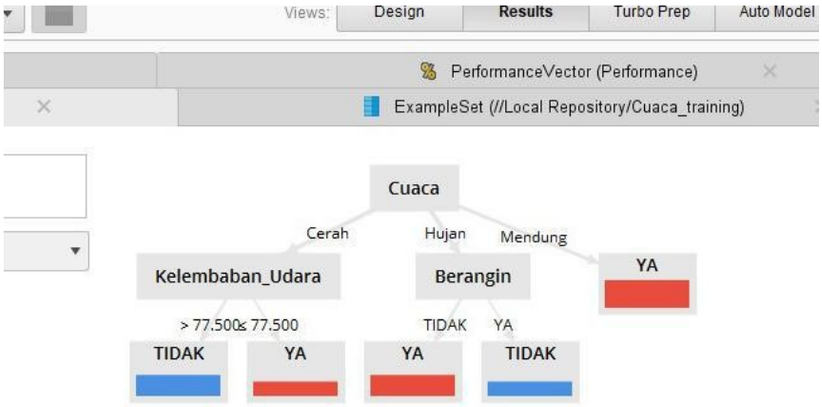


MAHMUD
DIAN
INDAH
JONO
RAMA
FEBRI
TONI



SUSI
DYAH
WATI
SANTI
DANI
RATIH
SARAH
HADI

MODUL 11


Views:
Design
Results
Turbo Prep
Auto Model
PerformanceVector (Performance)
ExampleSet (//Local Repository/Cuaca_training)
Cuaca
Cerah
Hujan
Mendung
Kelembaban_Udara
Berangin
YA
> 77.500
≤ 77.500
TIDAK
YA
TIDAK
YA
YA
TIDAK

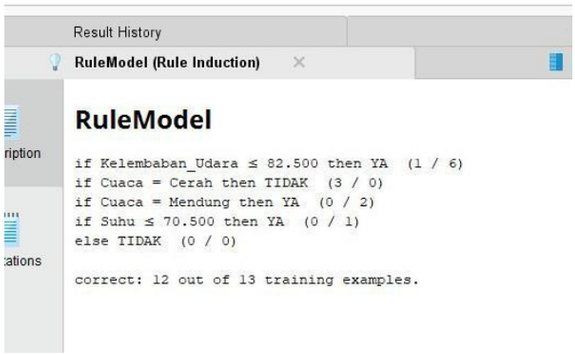
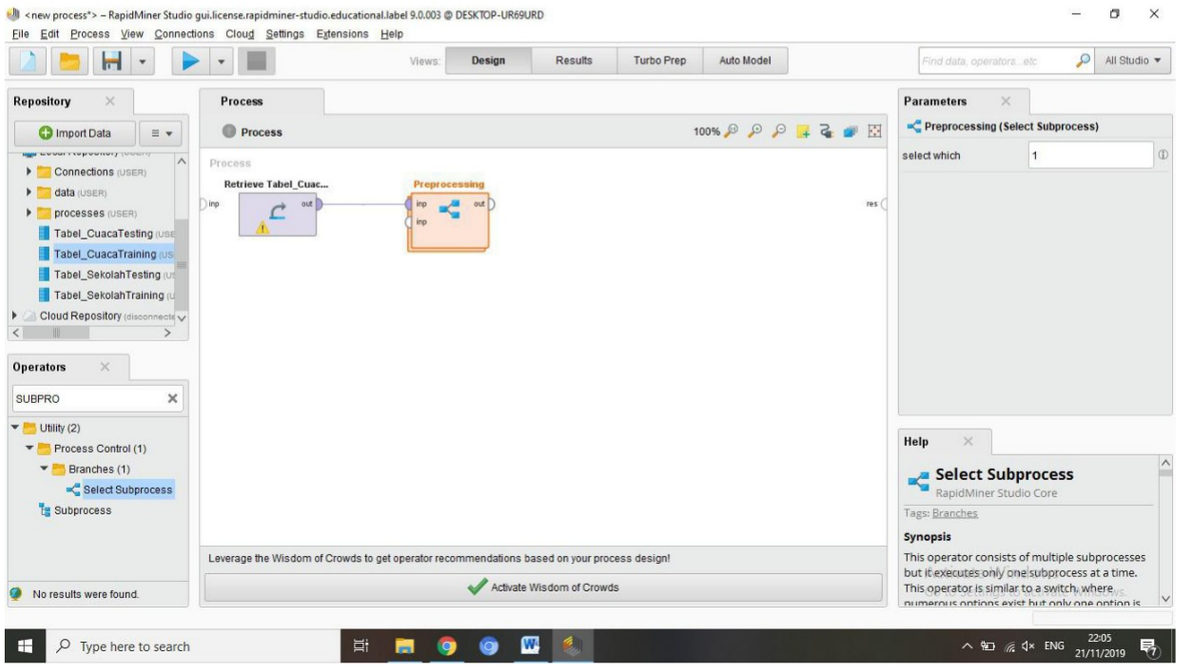
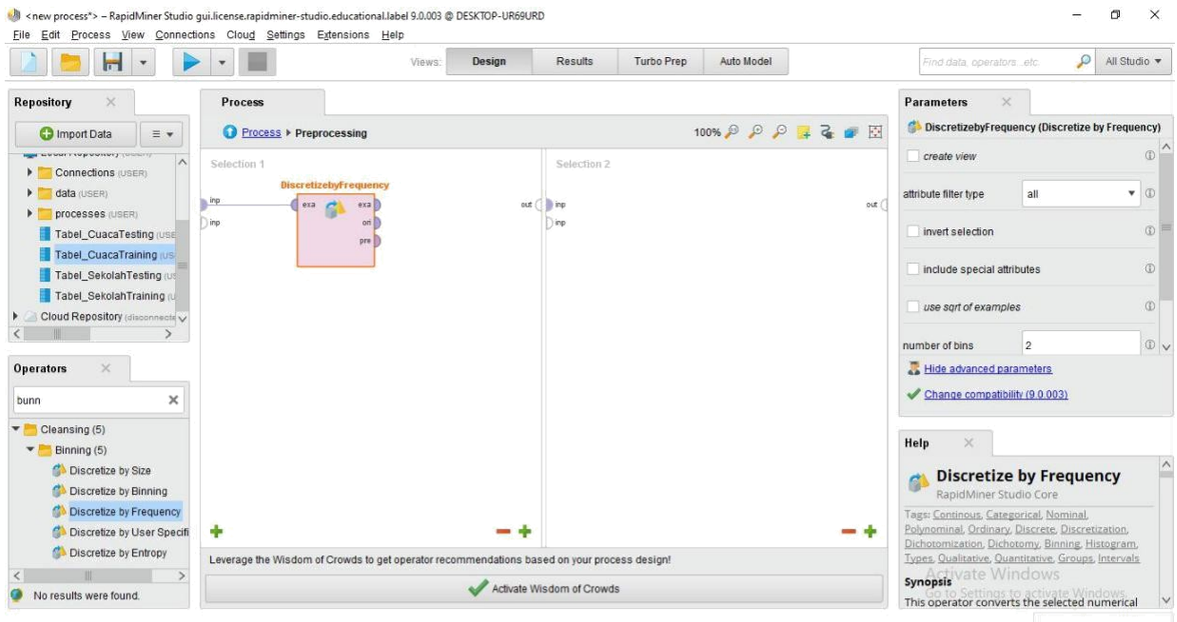

Result History
RuleModel (Rule Induction)
RuleModel
if Kelembaban_Udara ≤ 82.500 then YA (1 / 6)
if Cuaca = Cerah then TIDAK (3 / 0)
if Cuaca = Mendung then YA (0 / 2)
if Suhu ≤ 70.500 then YA (0 / 1)
else TIDAK (0 / 0)
correct: 12 out of 13 training examples.

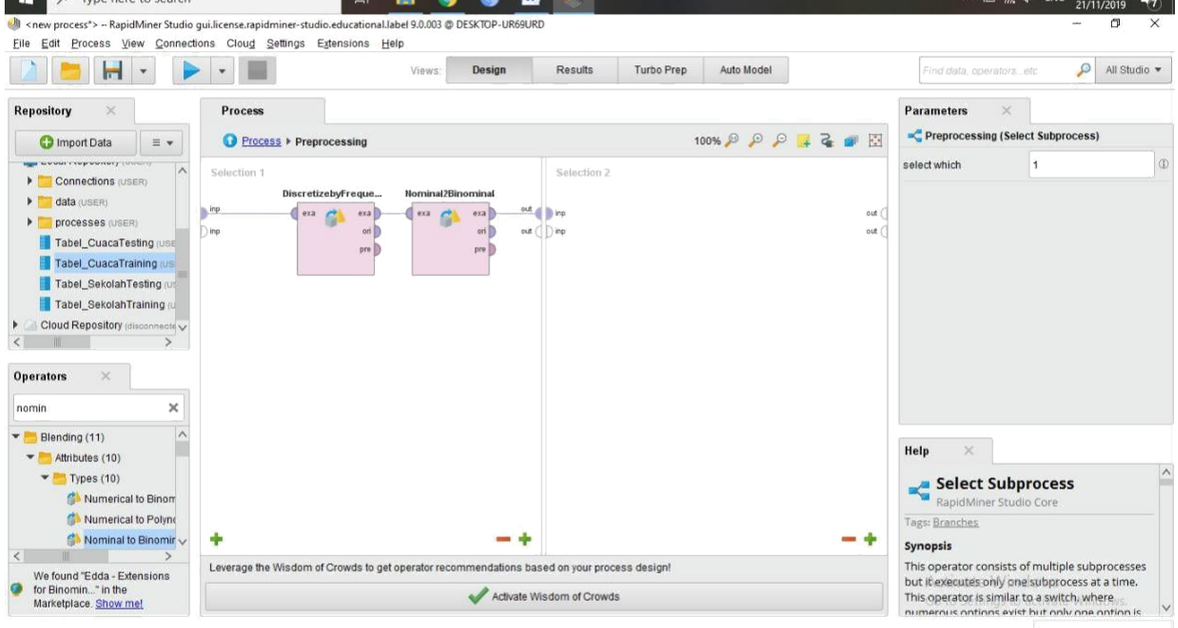
Table View Plot View

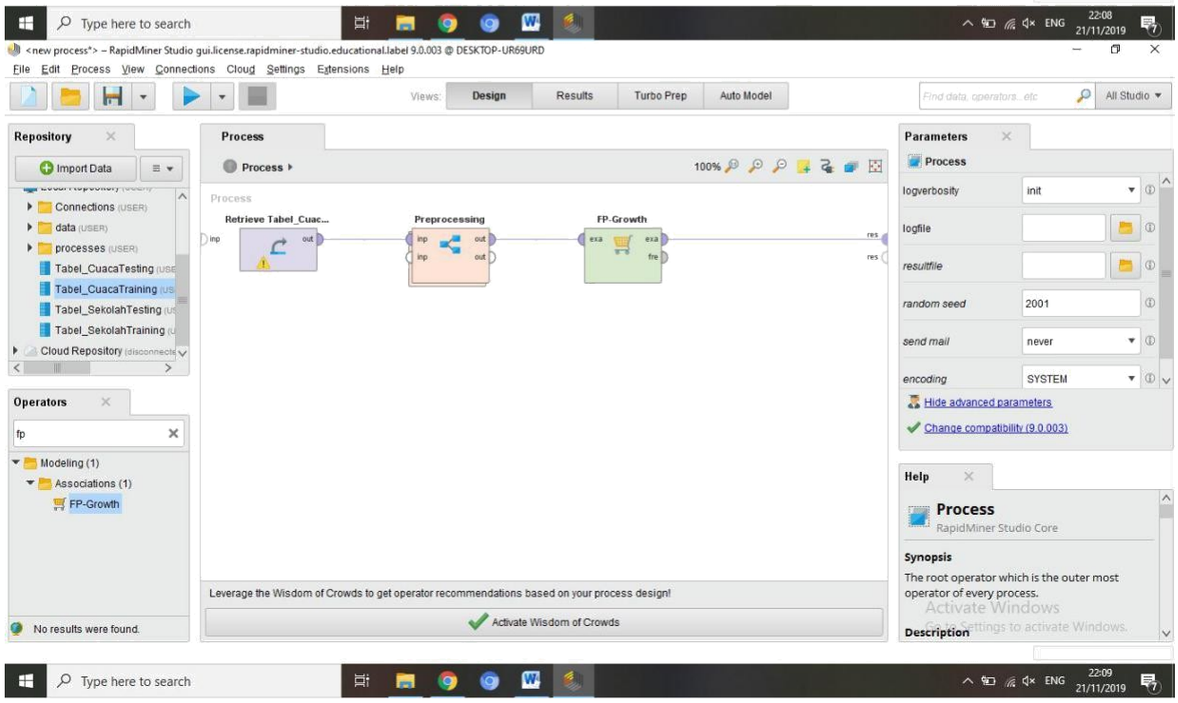
accuracy: 65.00% +/- 45.00% (micro average: 71.43%)

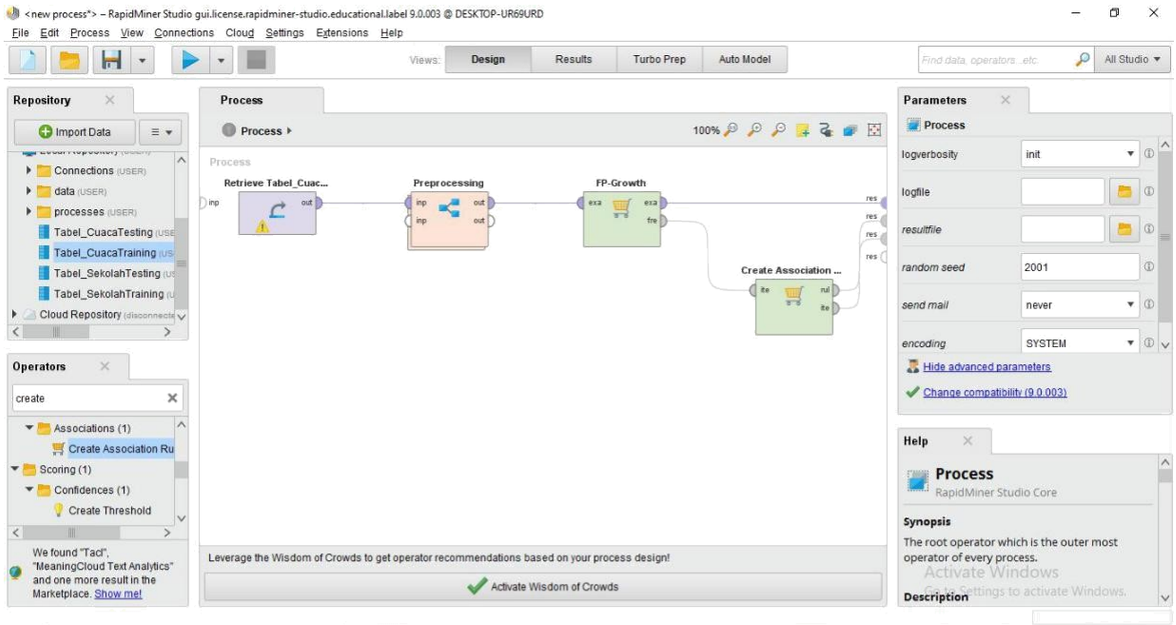
	true TIDAK	true YA	class precision
pred. TIDAK	2	1	66.67%
pred. YA	3	8	72.73%
class recall	40.00%	88.89%	

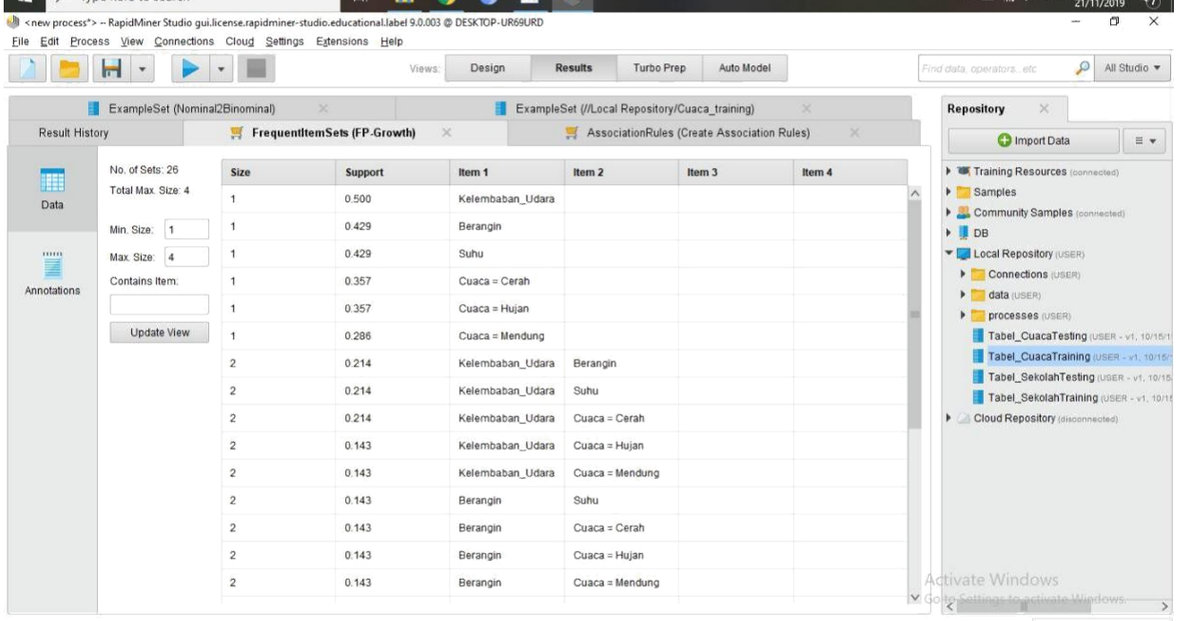


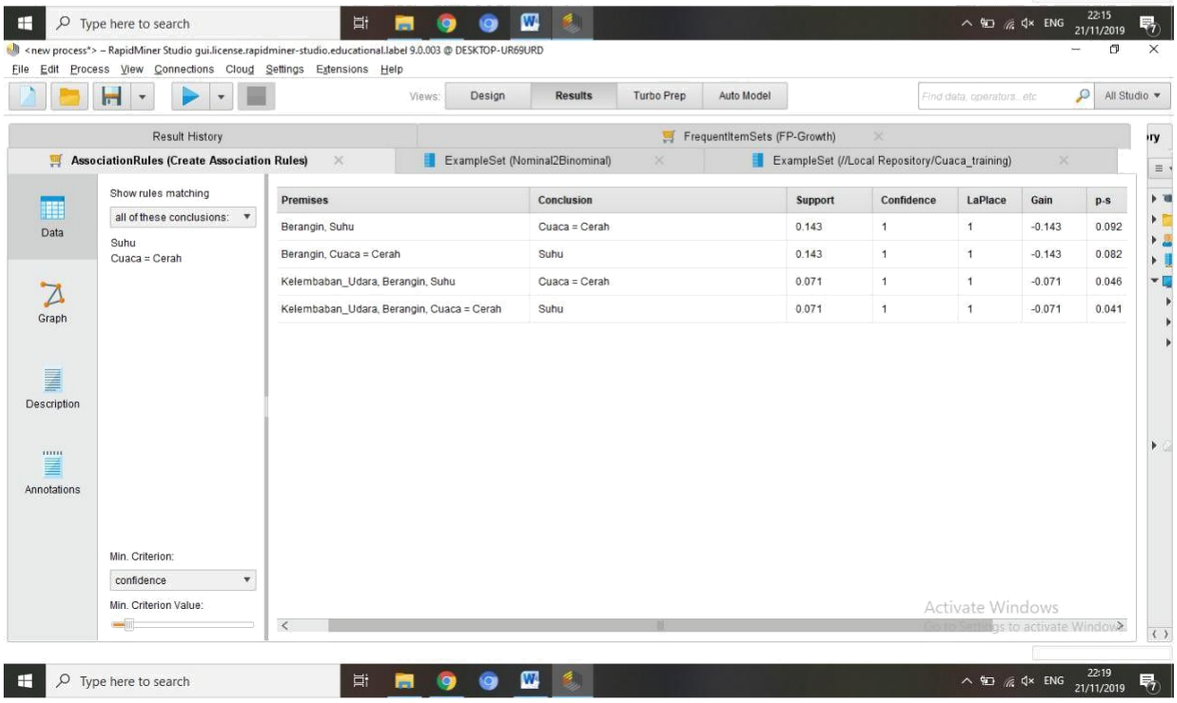

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc.
All Studio
Repository
Import Data
Connections (USER)
data (USER)
processes (USER)
Tabel_CuacaTesting
Tabel_CuacaTraining
Tabel_SekolahTesting
Tabel_SekolahTraining
Cloud Repository (disconnected)
Operators
bunn
Cleansing (5)
Binning (5)
Discretize by Size
Discretize by Binning
Discretize by Frequency
Discretize by User Specifi
Discretize by Entropy
No results were found.
Process
Process ▸ Preprocessing
100%
Selection 1
Selection 2
DiscretizebyFrequency
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
DiscretizebyFrequency (Discretize by Frequency)
create view
attribute filter type
all
invert selection
include special attributes
use sqrt of examples
number of bins
2
Hide advanced parameters
Change compatibility (9.0.003)
Help
Discretize by Frequency
RapidMiner Studio Core
Tags: Continous, Categorical, Nominal, Polynominal, Ordinary, Discrete, Discretization, Dichotomization, Dichotomy, Binning, Histogram, Types, Qualitative, Quantitative, Groups, Intervals
Synopsis
This operator converts the selected numerical
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
22:07
21/11/2019

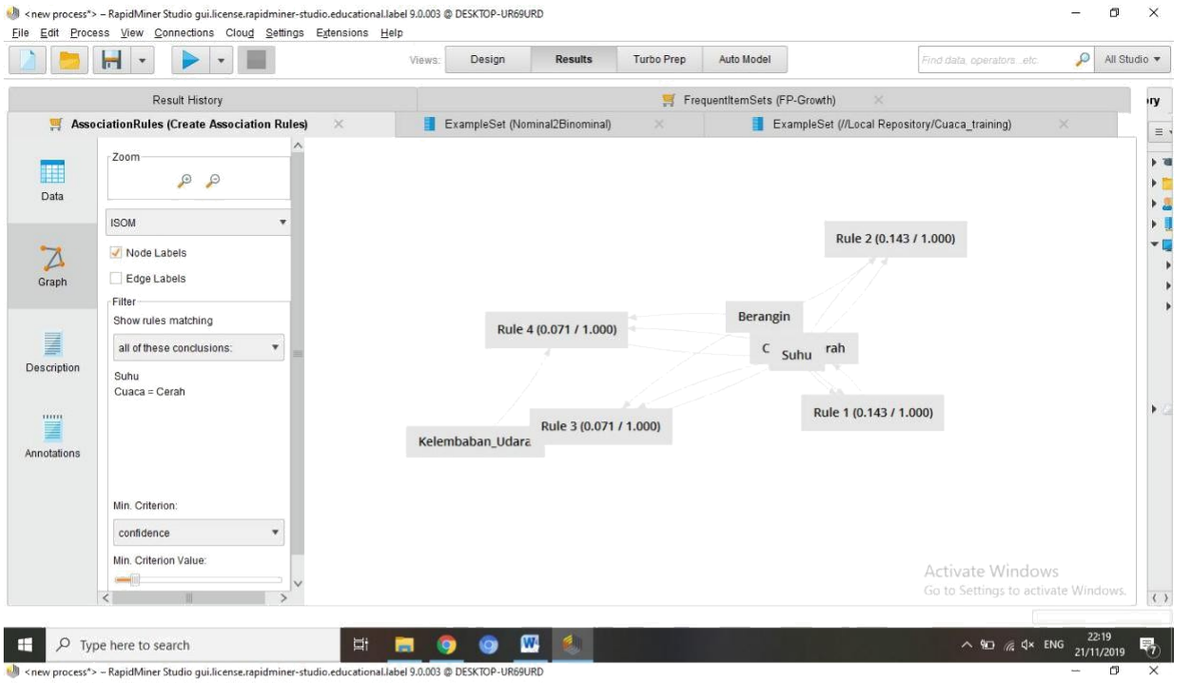

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc.
All Studio
Repository
Import Data
Connections (USER)
data (USER)
processes (USER)
Tabel_CuacaTesting
Tabel_CuacaTraining
Tabel_SekolahTesting
Tabel_SekolahTraining
Cloud Repository (disconnected)
Operators
nomin
Blending (11)
Attributes (10)
Types (10)
Numerical to Binom
Numerical to Polyn
Nominal to Binomir
We found "Edda - Extensions for Binomin..." in the Marketplace. Show me!
Process
Process ▸ Preprocessing
100%
Selection 1
Selection 2
DiscretizebyFreque...
Nominal2Binominal
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Preprocessing (Select Subprocess)
select which
1
Help
Select Subprocess
RapidMiner Studio Core
Tags: Branches
Synopsis
This operator consists of multiple subprocesses but it executes only one subprocess at a time. This operator is similar to a switch, where
Type here to search
ENG
22:08
21/11/2019

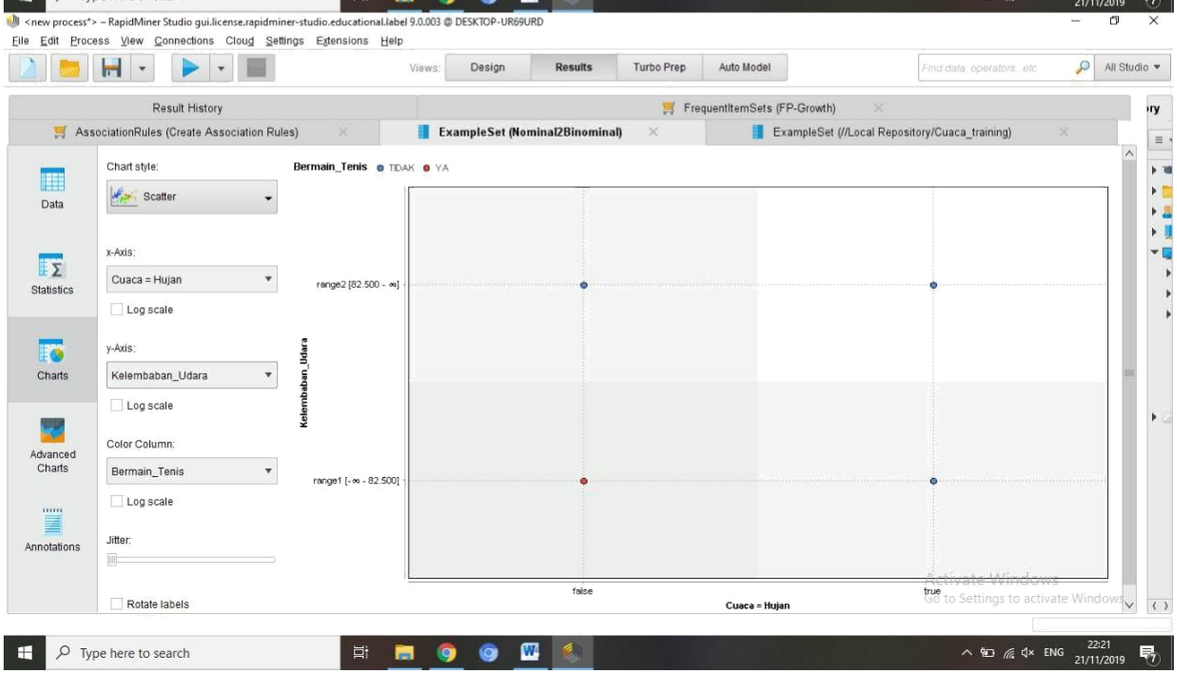

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc.
All Studio
Repository
Import Data
Connections (USER)
data (USER)
processes (USER)
Tabel_CuacaTesting
Tabel_CuacaTraining
Tabel_SekolahTesting
Tabel_SekolahTraining
Cloud Repository (disconnected)
Operators
fp
Modeling (1)
Associations (1)
FP-Growth
No results were found.
Process
Process ▸
100%
Process
Retrieve Tabel_Cuac...
Preprocessing
FP-Growth
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity
init
logfile
resultfile
random seed
2001
send mail
never
encoding
SYSTEM
Hide advanced parameters
Change compatibility (9.0.003)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.
Activate Windows
Go to Settings to activate Windows.
Description
Type here to search
ENG
22:09
21/11/2019


<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Repository
Import Data
Connections (USER)
data (USER)
processes (USER)
Tabel_CuacaTesting
Tabel_CuacaTraining
Tabel_SekolahTesting
Tabel_SekolahTraining
Cloud Repository (disconnected)
Operators
create
Associations (1)
Create Association Ru
Scoring (1)
Confidences (1)
Create Threshold
We found "Tacl", "MeaningCloud Text Analytics" and one more result in the Marketplace. Show me!
Process
Process
Retrieve Tabel_Cuac...
Preprocessing
FP-Growth
Create Association ...
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity init
logfile
resultfile
random seed 2001
send mail never
encoding SYSTEM
Hide advanced parameters
Change compatibility (9.0.003)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.
Description
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG 22:13 21/11/2019

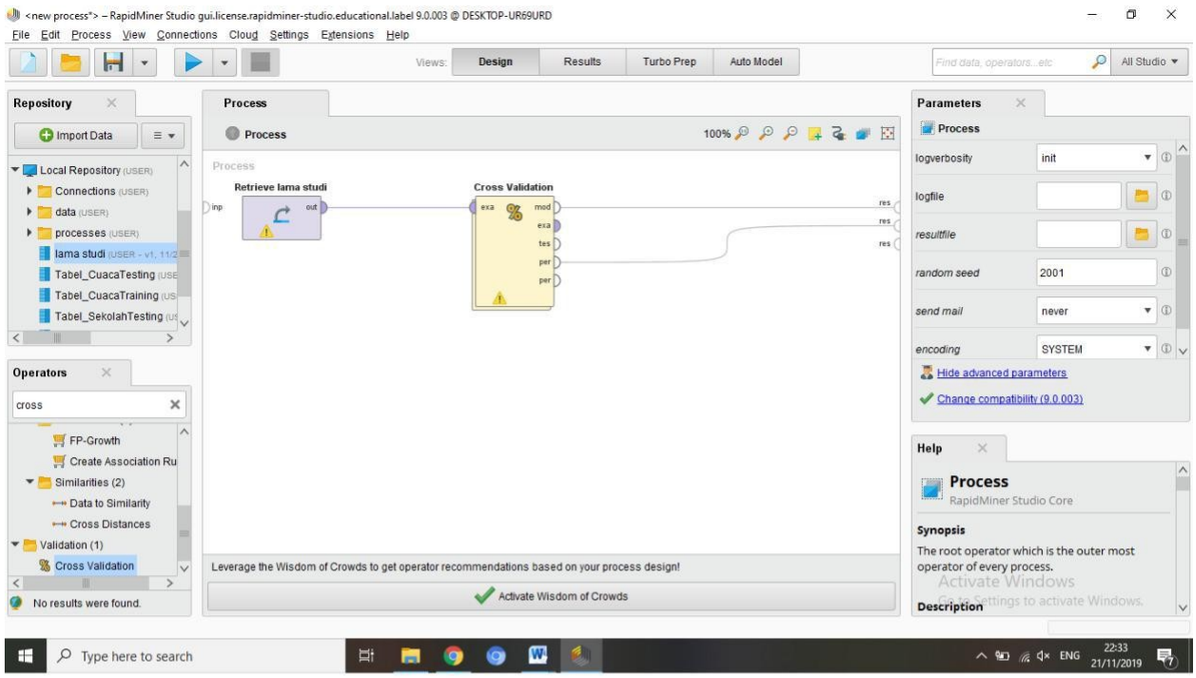

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
ExampleSet (Nominal2Binominal)
ExampleSet (//Local Repository/Cuaca_training)
Result History
FrequentItemSets (FP-Growth)
AssociationRules (Create Association Rules)
Data
Annotations
No. of Sets: 26
Total Max. Size: 4
Min. Size: 1
Max. Size: 4
Contains Item:
Update View
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
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
Tabel_CuacaTesting
Tabel_CuacaTraining
Tabel_SekolahTesting
Tabel_SekolahTraining
Cloud Repository (disconnected)
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG 22:15 21/11/2019

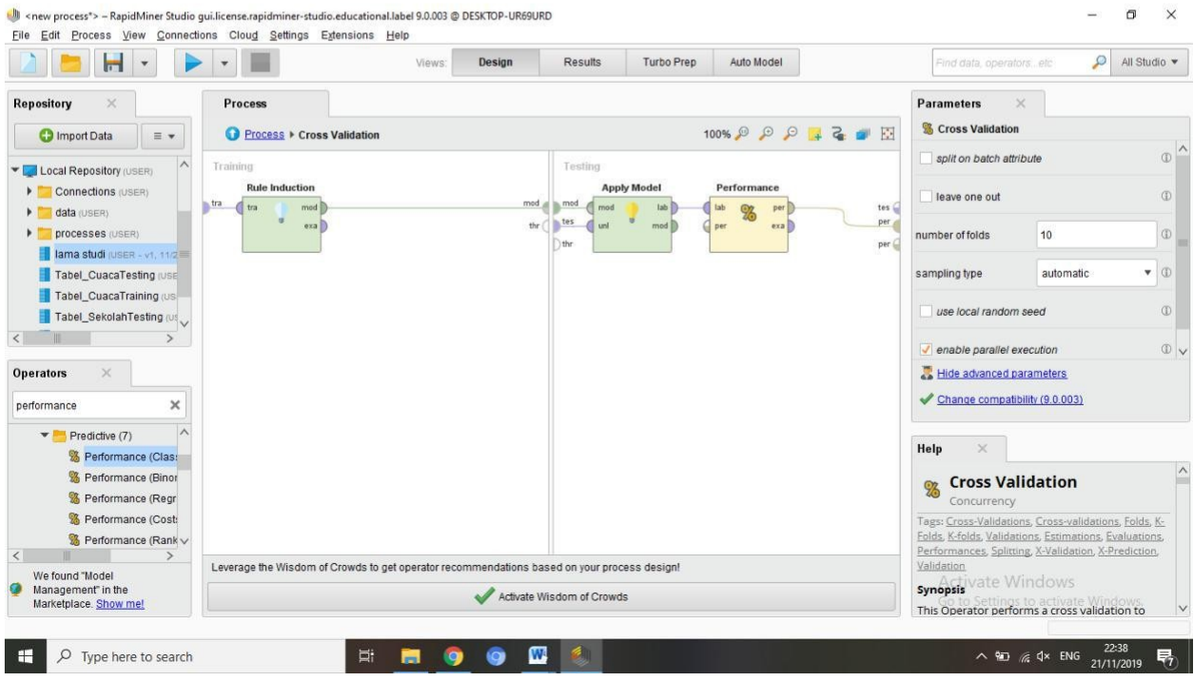

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Result History
FrequentItemSets (FP-Growth)
AssociationRules (Create Association Rules)
ExampleSet (Nominal2Binominal)
ExampleSet (//Local Repository/Cuaca_training)
Data
Graph
Description
Annotations
Show rules matching
all of these conclusions:
Suhu
Cuaca = Cerah
Min. Criterion:
confidence
Min. Criterion Value:
Premises | Conclusion | Support | Confidence | LaPlace | Gain | p-s
Berangin, Suhu | Cuaca = Cerah | 0.143 | 1 | 1 | -0.143 | 0.092
Berangin, Cuaca = Cerah | Suhu | 0.143 | 1 | 1 | -0.143 | 0.082
Kelembaban_Udara, Berangin, Suhu | Cuaca = Cerah | 0.071 | 1 | 1 | -0.071 | 0.046
Kelembaban_Udara, Berangin, Cuaca = Cerah | Suhu | 0.071 | 1 | 1 | -0.071 | 0.041
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG 22:19 21/11/2019

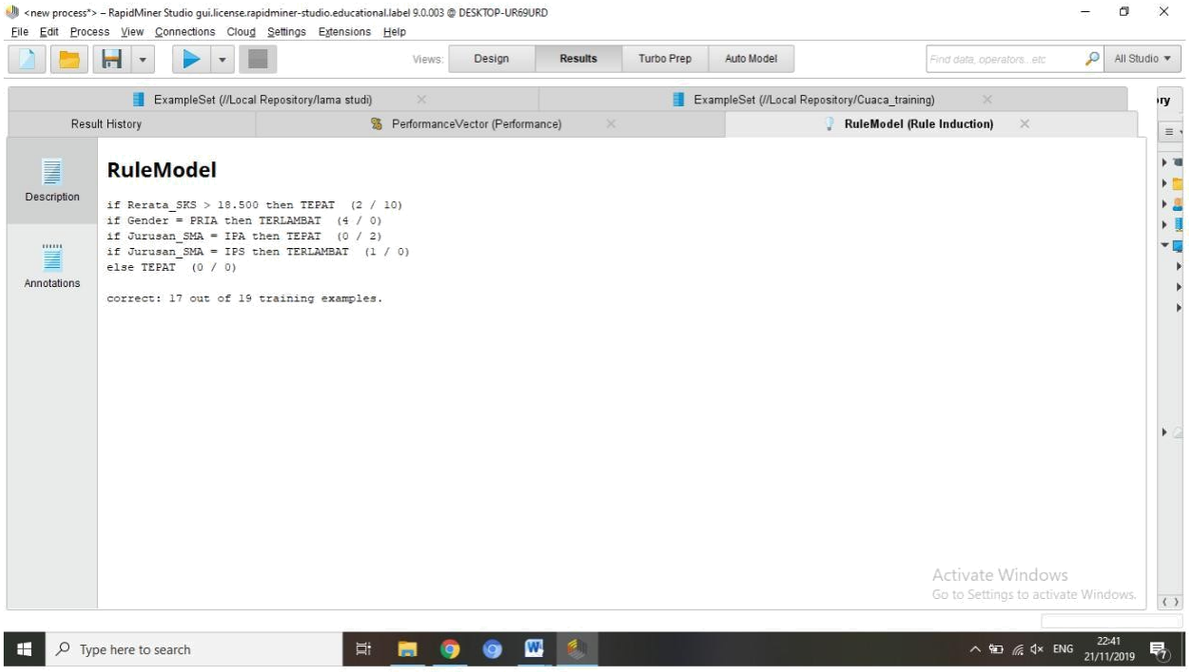

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Result History
FrequentItemSets (FP-Growth)
AssociationRules (Create Association Rules)
ExampleSet (Nominal2Binominal)
ExampleSet (//Local Repository/Cuaca_training)
Data
Graph
Description
Annotations
Zoom
ISOM
Node Labels
Edge Labels
Filter
Show rules matching
all of these conclusions:
Suhu
Cuaca = Cerah
Min. Criterion:
confidence
Min. Criterion Value:
Rule 2 (0.143 / 1.000)
Berangin
Rule 4 (0.071 / 1.000)
Suhu
Rule 1 (0.143 / 1.000)
Rule 3 (0.071 / 1.000)
Kelembaban_Udara
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
22:19
21/11/2019

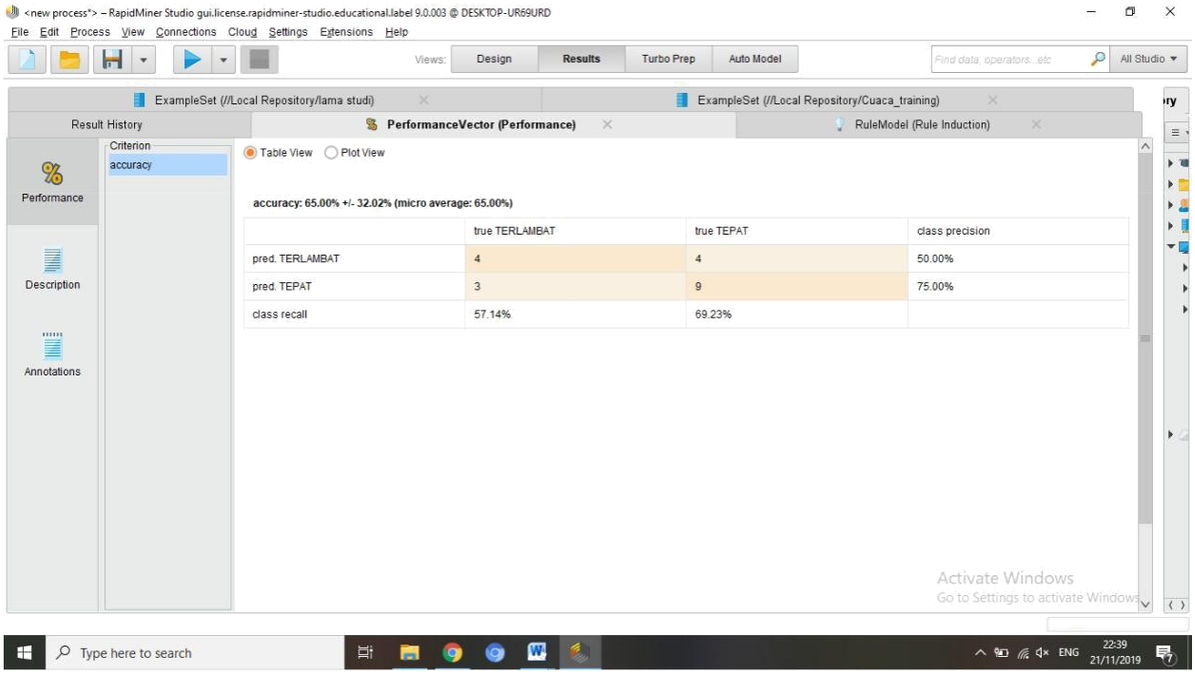

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Result History
FrequentItemSets (FP-Growth)
AssociationRules (Create Association Rules)
ExampleSet (Nominal2Binominal)
ExampleSet (//Local Repository/Cuaca_training)
Data
Statistics
Charts
Advanced Charts
Annotations
Chart style:
Scatter
x-Axis:
Cuaca = Hujan
Log scale
y-Axis:
Kelembaban_Udara
Log scale
Color Column:
Bermain_Tenis
Log scale
Jitter:
Rotate labels
Bermain_Tenis TIDAK YA
range2 [82.500 - ∞]
range1 [-∞ - 82.500]
Kelembaban_Udara
false
true
Cuaca = Hujan
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
22:21
21/11/2019

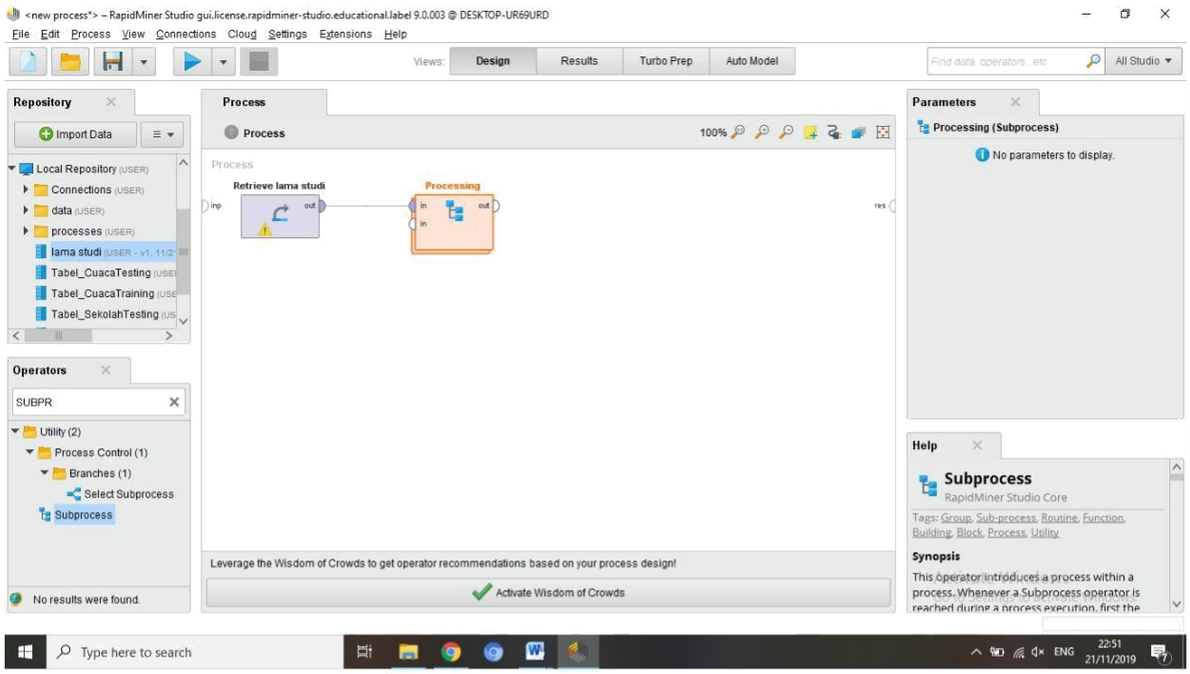
TUGAS

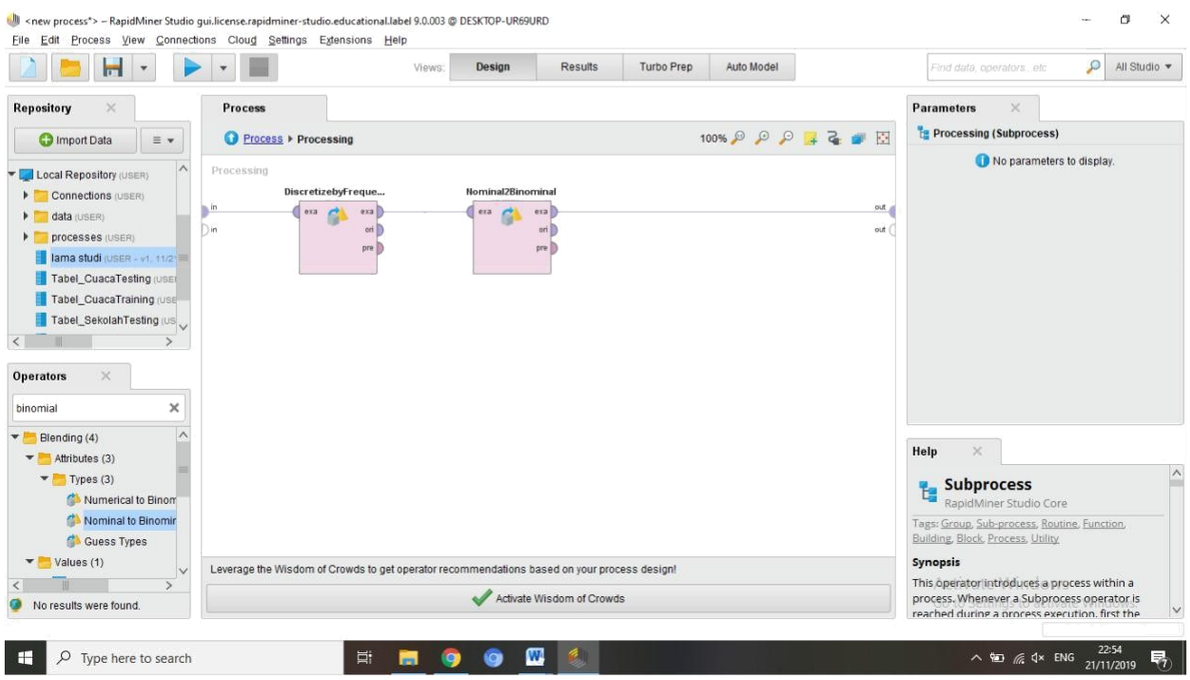

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Repository
Import Data
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
lama studi (USER - v1, 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (US
Tabel_SekolahTesting (US
Operators
cross
FP-Growth
Create Association Ru
Similarities (2)
Data to Similarity
Cross Distances
Validation (1)
Cross Validation
No results were found.
Process
Process
100%
Process
Retrieve lama studi
Cross Validation
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity init
logfile
resultfile
random seed 2001
send mail never
encoding SYSTEM
Hide advanced parameters
Change compatibility (9.0.003)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.
Description
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
22:33
21/11/2019

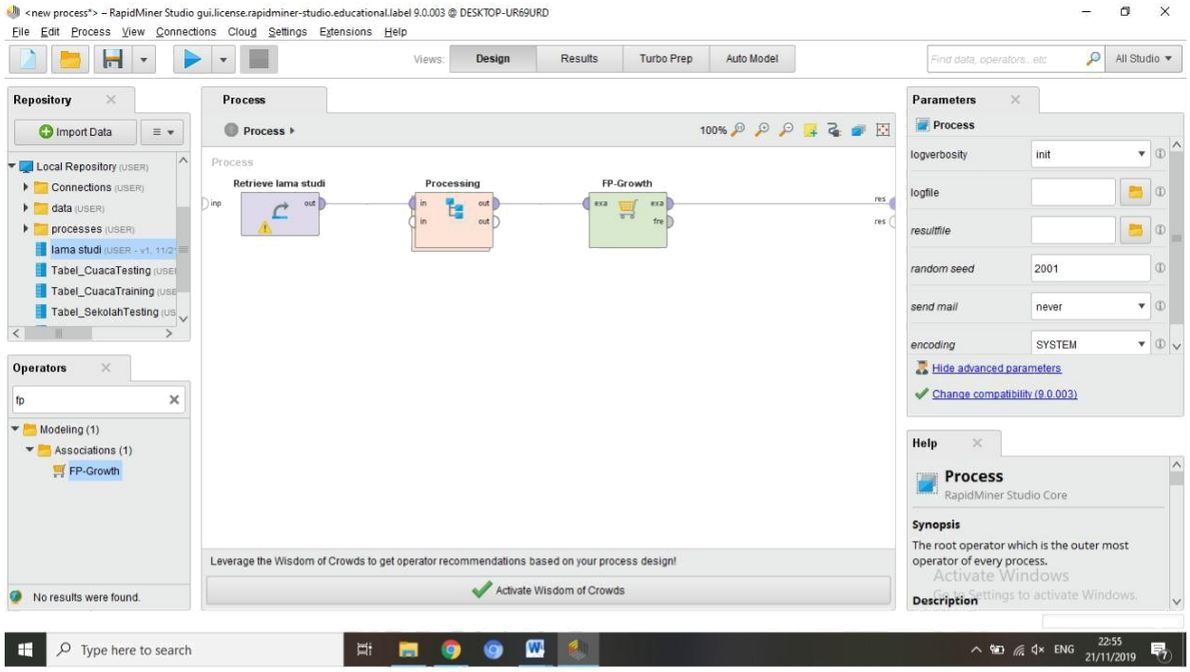

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Repository
Import Data
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
lama studi (USER - v1, 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (US
Tabel_SekolahTesting (US
Operators
performance
Predictive (7)
Performance (Clas
Performance (Binor
Performance (Regr
Performance (Cost
Performance (Rank
We found "Model Management" in the Marketplace. Show me!
Process
Process ▸ Cross Validation
100%
Training
Testing
Rule Induction
Apply Model
Performance
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Cross Validation
split on batch attribute
leave one out
number of folds 10
sampling type automatic
use local random seed
enable parallel execution
Hide advanced parameters
Change compatibility (9.0.003)
Help
Cross Validation
Concurrency
Tags: Cross-Validations, Cross-validations, Folds, K-Folds, K-folds, Validations, Estimations, Evaluations, Performances, Splitting, X-Validation, X-Prediction, Validation
Synopsis
This Operator performs a cross validation to
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
22:38
21/11/2019

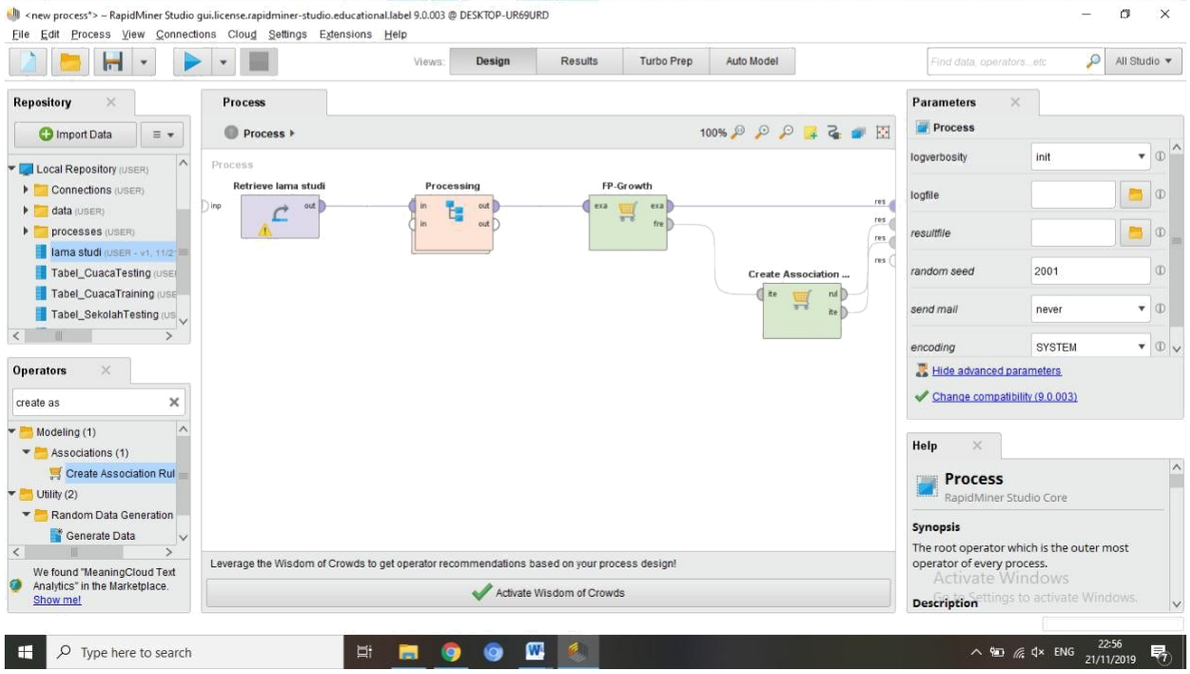

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
ExampleSet (//Local Repository/lama studi)
ExampleSet (//Local Repository/Cuaca_training)
Result History
PerformanceVector (Performance)
RuleModel (Rule Induction)
Description
Annotations
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.
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
22:41
21/11/2019


<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
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/lama studi)
ExampleSet (//Local Repository/Cuaca_training)
Result History
PerformanceVector (Performance)
RuleModel (Rule Induction)
Performance
Description
Annotations
Criterion
accuracy
Table View
Plot View
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%
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
22:39
21/11/2019


<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
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
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
lama studi (USER - v1. 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (USE
Tabel_SekolahTesting (US
Operators
SUBPR
Utility (2)
Process Control (1)
Branches (1)
Select Subprocess
Subprocess
No results were found.
Process
Process
100%
Retrieve lama studi
Processing
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Processing (Subprocess)
No parameters to display.
Help
Subprocess
RapidMiner Studio Core
Tags: Group, Sub-process, Routine, Function, Building, Block, Process, Utility
Synopsis
This operator introduces a process within a process. Whenever a Subprocess operator is
Type here to search
ENG
22:51
21/11/2019

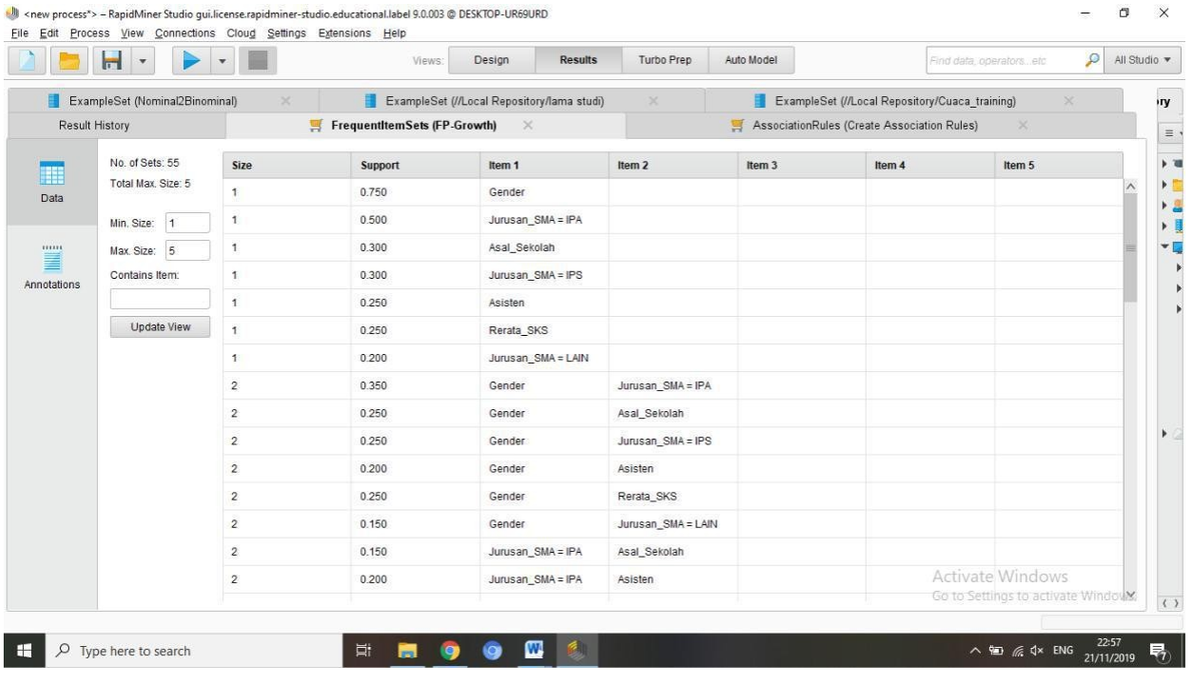

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Repository
Import Data
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
lama studi (USER - v1. 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (USE
Tabel_SekolahTesting (US
Operators
binomial
Blending (4)
Attributes (3)
Types (3)
Numerical to Binom
Nominal to Binomir
Guess Types
Values (1)
No results were found.
Process
Process ▸ Processing
100%
DiscretizebyFreque...
Nominal2Binominal
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Processing (Subprocess)
No parameters to display.
Help
Subprocess
RapidMiner Studio Core
Tags: Group, Sub-process, Routine, Function, Building, Block, Process, Utility
Synopsis
This operator introduces a process within a process. Whenever a Subprocess operator is
Type here to search
ENG
22:54
21/11/2019


<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
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
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
lama studi (USER - v1, 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (USE
Tabel_SekolahTesting (US
Operators
fp
Modeling (1)
Associations (1)
FP-Growth
No results were found.
Process
Process
100%
Process
Retrieve lama studi
Processing
FP-Growth
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity
init
logfile
resultfile
random seed
2001
send mail
never
encoding
SYSTEM
Hide advanced parameters
Change compatibility (9.0.003)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.
Activate Windows
Description
Type here to search
ENG
22:55
21/11/2019


<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
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
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
lama studi (USER - v1, 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (USE
Tabel_SekolahTesting (US
Operators
create as
Modeling (1)
Associations (1)
Create Association Rul
Utility (2)
Random Data Generation
Generate Data
We found "MeaningCloud Text Analytics" in the Marketplace.
Show me!
Process
Process
100%
Process
Retrieve lama studi
Processing
FP-Growth
Create Association ...
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity
init
logfile
resultfile
random seed
2001
send mail
never
encoding
SYSTEM
Hide advanced parameters
Change compatibility (9.0.003)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.
Activate Windows
Description
Type here to search
ENG
22:56
21/11/2019

Number of bins = 2

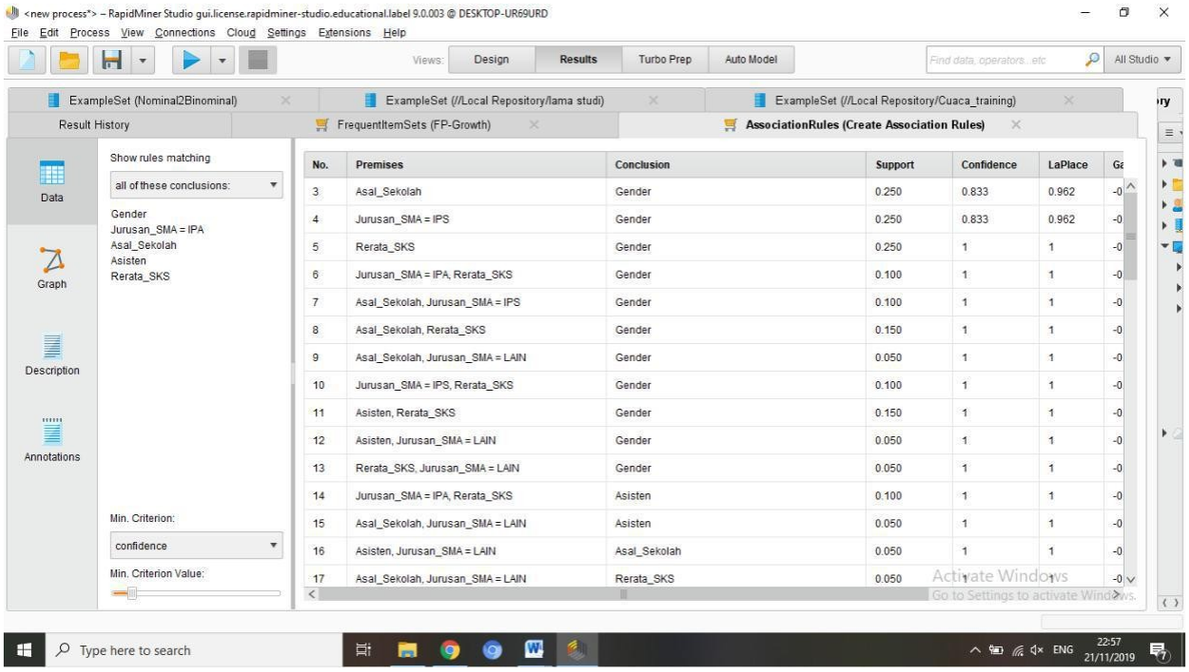
Frequent Item Set (FP-Growth)



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

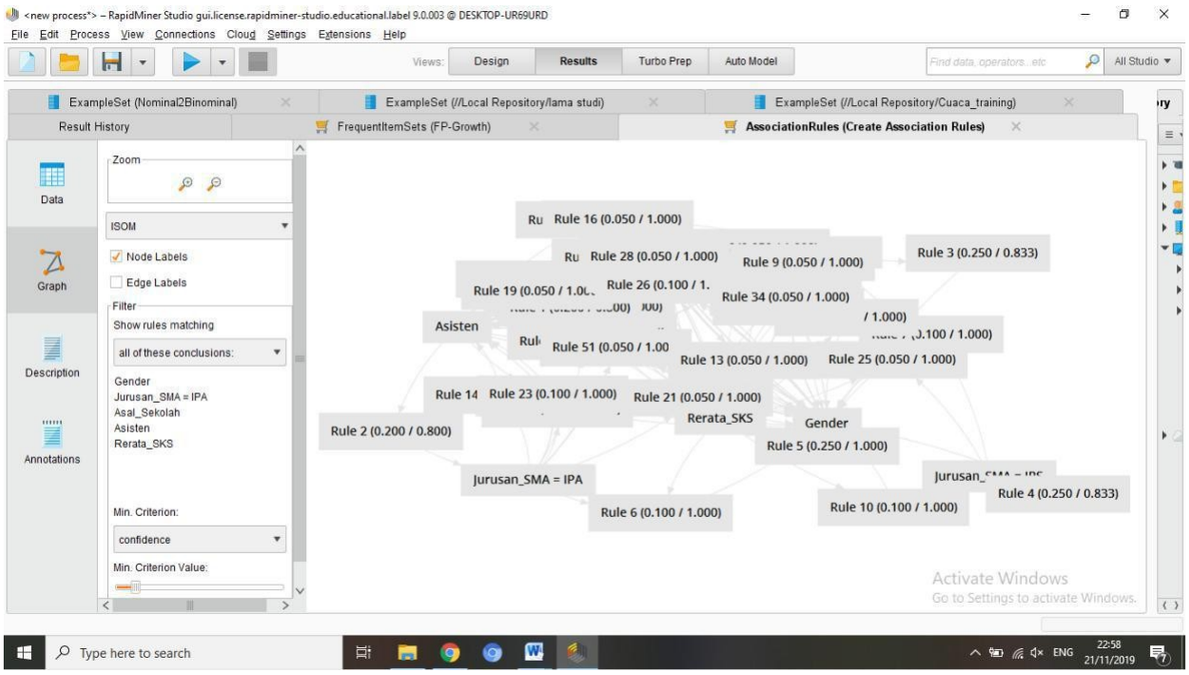
Association Rules (Create Association Rules)

Table View

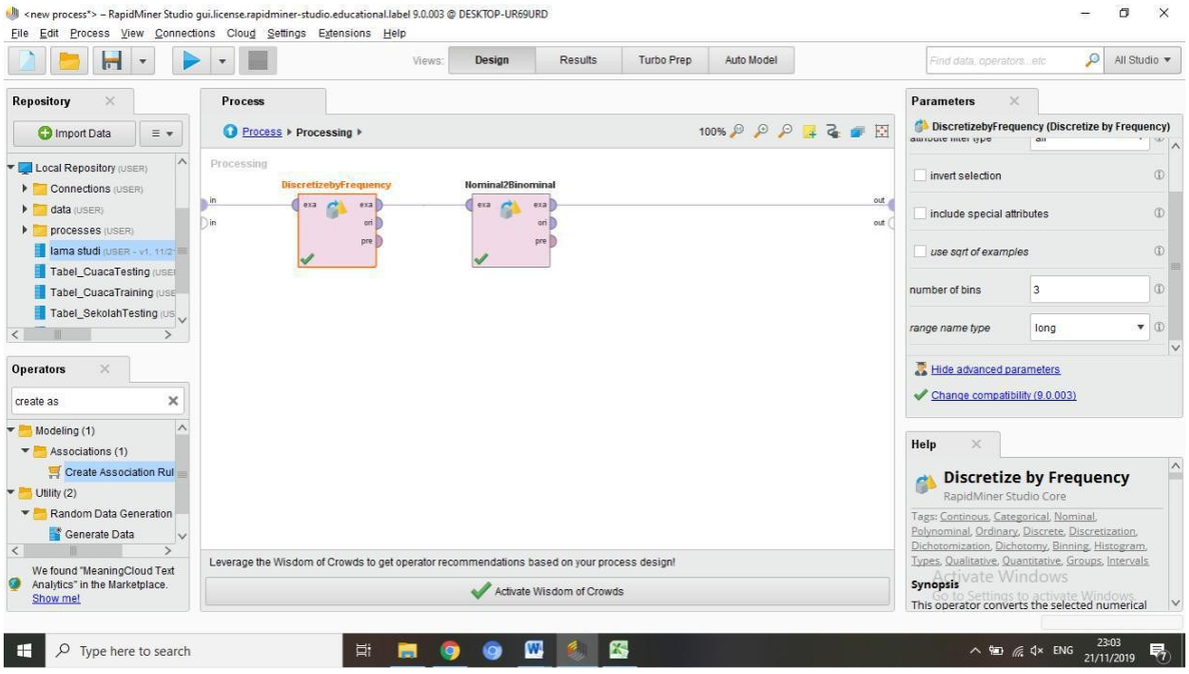


No.	Premises	Conclusion	Support	Confidence	LaPlace	Ga
3	Asal_Sekolah	Gender	0.250	0.833	0.962	-0
4	Jurusan_SMA = IPS	Gender	0.250	0.833	0.962	-0
5	Rerata_SKS	Gender	0.250	1	1	-0
6	Jurusan_SMA = IPA, Rerata_SKS	Gender	0.100	1	1	-0
7	Asal_Sekolah, Jurusan_SMA = IPS	Gender	0.100	1	1	-0
8	Asal_Sekolah, Rerata_SKS	Gender	0.150	1	1	-0
9	Asal_Sekolah, Jurusan_SMA = LAIN	Gender	0.050	1	1	-0
10	Jurusan_SMA = IPS, Rerata_SKS	Gender	0.100	1	1	-0
11	Asisten, Rerata_SKS	Gender	0.150	1	1	-0
12	Asisten, Jurusan_SMA = LAIN	Gender	0.050	1	1	-0
13	Rerata_SKS, Jurusan_SMA = LAIN	Gender	0.050	1	1	-0
14	Jurusan_SMA = IPA, Rerata_SKS	Asisten	0.100	1	1	-0
15	Asal_Sekolah, Jurusan_SMA = LAIN	Asisten	0.050	1	1	-0
16	Asisten, Jurusan_SMA = LAIN	Asal_Sekolah	0.050	1	1	-0
17	Asal_Sekolah, Jurusan_SMA = LAIN	Rerata_SKS	0.050	1	1	-0

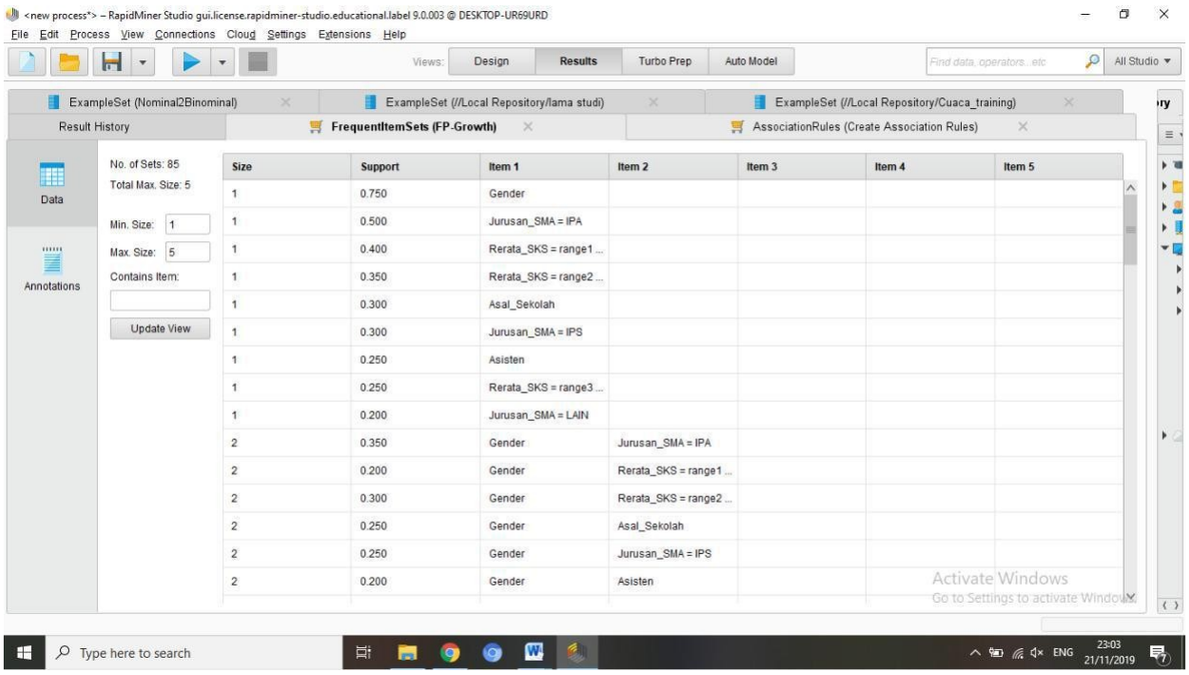
Graph View



b. Number of bins = 3

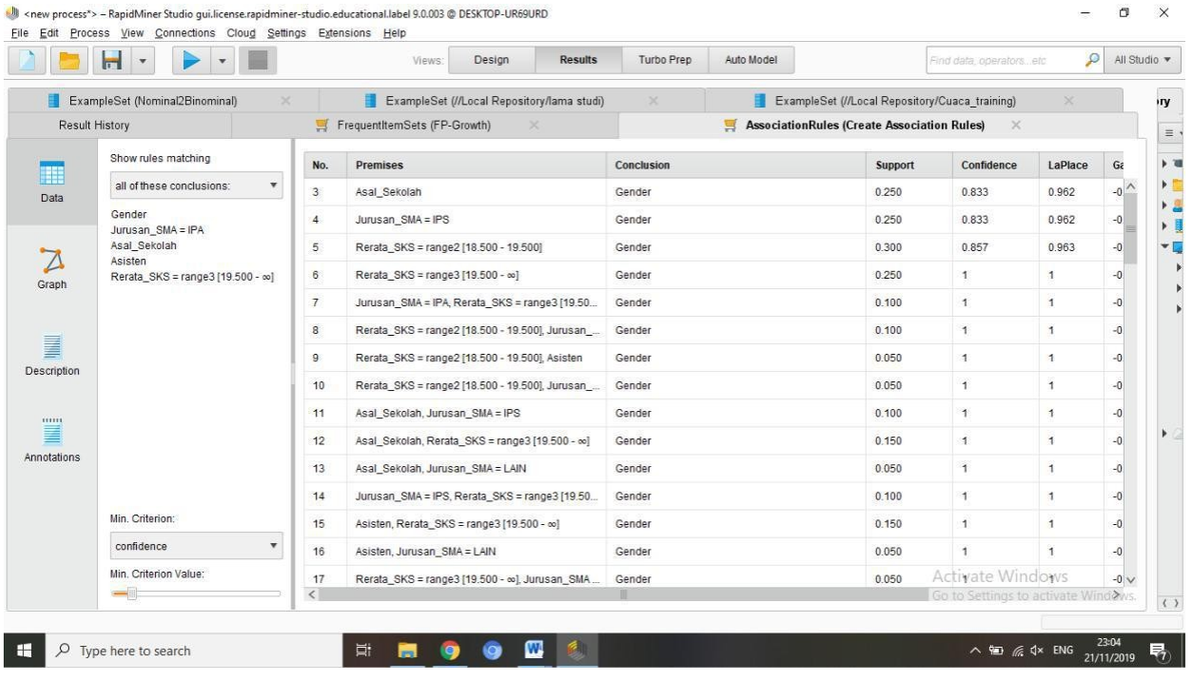


Frequent Item Set (FP-Growth)

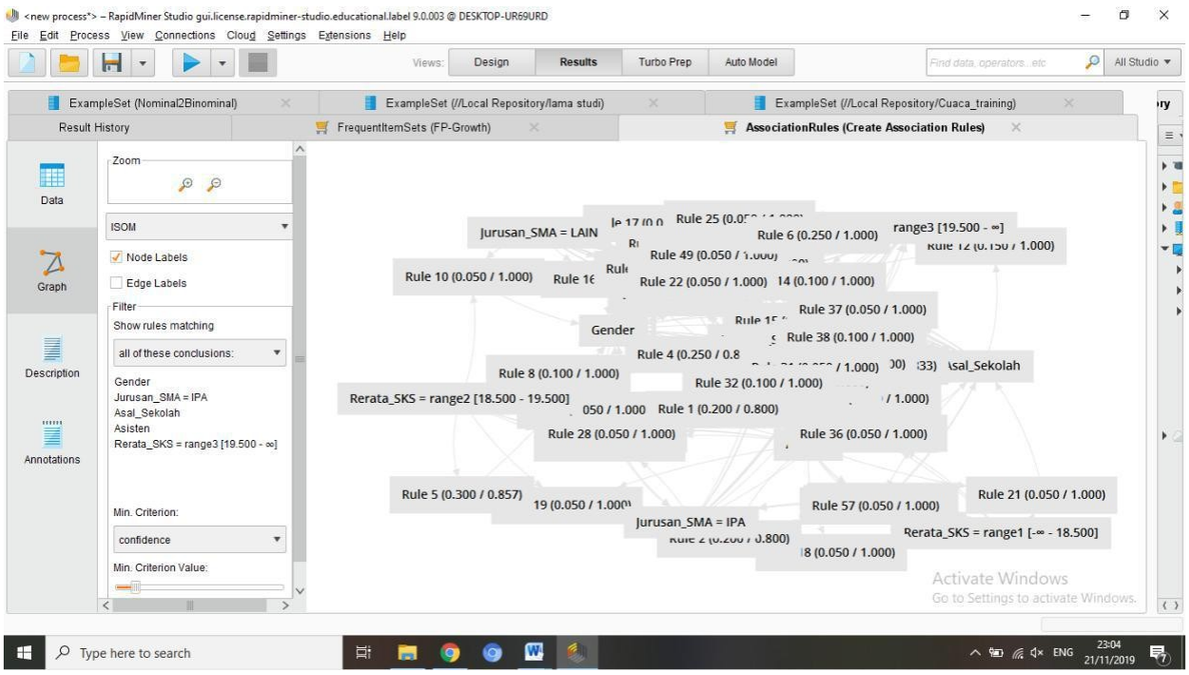


Association Rules (Create Association Rules)

Table View

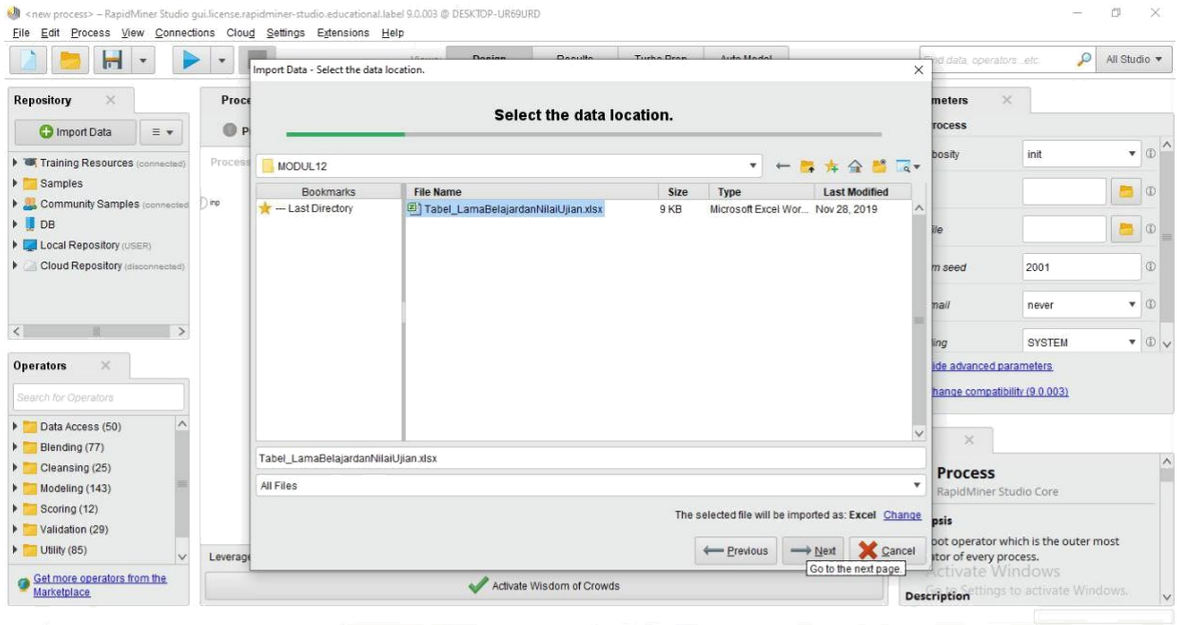


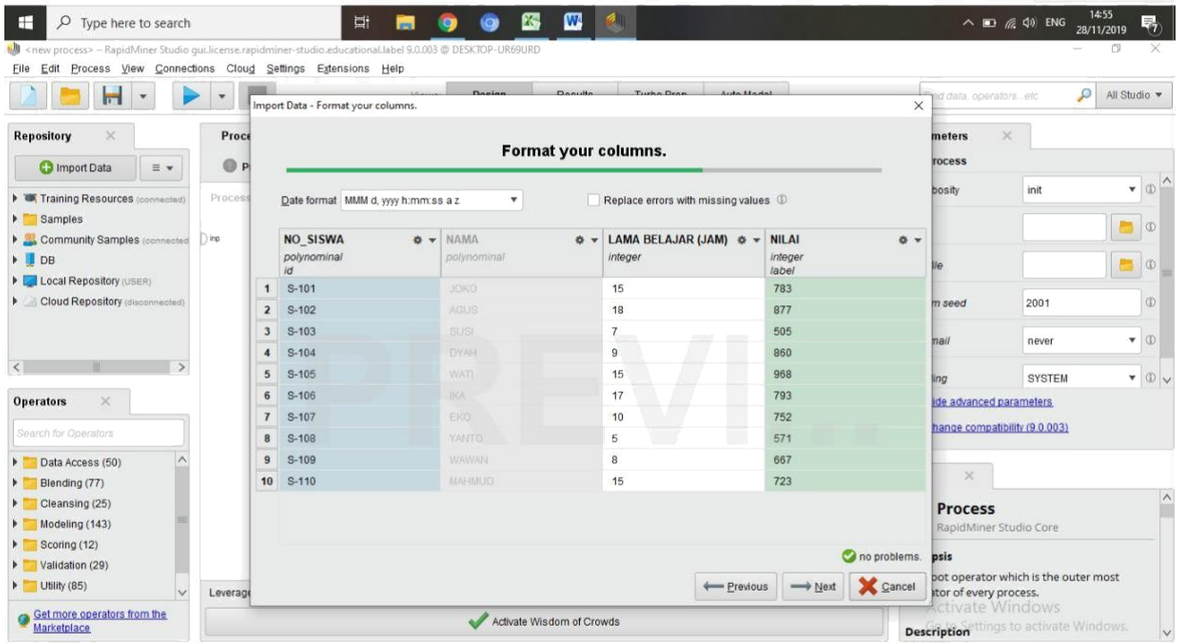
Graph View

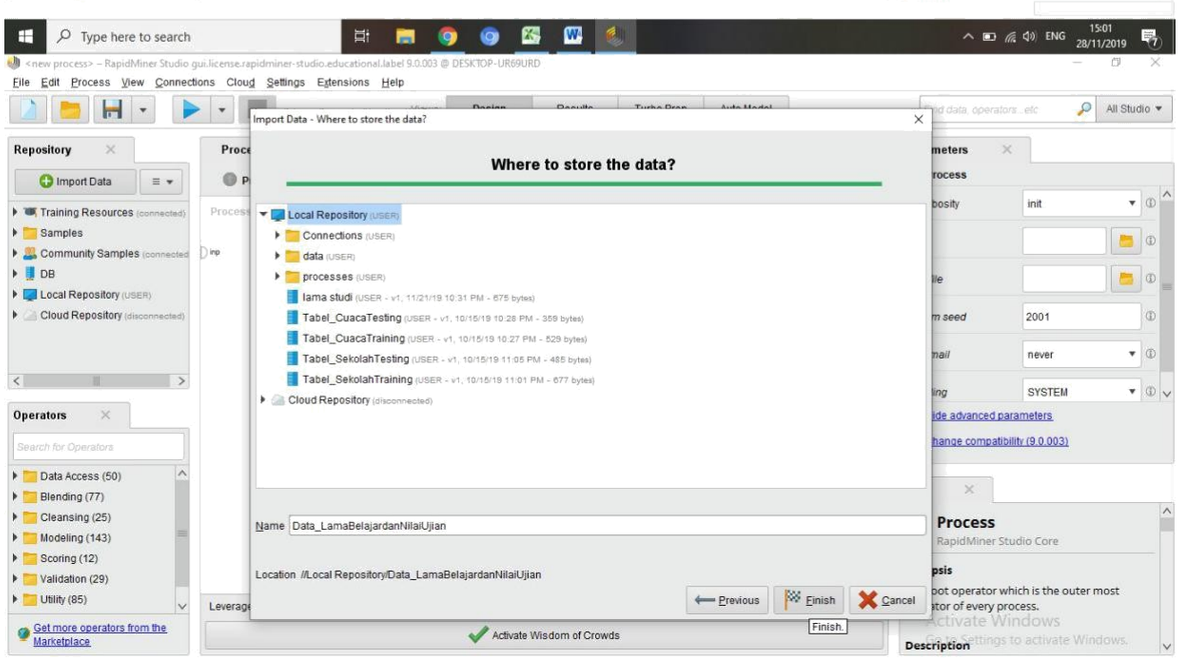

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
All Studio
ExampleSet (Nominal2Binominal)
ExampleSet (//Local Repository/lama studi)
ExampleSet (//Local Repository/Cuaca_training)
Result History
FrequentItemSets (FP-Growth)
AssociationRules (Create Association Rules)
Data
Graph
Description
Annotations
Zoom
ISOM
Node Labels
Edge Labels
Filter
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:
Jurusan_SMA = LAIN
Rule 25 (0.0
Rule 6 (0.250 / 1.000)
range3 [19.500 - ∞]
Rule 12 (0.150 / 1.000)
Rule 49 (0.050 / 1.000)
Rule 10 (0.050 / 1.000)
Rule 22 (0.050 / 1.000)
Rule 37 (0.050 / 1.000)
Gender
Rule 38 (0.100 / 1.000)
Rule 4 (0.250 / 0.8
Rule 8 (0.100 / 1.000)
Rule 32 (0.100 / 1.000)
Asal_Sekolah
Rerata_SKS = range2 [18.500 - 19.500]
Rule 1 (0.200 / 0.800)
Rule 28 (0.050 / 1.000)
Rule 36 (0.050 / 1.000)
Rule 5 (0.300 / 0.857)
Rule 57 (0.050 / 1.000)
Rule 21 (0.050 / 1.000)
Jurusan_SMA = IPA
Rerata_SKS = range1 [-∞ - 18.500]
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
23:04
21/11/2019

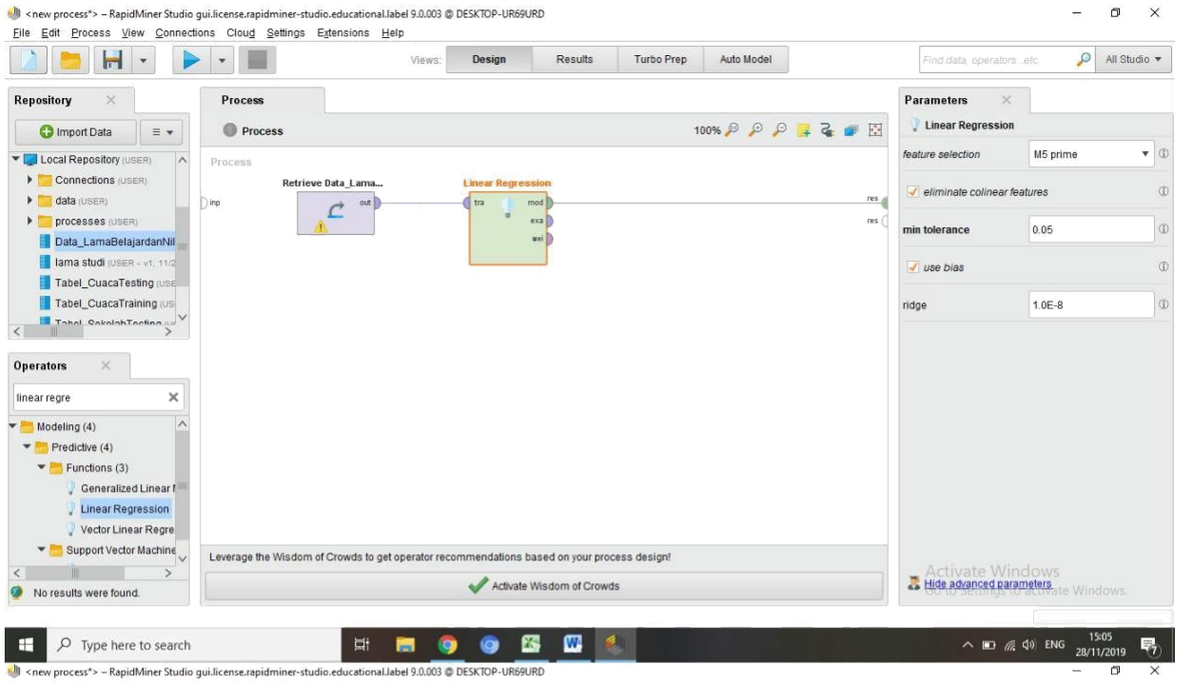
MODUL 12

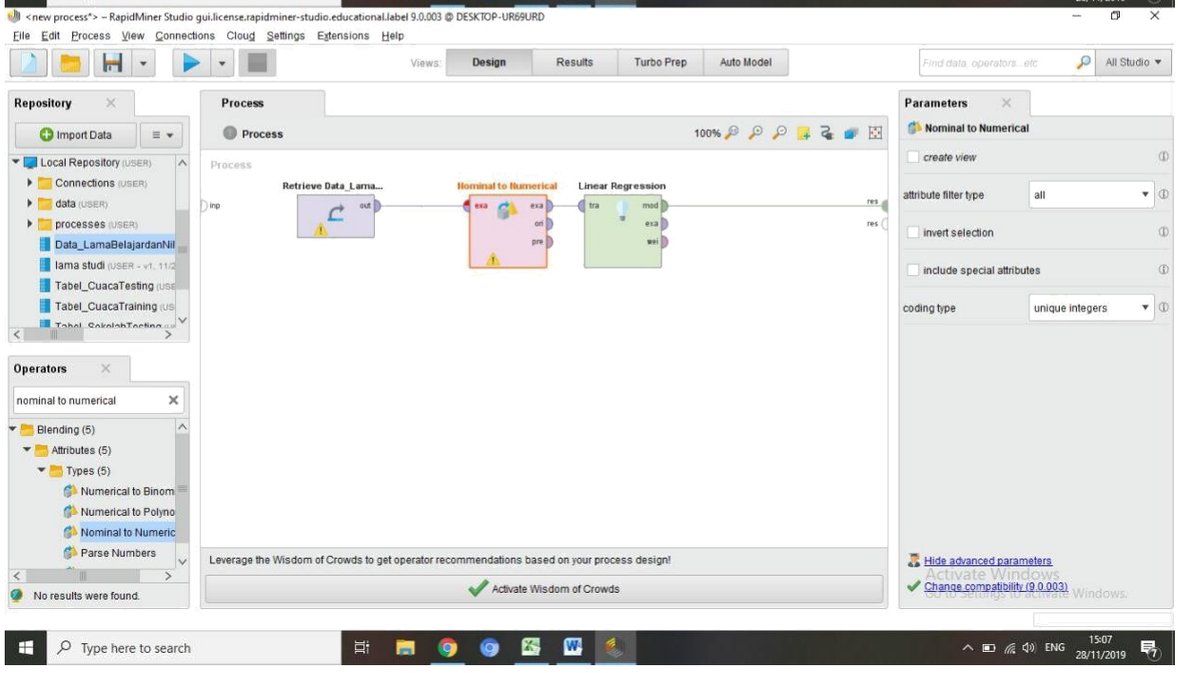
	A	B	C	D
1	NO_SISWA	NAMA	LAMA BELAJAR (JAM)	NILAI
2	S-101	JOKO	15	783
3	S-102	AGUS	18	877
4	S-103	SUSI	7	505
5	S-104	DYAH	9	860
6	S-105	WATI	15	968
7	S-106	IKA	17	793
8	S-107	EKO	10	752
9	S-108	YANTO	5	571
10	S-109	WAWAN	8	667
11	S-110	MAHMUD	15	723


Import Data - Select the data location.
Select the data location.
MODUL12
Bookmarks
File Name
Size
Type
Last Modified
Last Directory
Tabel_LamaBelajardanNilaiUjian.xlsx
9 KB
Microsoft Excel Wor...
Nov 28, 2019
Tabel_LamaBelajardanNilaiUjian.xlsx
All Files
The selected file will be imported as: Excel Change
Previous
Next
Cancel
Go to the next page
Activate Wisdom of Crowds
Process
RapidMiner Studio Core
Description


Import Data - Format your columns.
Format your columns.
Date format MMM d, yyyy h:mm:ss a z
Replace errors with missing values
NO_SISWA
polynominal
id
NAMA
polynominal
LAMA BELAJAR (JAM)
integer
NILAI
integer
label
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.
Previous
Next
Cancel
Activate Wisdom of Crowds
Process
RapidMiner Studio Core
Description

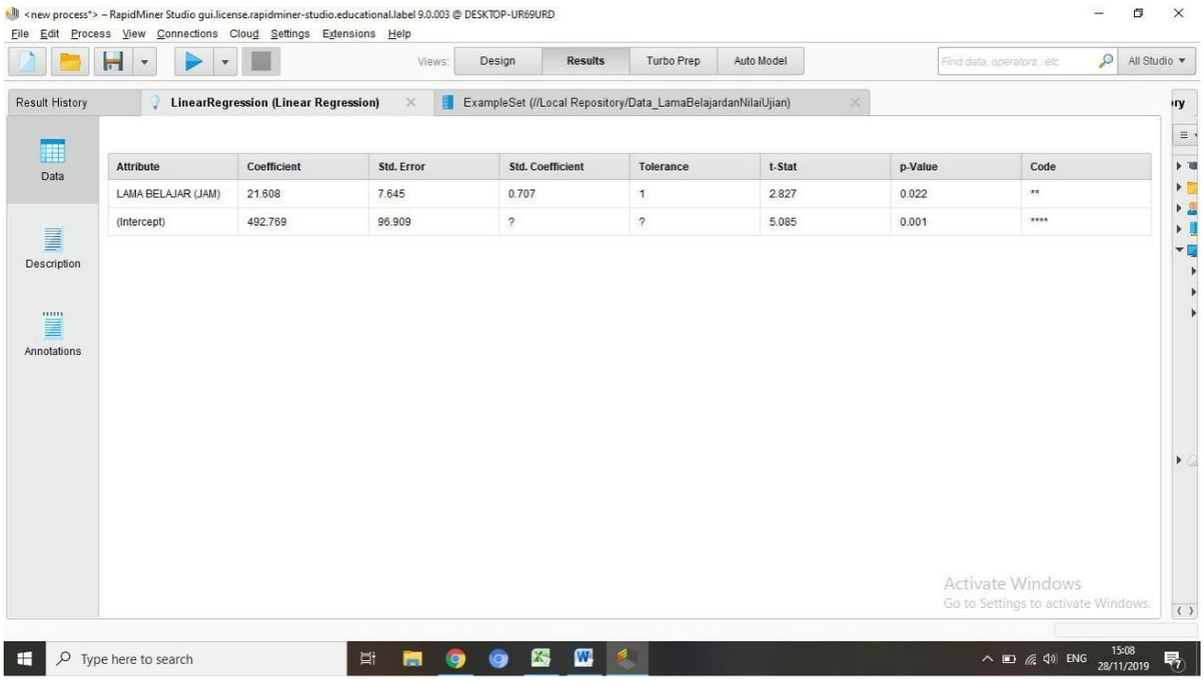

Import Data - Where to store the data?
Where to store the data?
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
lama studi (USER - v1, 11/21/19 10:31 PM - 675 bytes)
Tabel_CuacaTesting (USER - v1, 10/15/19 10:28 PM - 359 bytes)
Tabel_CuacaTraining (USER - v1, 10/15/19 10:27 PM - 529 bytes)
Tabel_SekolahTesting (USER - v1, 10/15/19 11:05 PM - 485 bytes)
Tabel_SekolahTraining (USER - v1, 10/15/19 11:01 PM - 677 bytes)
Cloud Repository (disconnected)
Name Data_LamaBelajardanNilaiUjian
Location //Local Repository/Data_LamaBelajardanNilaiUjian
Previous
Finish
Cancel
Finish.
Activate Wisdom of Crowds
Process
RapidMiner Studio Core
Description


<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
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
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
Data_LamaBelajardanNil
lama studi (USER - v1, 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (US
Operators
linear regre
Modeling (4)
Predictive (4)
Functions (3)
Generalized Linear
Linear Regression
Vector Linear Regre
Support Vector Machine
No results were found.
Process
Process
100%
Process
Retrieve Data_Lama...
Linear Regression
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Linear Regression
feature selection
M5 prime
eliminate colinear features
min tolerance
0.05
use bias
ridge
1.0E-8
Activate Windows
Hide advanced parameters
Type here to search
ENG
15:05
28/11/2019

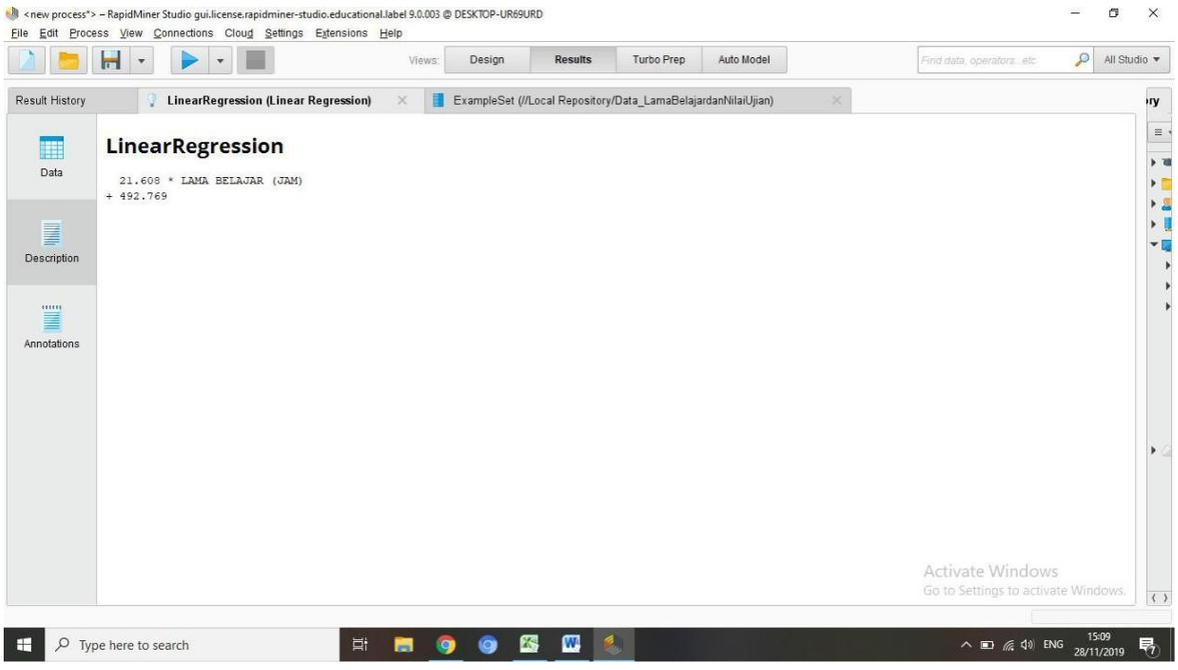

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Repository
Import Data
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
Data_LamaBelajardanNil
lama studi (USER - v1, 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (US
Operators
nominal to numerical
Blending (5)
Attributes (5)
Types (5)
Numerical to Binom
Numerical to Polyno
Nominal to Numeric
Parse Numbers
No results were found.
Process
Process
100%
Process
Retrieve Data_Lama...
Nominal to Numerical
Linear Regression
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Nominal to Numerical
create view
attribute filter type
all
invert selection
include special attributes
coding type
unique integers
Hide advanced parameters
Change compatibility (9.0.003)
Activate Windows
Type here to search
ENG
15:07
28/11/2019

Hasil proses regresi linier :

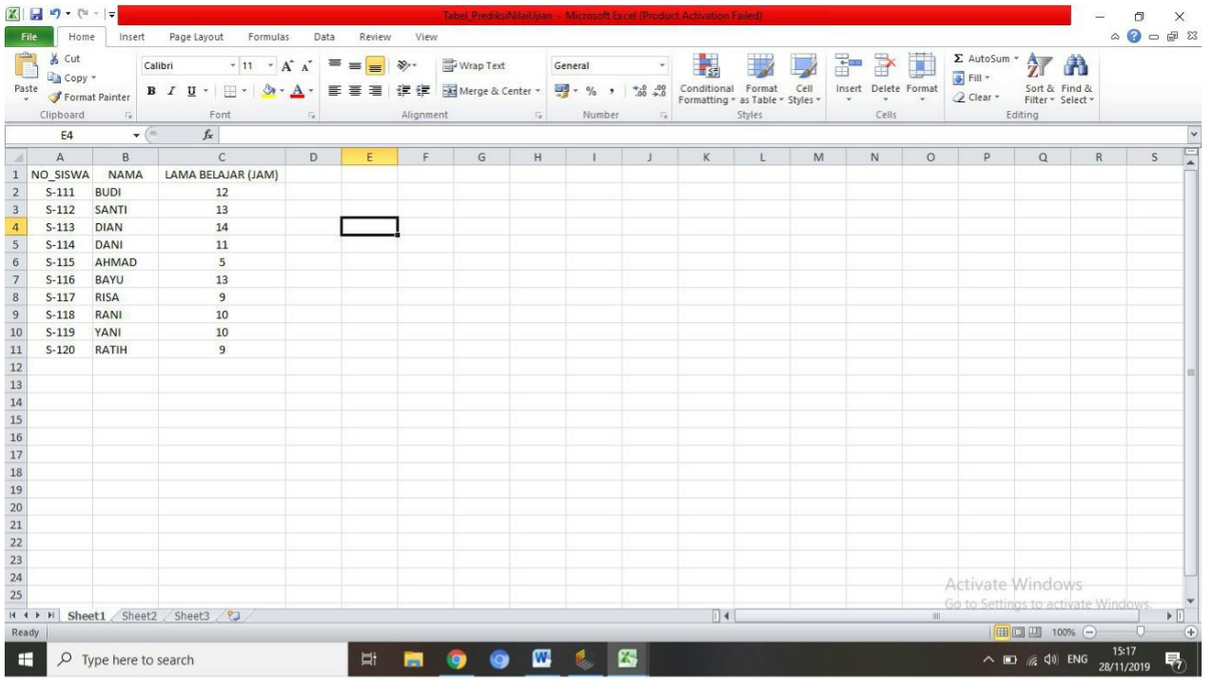
a) Table View (mencari besarnya nilai t-hitung)



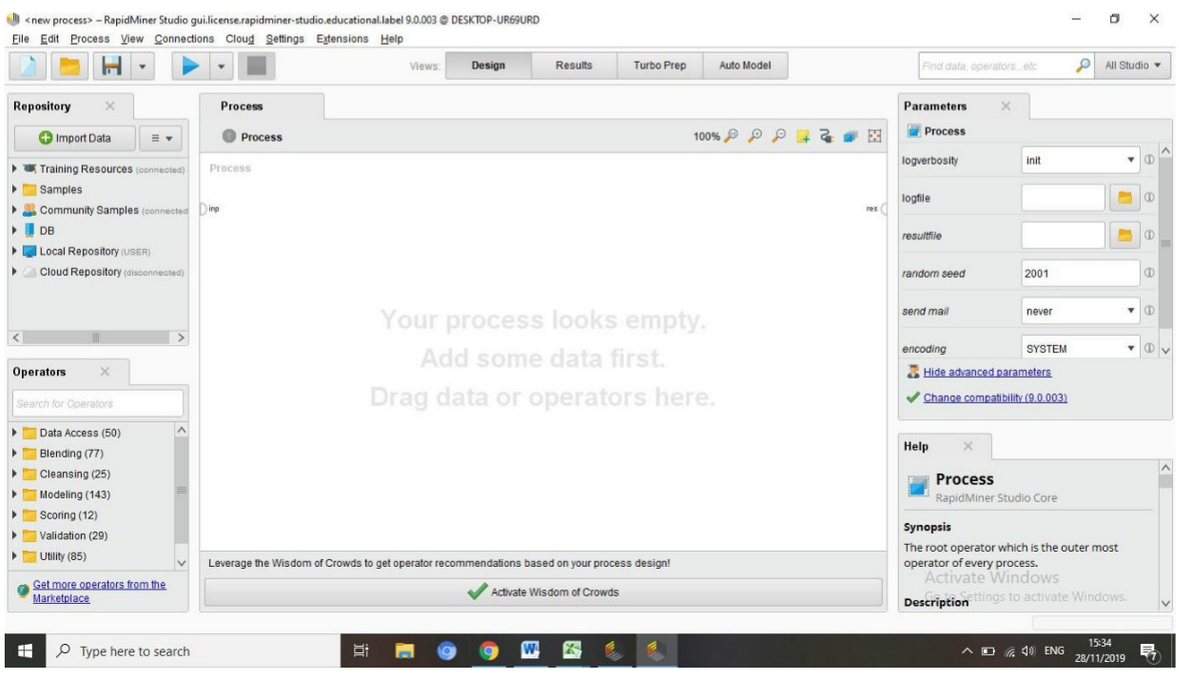
b) Text View (mencari model regresi)

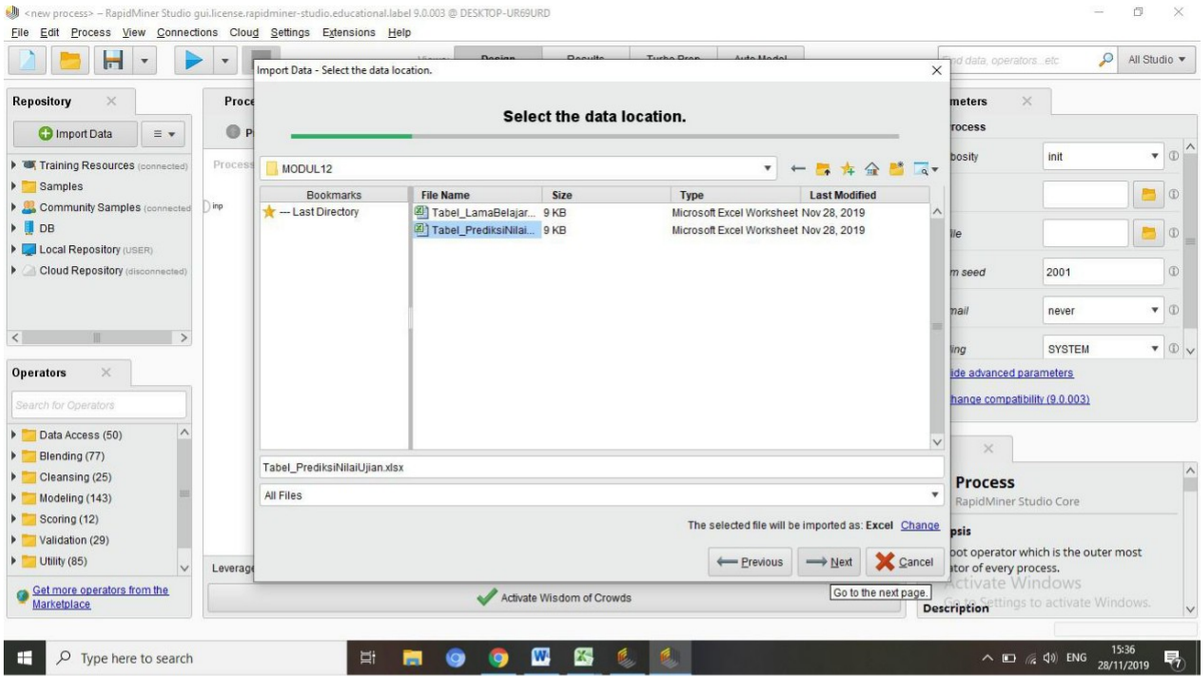


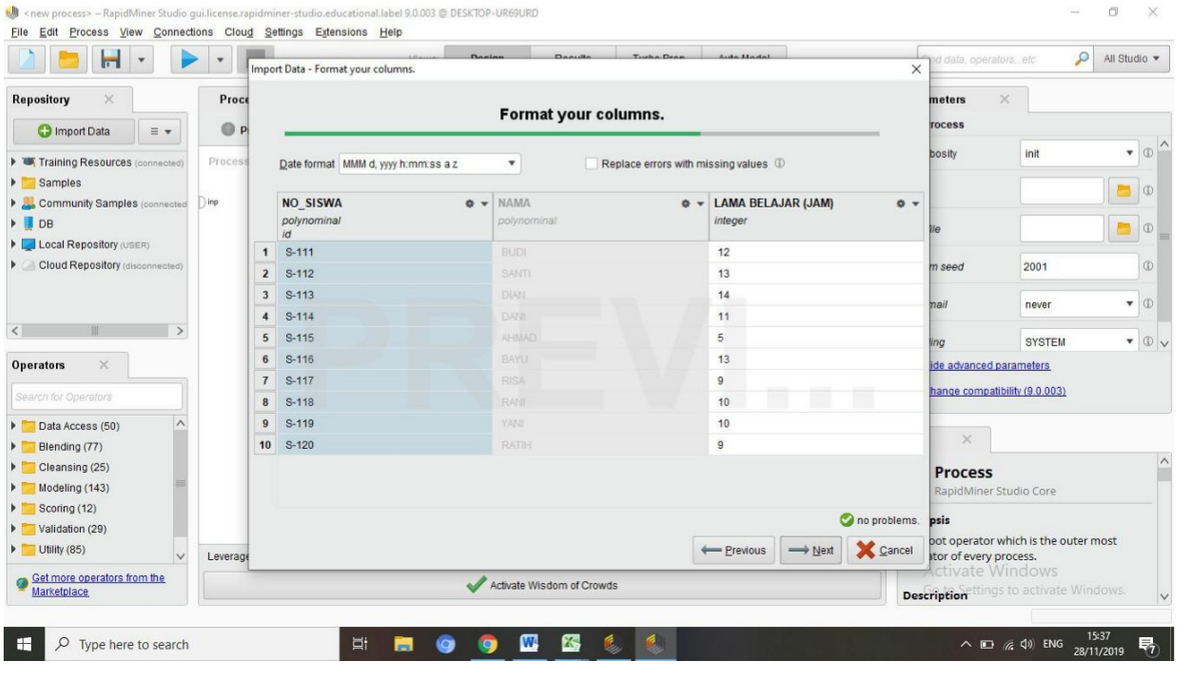
2. Mencari Nilai t dan Model Regresi Linier Menggunakan RapidMiner

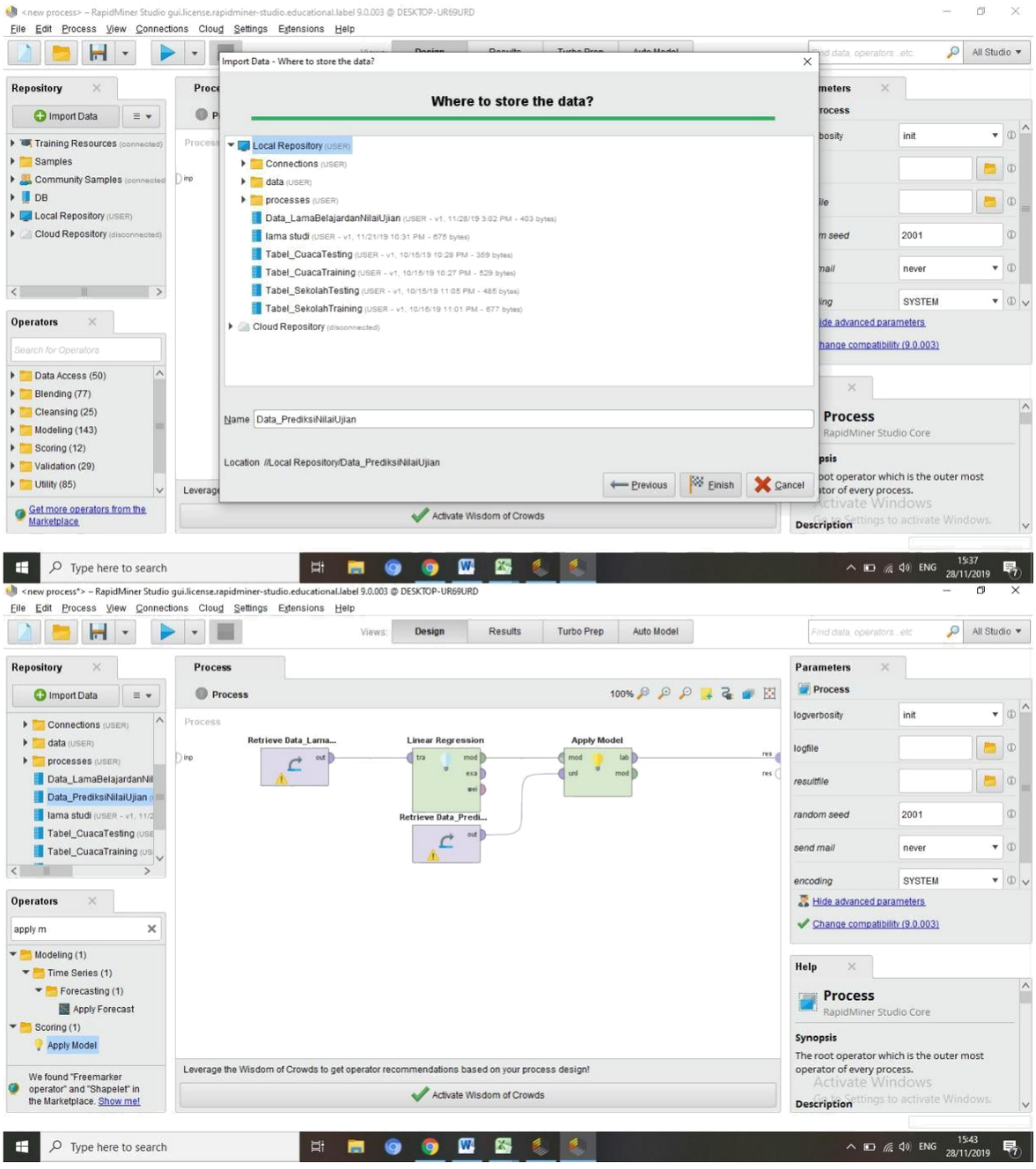


NO_SISWA	NAMA	LAMA BELAJAR (JAM)
S-111	BUDI	12
S-112	SANTI	13
S-113	DIAN	14
S-114	DANI	11
S-115	AHMAD	5
S-116	BAYU	13
S-117	RISA	9
S-118	RANI	10
S-119	YANI	10
S-120	RATIH	9




<new process> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Import Data - Select the data location.
Select the data location.
MODUL12
Bookmarks
File Name
Size
Type
Last Modified
--- Last Directory
Tabel_LamaBelajar... 9 KB Microsoft Excel Worksheet Nov 28, 2019
Tabel_PrediksiNilai... 9 KB Microsoft Excel Worksheet Nov 28, 2019
Tabel_PrediksiNilaiUjian.xlsx
All Files
The selected file will be imported as: Excel Change
Previous
Next
Cancel
Go to the next page.
Repository
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB
Local Repository (USER)
Cloud Repository (disconnected)
Operators
Search for Operators
Data Access (50)
Blending (77)
Cleansing (25)
Modeling (143)
Scoring (12)
Validation (29)
Utility (85)
Get more operators from the Marketplace
Activate Wisdom of Crowds
Process
RapidMiner Studio Core
Description
Type here to search
ENG
15:36
28/11/2019

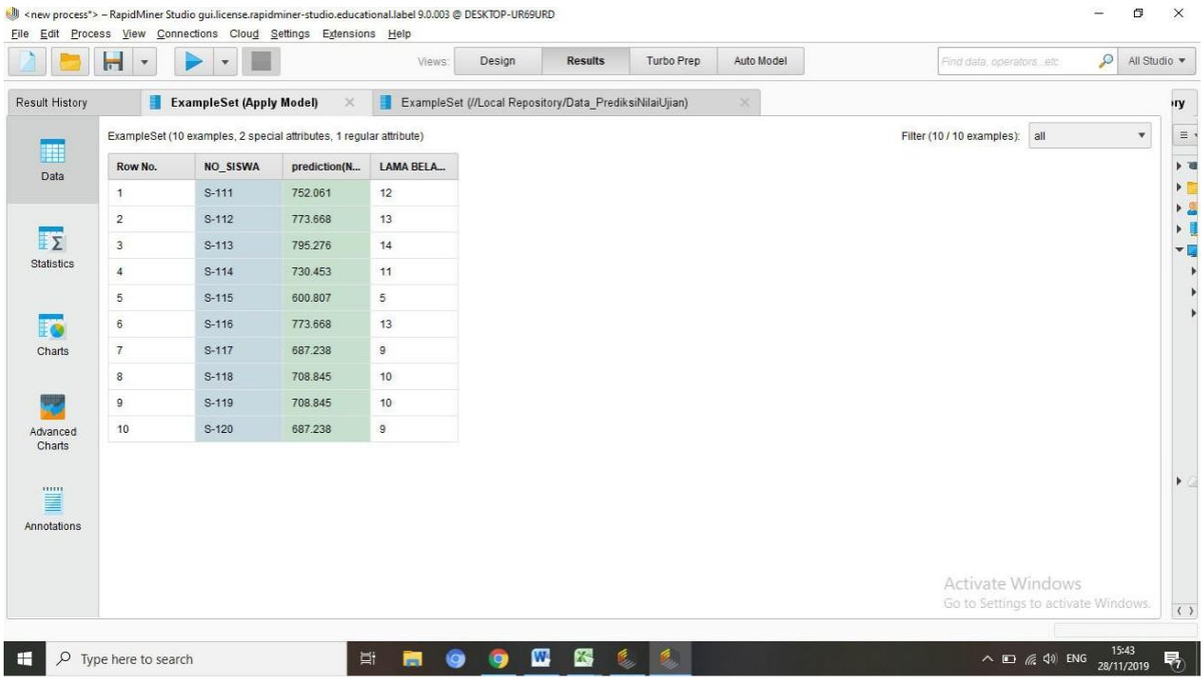

<new process> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Import Data - Format your columns.
Format your columns.
Date format MMM d, yyyy h:mm:ss a z
Replace errors with missing values
NO_SISWA
polynominal
id
NAMA
polynominal
LAMA BELAJAR (JAM)
integer
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
Repository
Import Data
Operators
Search for Operators
Activate Wisdom of Crowds
Process
RapidMiner Studio Core
Description
Type here to search
ENG
15:37
28/11/2019


<new process> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Import Data - Where to store the data?
Where to store the data?
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
Data_LamaBelajardanNilaiUjian (USER - v1, 11/28/19 3:02 PM - 403 bytes)
lama studi (USER - v1, 11/21/19 10:31 PM - 675 bytes)
Tabel_CuacaTesting (USER - v1, 10/15/19 10:28 PM - 359 bytes)
Tabel_CuacaTraining (USER - v1, 10/15/19 10:27 PM - 529 bytes)
Tabel_SekolahTesting (USER - v1, 10/15/19 11:05 PM - 485 bytes)
Tabel_SekolahTraining (USER - v1, 10/15/19 11:01 PM - 677 bytes)
Cloud Repository (disconnected)
Name Data_PrediksiNilaiUjian
Location //Local Repository/Data_PrediksiNilaiUjian
Previous
Finish
Cancel
Repository
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB
Local Repository (USER)
Cloud Repository (disconnected)
Operators
Search for Operators
Data Access (50)
Blending (77)
Cleansing (25)
Modeling (143)
Scoring (12)
Validation (29)
Utility (85)
Get more operators from the Marketplace
Activate Wisdom of Crowds
Process
RapidMiner Studio Core
Description
Type here to search
ENG
15:37
28/11/2019

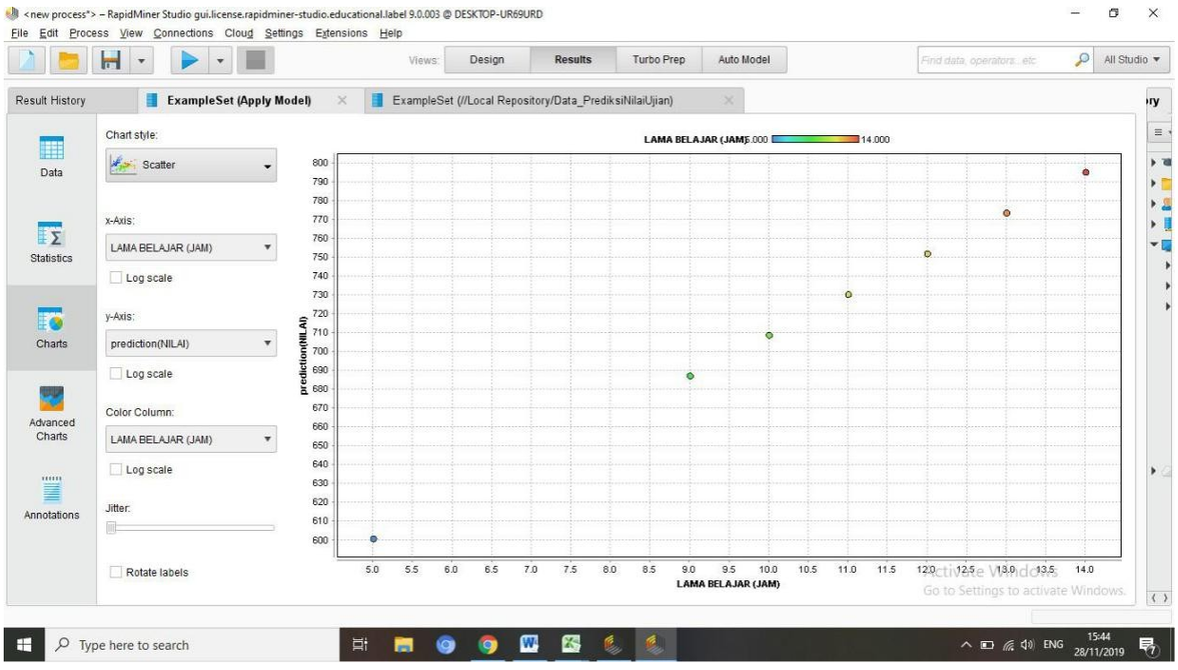
<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Repository
Import Data
Connections (USER)
data (USER)
processes (USER)
Data_LamaBelajardanNil
Data_PrediksiNilaiUjian
lama studi (USER - v1, 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (US
Operators
apply m
Modeling (1)
Time Series (1)
Forecasting (1)
Apply Forecast
Scoring (1)
Apply Model
We found "Freemarker operator" and "Shapelet" in the Marketplace. Show me!
Process
100%
Retrieve Data_Lama...
Linear Regression
Apply Model
Retrieve Data_Predi...
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity init
logfile
resultfile
random seed 2001
send mail never
encoding SYSTEM
Hide advanced parameters
Change compatibility (9.0.003)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.
Description
Type here to search
ENG
15:43
28/11/2019

Hasil proses prediksi terhadap data testing menggunakan regresi linier :

a) Data View (mencari besarnya nilai t-hitung)

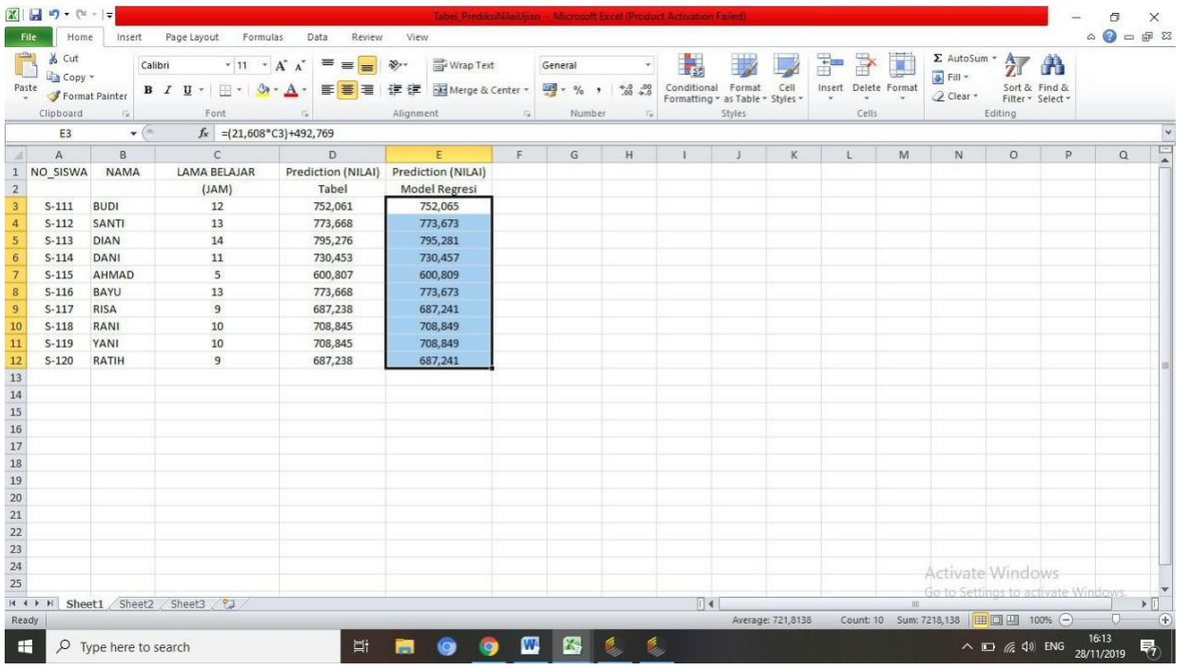


b) Charts View (Scatter Plot)



Pembuktian Model Regresi Y =

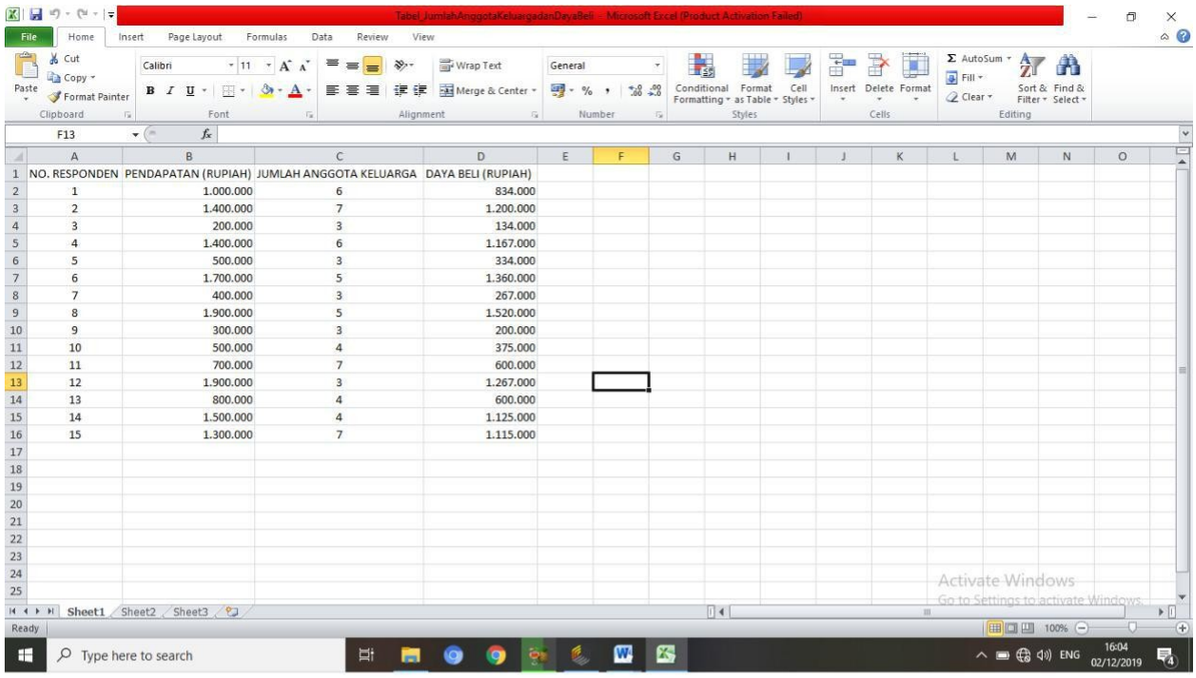
$21{,}608X_1 + 492{,}769$



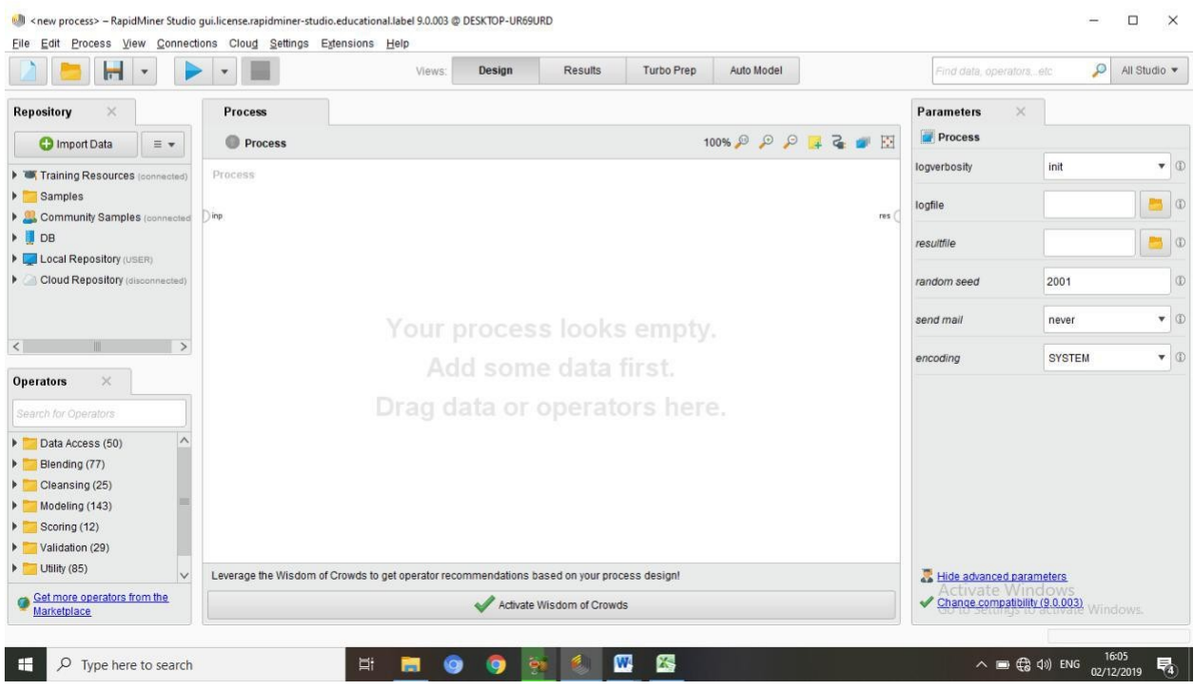
NO_SISWA	NAMA	LAMA BELAJAR (JAM)	Prediction (NILAI) Tabel	Prediction (NILAI) Model Regresi
S-111	BUDI	12	752,061	752,065
S-112	SANTI	13	773,668	773,673
S-113	DIAN	14	795,276	795,281
S-114	DANI	11	730,453	730,457
S-115	AHMAD	5	600,807	600,809
S-116	BAYU	13	773,668	773,673
S-117	RISA	9	687,238	687,241
S-118	RANI	10	708,845	708,849
S-119	YANI	10	708,845	708,849
S-120	RATIH	9	687,238	687,241

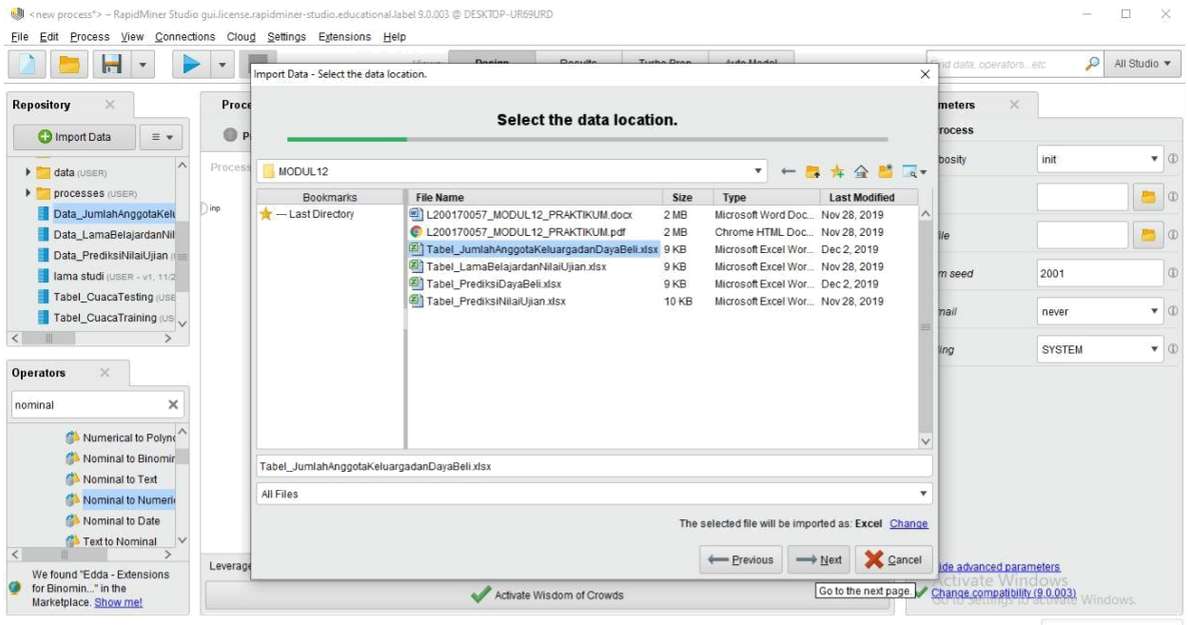
TUGAS

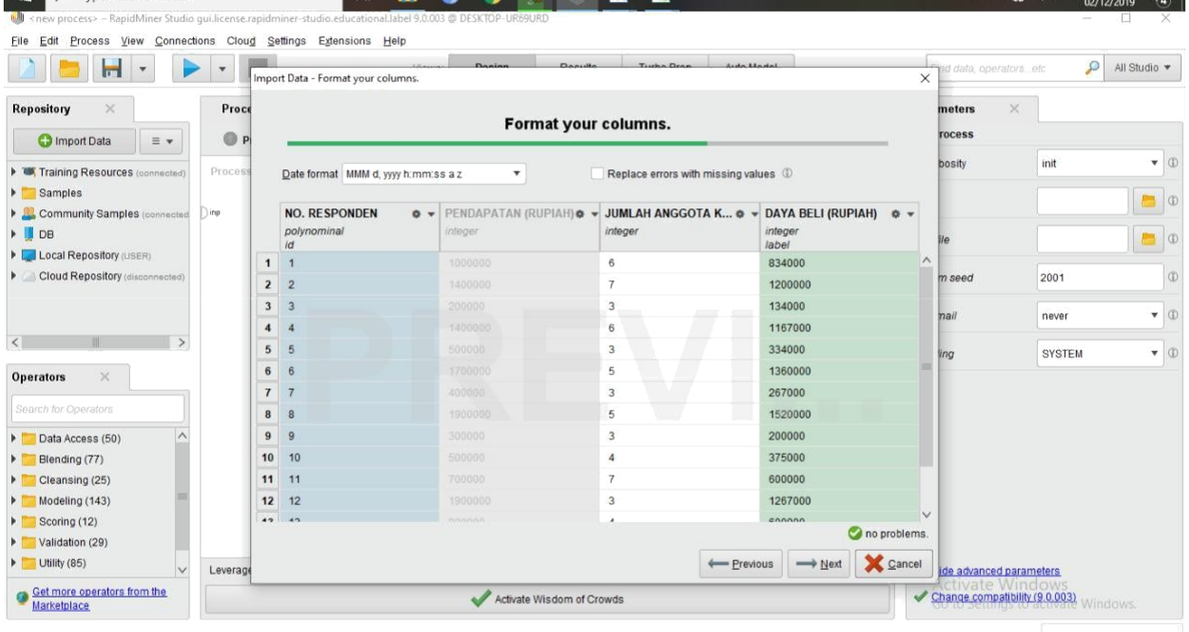
Mencari Nilai t-hitung dan Model Regresi Linier

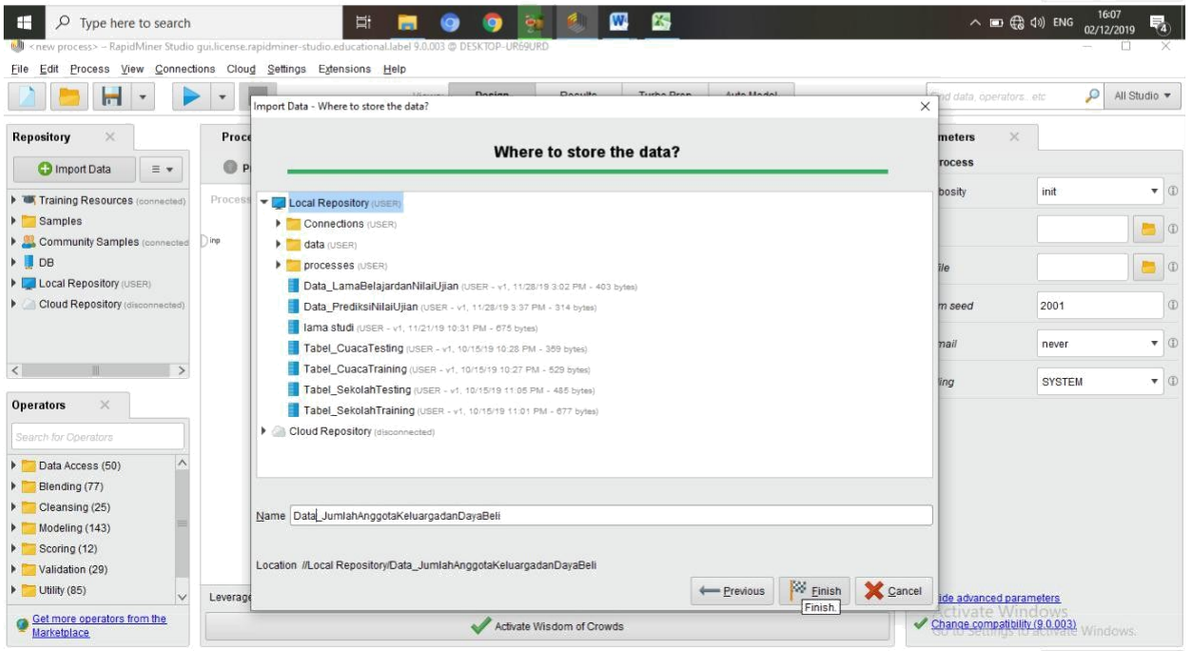


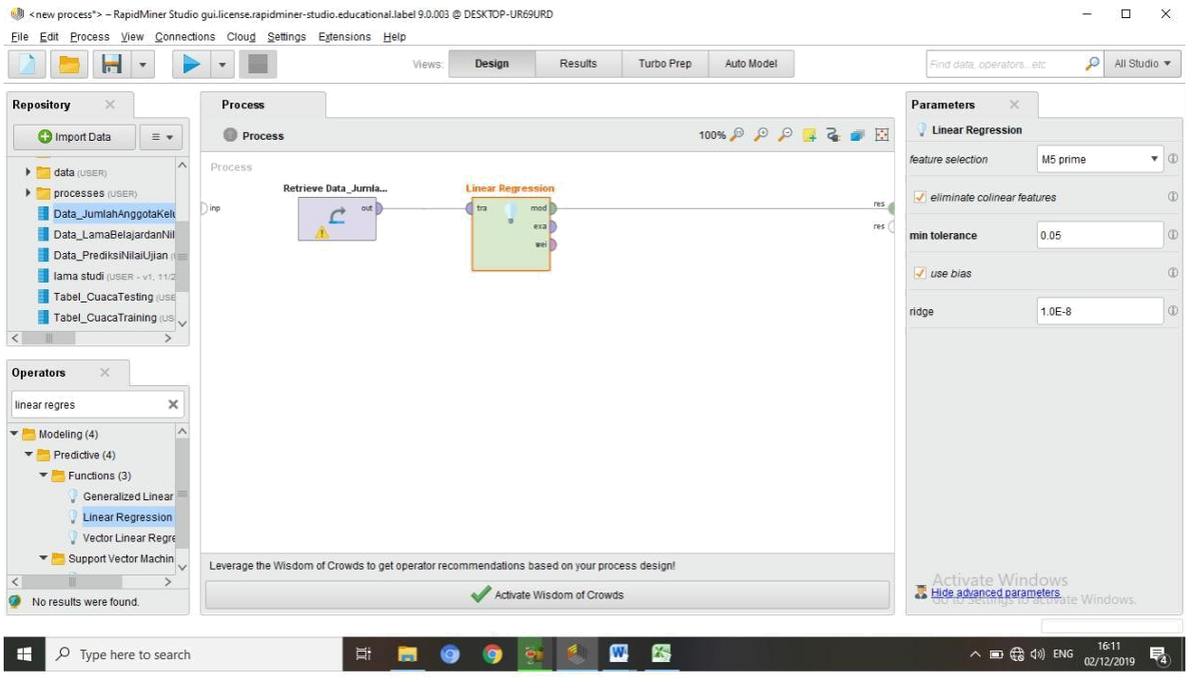
NO. RESPONDEN	PENDAPATAN (RUPIAH)	JUMLAH ANGGOTA KELUARGA	DAYA BELI (RUPIAH)
1	1.000.000	6	834.000
2	1.400.000	7	1.200.000
3	200.000	3	134.000
4	1.400.000	6	1.167.000
5	500.000	3	334.000
6	1.700.000	5	1.360.000
7	400.000	3	267.000
8	1.900.000	5	1.520.000
9	300.000	3	200.000
10	500.000	4	375.000
11	700.000	7	600.000
12	1.900.000	3	1.267.000
13	800.000	4	600.000
14	1.500.000	4	1.125.000
15	1.300.000	7	1.115.000

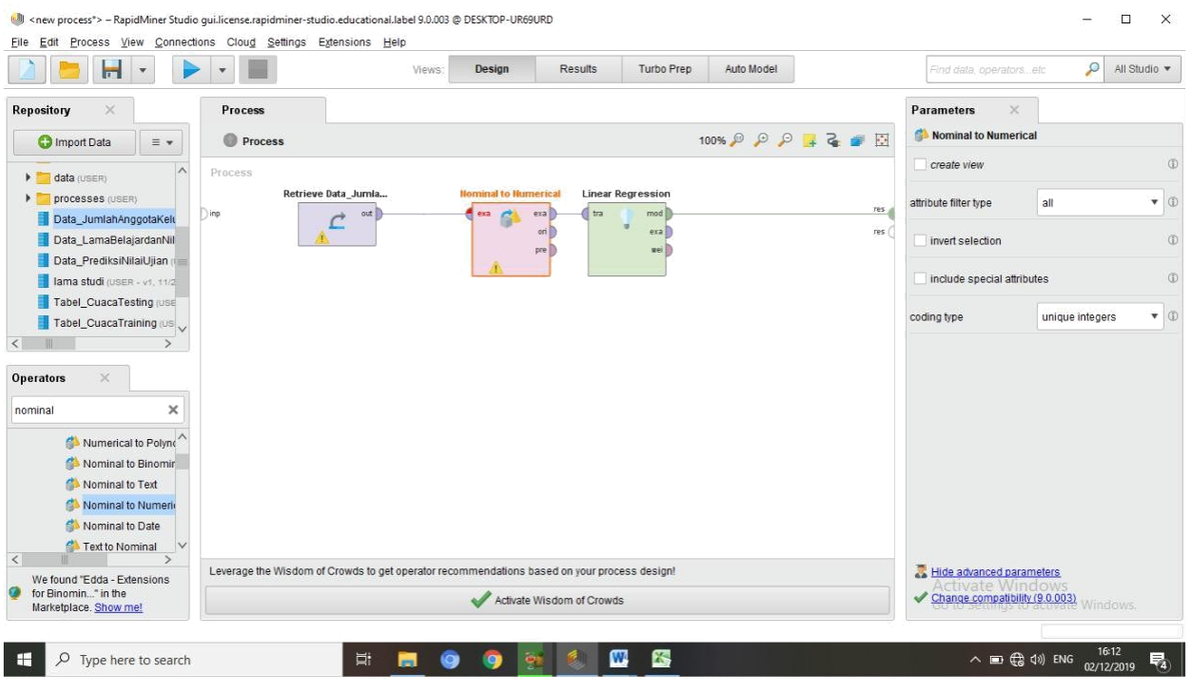



Import Data - Select the data location.
Select the data location.
MODUL12
Bookmarks
--- Last Directory
File Name
Size
Type
Last Modified
L200170057_MODUL12_PRAKTIKUM.docx 2 MB Microsoft Word Doc... Nov 28, 2019
L200170057_MODUL12_PRAKTIKUM.pdf 2 MB Chrome HTML Doc... Nov 28, 2019
Tabel_JumlahAnggotaKeluargadanDayaBeli.xlsx 9 KB Microsoft Excel Wor... Dec 2, 2019
Tabel_LamaBelajardanNilaiUjian.xlsx 9 KB Microsoft Excel Wor... Nov 28, 2019
Tabel_PrediksiDayaBeli.xlsx 9 KB Microsoft Excel Wor... Dec 2, 2019
Tabel_PrediksiNilaiUjian.xlsx 10 KB Microsoft Excel Wor... Nov 28, 2019
Tabel_JumlahAnggotaKeluargadanDayaBeli.xlsx
All Files
The selected file will be imported as: Excel Change
Previous
Next
Cancel
Go to the next page.
Repository
Import Data
Operators
nominal
We found "Edda - Extensions for Binomin..." in the Marketplace. Show me!
Activate Wisdom of Crowds
Change compatibility (9.0.003)


Import Data - Format your columns.
Format your columns.
Date format MMM d, yyyy h:mm:ss a z
Replace errors with missing values
NO. RESPONDEN polynominal id
PENDAPATAN (RUPIAH) integer
JUMLAH ANGGOTA K... integer
DAYA BELI (RUPIAH) integer label
1 1 1000000 6 834000
2 2 1400000 7 1200000
3 3 200000 3 134000
4 4 1400000 6 1167000
5 5 500000 3 334000
6 6 1700000 5 1360000
7 7 400000 3 267000
8 8 1900000 5 1520000
9 9 300000 3 200000
10 10 500000 4 375000
11 11 700000 7 600000
12 12 1900000 3 1267000
no problems.
Previous
Next
Cancel
Repository
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB
Local Repository (USER)
Cloud Repository (disconnected)
Operators
Search for Operators
Data Access (50)
Blending (77)
Cleansing (25)
Modeling (143)
Scoring (12)
Validation (29)
Utility (85)
Get more operators from the Marketplace
Activate Wisdom of Crowds
Change compatibility (9.0.003)

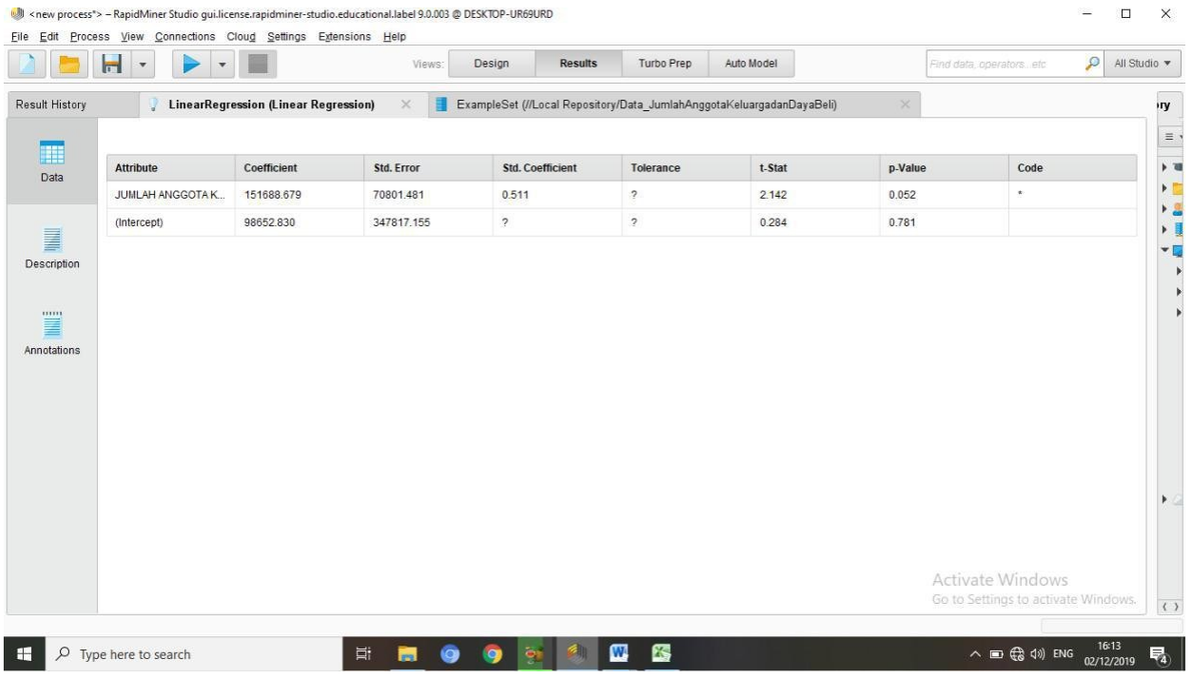

Import Data - Where to store the data?
Where to store the data?
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
Data_LamaBelajardanNilaiUjian (USER - v1, 11/28/19 3:02 PM - 403 bytes)
Data_PrediksiNilaiUjian (USER - v1, 11/28/19 3:37 PM - 314 bytes)
lama studi (USER - v1, 11/21/19 10:31 PM - 675 bytes)
Tabel_CuacaTesting (USER - v1, 10/15/19 10:28 PM - 359 bytes)
Tabel_CuacaTraining (USER - v1, 10/15/19 10:27 PM - 529 bytes)
Tabel_SekolahTesting (USER - v1, 10/15/19 11:05 PM - 485 bytes)
Tabel_SekolahTraining (USER - v1, 10/15/19 11:01 PM - 677 bytes)
Cloud Repository (disconnected)
Name Data_JumlahAnggotaKeluargadanDayaBeli
Location //Local Repository/Data_JumlahAnggotaKeluargadanDayaBeli
Previous
Finish
Cancel
Finish.
Repository
Import Data
Operators
Search for Operators
Data Access (50)
Blending (77)
Cleansing (25)
Modeling (143)
Scoring (12)
Validation (29)
Utility (85)
Get more operators from the Marketplace
Activate Wisdom of Crowds
Change compatibility (9.0.003)


<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
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
data (USER)
processes (USER)
Data_JumlahAnggotaKelu
Data_LamaBelajardanNil
Data_PrediksiNilaiUjian
lama studi (USER - v1, 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (US
Operators
linear regres
Modeling (4)
Predictive (4)
Functions (3)
Generalized Linear
Linear Regression
Vector Linear Regre
Support Vector Machin
No results were found.
Process
Process
100%
Retrieve Data_Jumla...
Linear Regression
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Linear Regression
feature selection
M5 prime
eliminate colinear features
min tolerance
0.05
use bias
ridge
1.0E-8
Hide advanced parameters
Activate Windows
Type here to search
ENG
16:11
02/12/2019

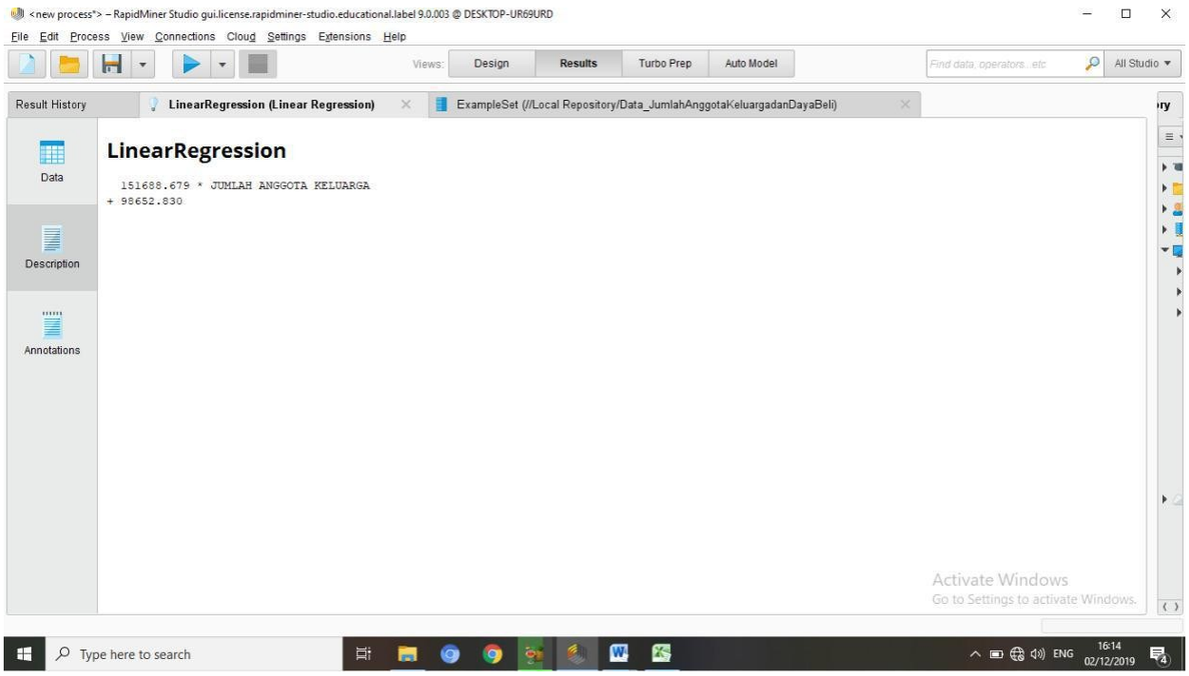

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Repository
Import Data
data (USER)
processes (USER)
Data_JumlahAnggotaKelu
Data_LamaBelajardanNil
Data_PrediksiNilaiUjian
lama studi (USER - v1, 11/2
Tabel_CuacaTesting (USE
Tabel_CuacaTraining (US
Operators
nominal
Numerical to Polyno
Nominal to Binomin
Nominal to Text
Nominal to Numeri
Nominal to Date
Text to Nominal
We found "Edda - Extensions for Binomin..." in the Marketplace. Show me!
Process
Process
100%
Retrieve Data_Jumla...
Nominal to Numerical
Linear Regression
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Nominal to Numerical
create view
attribute filter type
all
invert selection
include special attributes
coding type
unique integers
Hide advanced parameters
Change compatibility (9.0.003)
Activate Windows
Type here to search
ENG
16:12
02/12/2019

Hasil proses regresi linier :

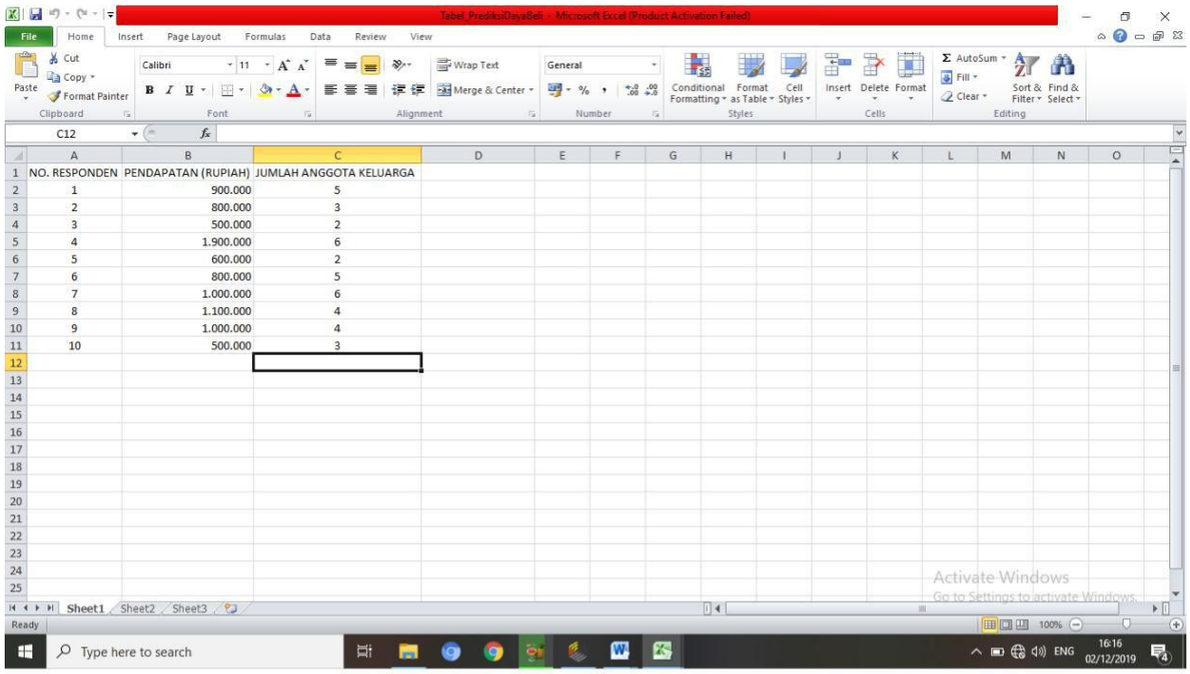
a) Table View (mencari besarnya nilai t-hitung)



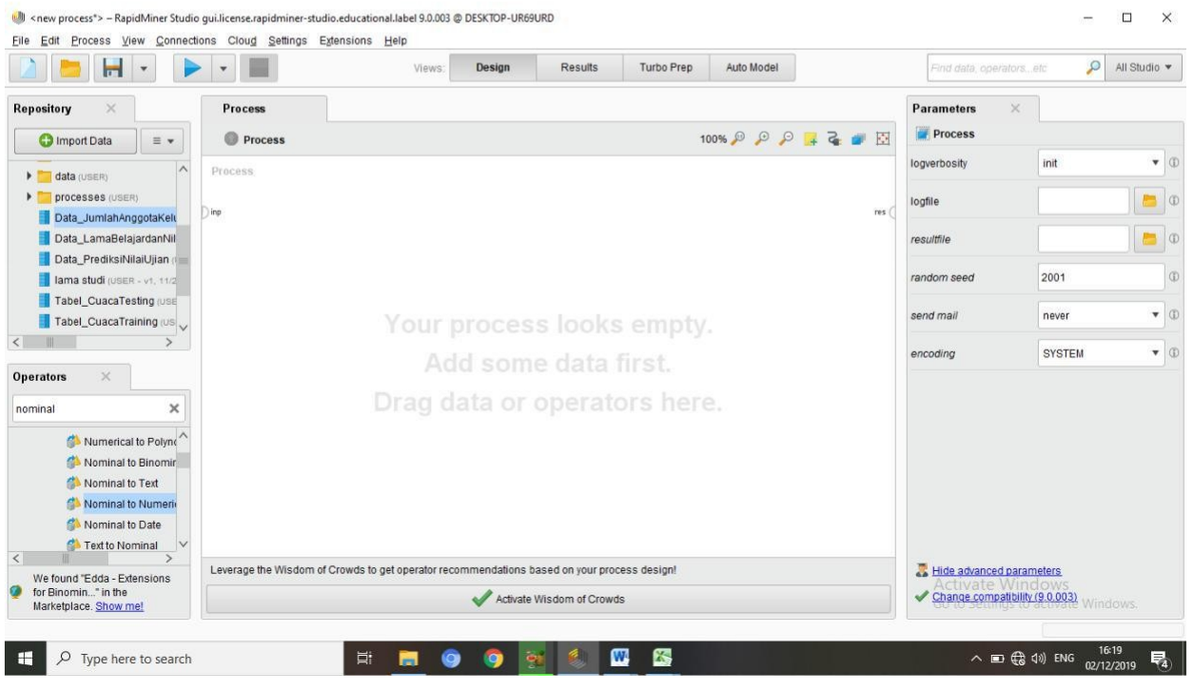
Text View (mencari model regresi)

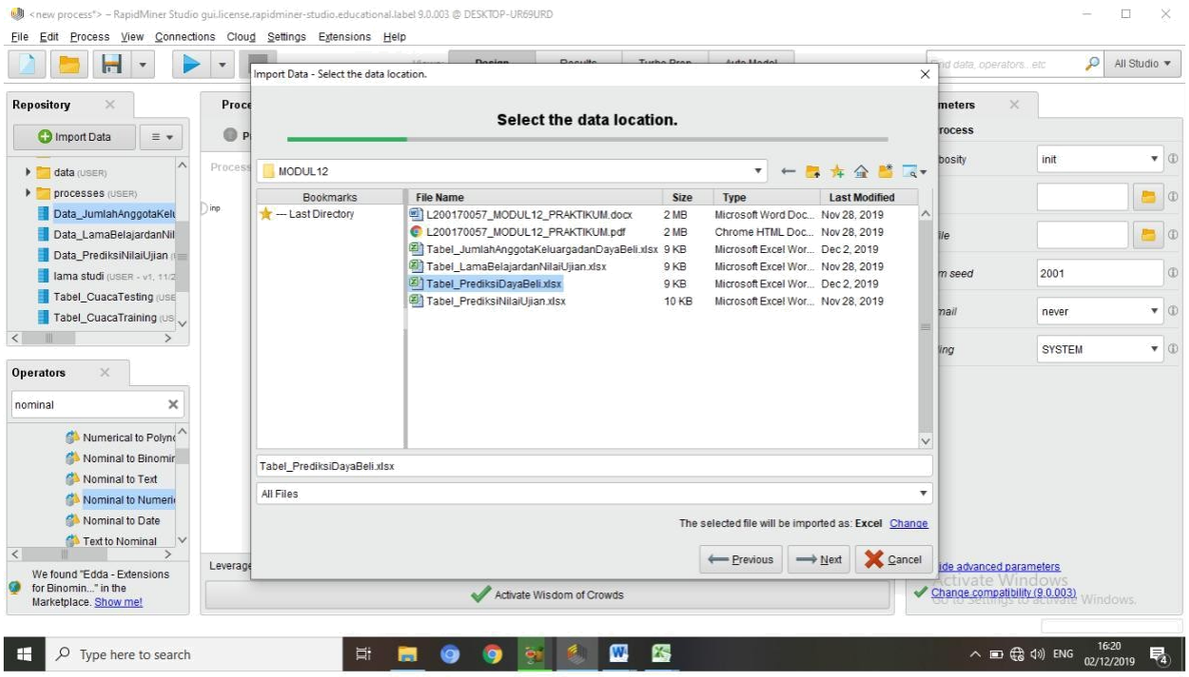


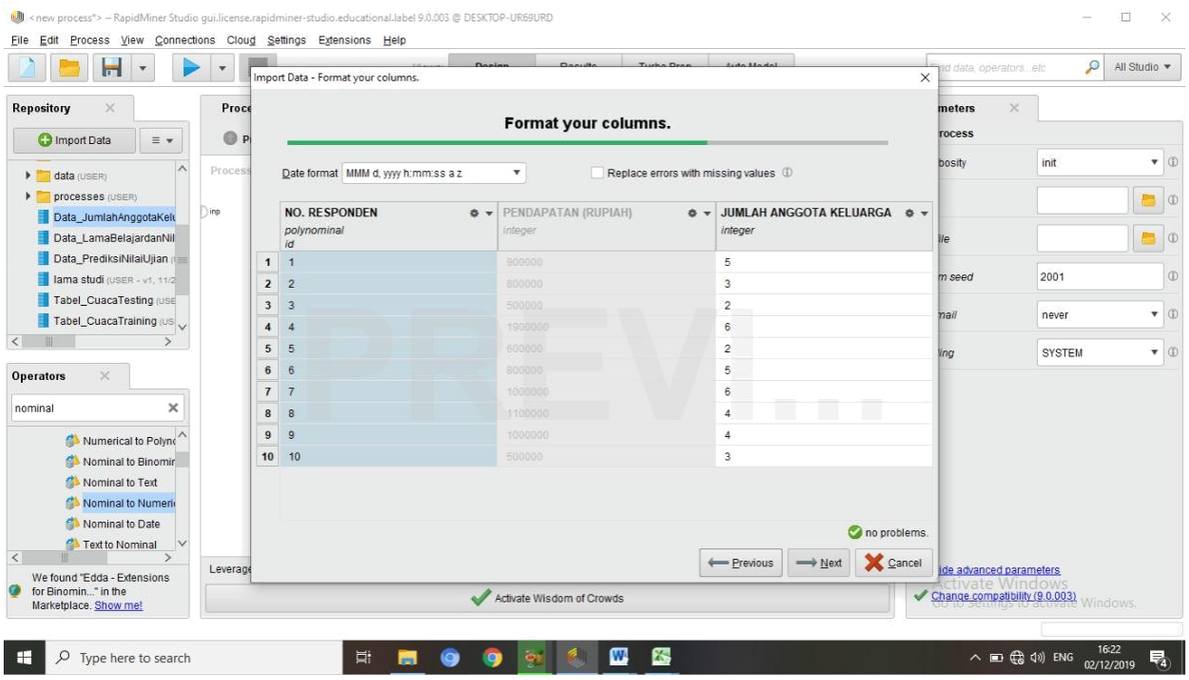
Mencari Nilai t dan Model Regresi Linier Menggunakan RapidMiner

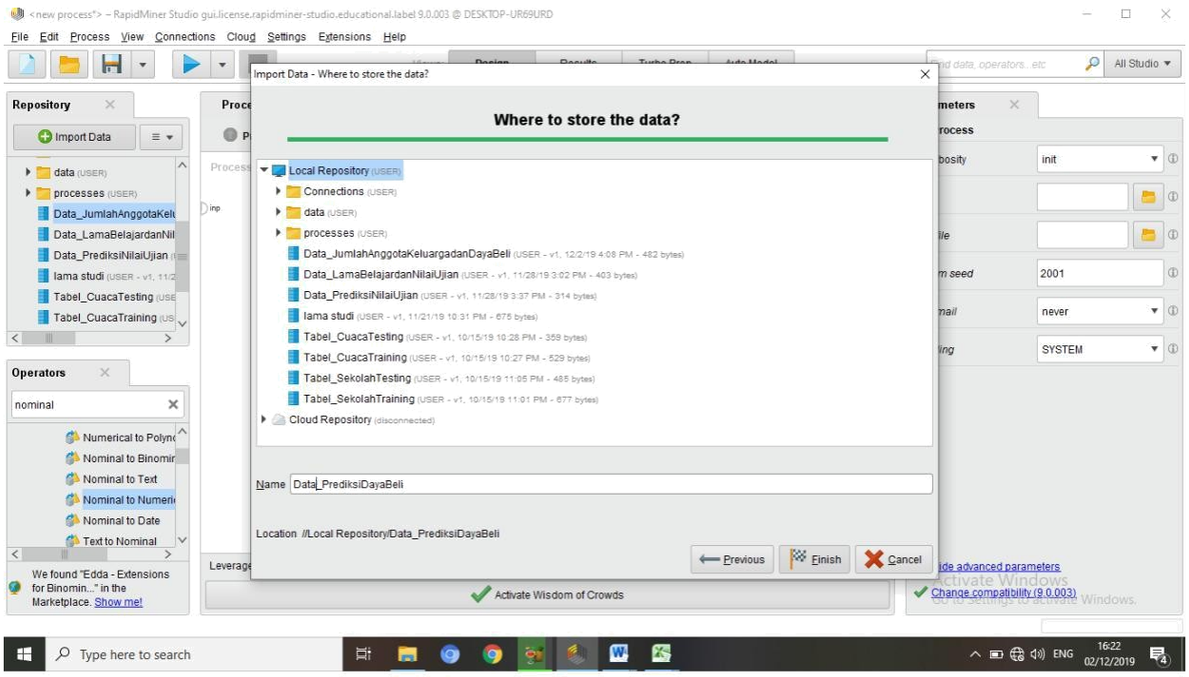


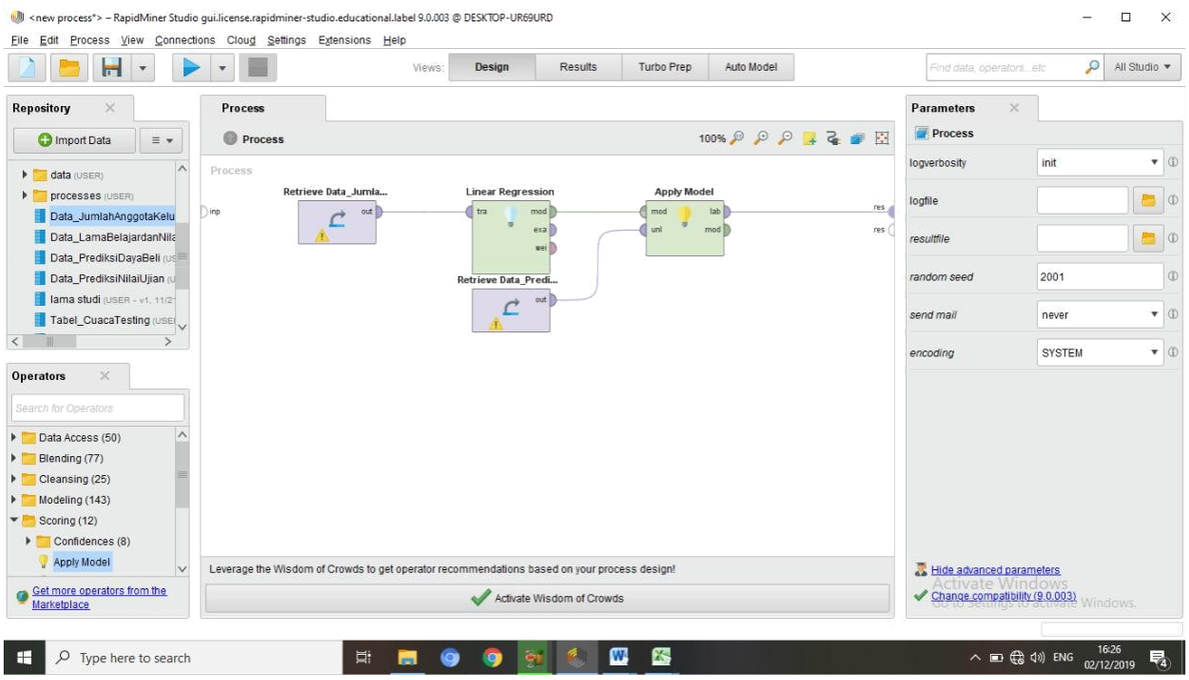
NO. RESPONDEN	PENDAPATAN (RUPIAH)	JUMLAH ANGGOTA KELUARGA
1	900.000	5
2	800.000	3
3	500.000	2
4	1.900.000	6
5	600.000	2
6	800.000	5
7	1.000.000	6
8	1.100.000	4
9	1.000.000	4
10	500.000	3




<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Import Data - Select the data location.
Select the data location.
MODUL12
Bookmarks
--- Last Directory
File Name
Size
Type
Last Modified
L200170057_MODUL12_PRAKTIKUM.docx 2 MB Microsoft Word Doc... Nov 28, 2019
L200170057_MODUL12_PRAKTIKUM.pdf 2 MB Chrome HTML Doc... Nov 28, 2019
Tabel_JumlahAnggotaKeluargadanDayaBeli.xlsx 9 KB Microsoft Excel Wor... Dec 2, 2019
Tabel_LamaBelajardanNilaiUjian.xlsx 9 KB Microsoft Excel Wor... Nov 28, 2019
Tabel_PrediksiDayaBeli.xlsx 9 KB Microsoft Excel Wor... Dec 2, 2019
Tabel_PrediksiNilaiUjian.xlsx 10 KB Microsoft Excel Wor... Nov 28, 2019
Tabel_PrediksiDayaBeli.xlsx
All Files
The selected file will be imported as: Excel Change
Previous
Next
Cancel
Repository
Import Data
Operators
nominal
Activate Wisdom of Crowds
Type here to search
ENG
16:20
02/12/2019

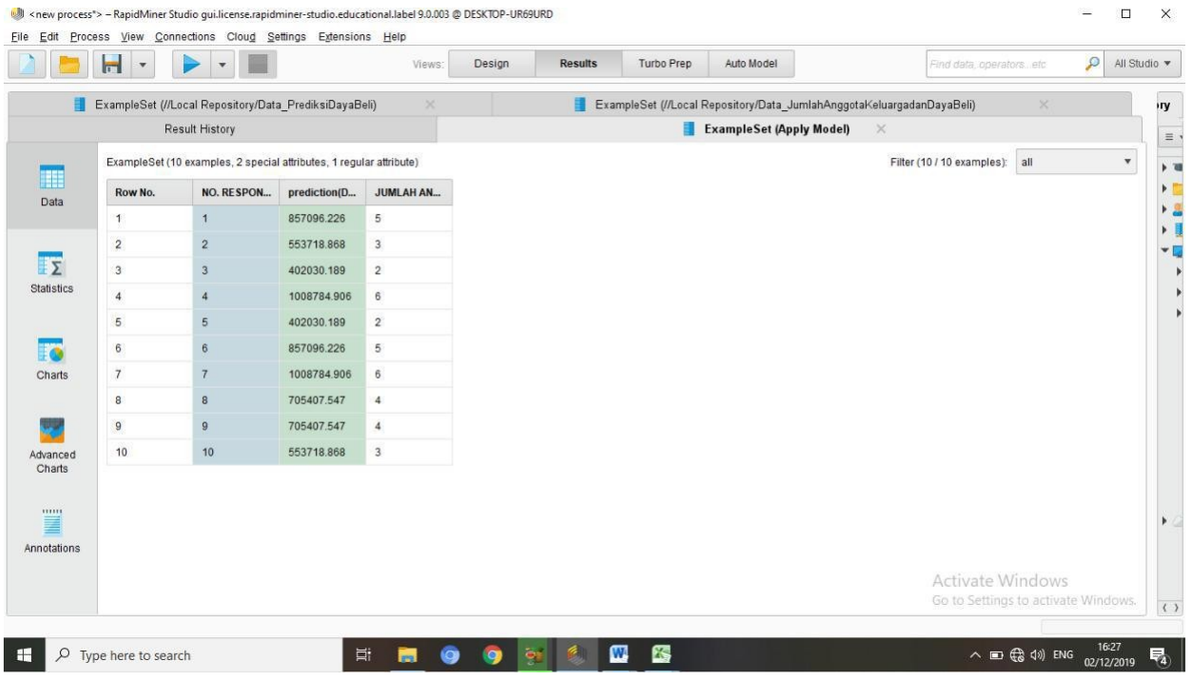

<new process*> – RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD
File Edit Process View Connections Cloud Settings Extensions Help
Import Data - Format your columns.
Format your columns.
Date format MMM d, yyyy h:mm:ss a z
Replace errors with missing values
NO. RESPONDEN
polynominal
id
PENDAPATAN (RUPIAH)
integer
JUMLAH ANGGOTA KELUARGA
integer
1 1 900000 5
2 2 800000 3
3 3 500000 2
4 4 1900000 6
5 5 600000 2
6 6 800000 5
7 7 1000000 6
8 8 1100000 4
9 9 1000000 4
10 10 500000 3
no problems.
Previous
Next
Cancel
Repository
Import Data
Operators
nominal
Activate Wisdom of Crowds
Type here to search
ENG
16:22
02/12/2019


Import Data - Where to store the data?
Where to store the data?
Local Repository (USER)
Connections (USER)
data (USER)
processes (USER)
Data_JumlahAnggotaKeluargadanDayaBeli (USER - v1, 12/2/19 4:08 PM - 482 bytes)
Data_LamaBelajardanNilaiUjian (USER - v1, 11/28/19 3:02 PM - 403 bytes)
Data_PrediksiNilaiUjian (USER - v1, 11/28/19 3:37 PM - 314 bytes)
lama studi (USER - v1, 11/21/19 10:31 PM - 675 bytes)
Tabel_CuacaTesting (USER - v1, 10/15/19 10:28 PM - 359 bytes)
Tabel_CuacaTraining (USER - v1, 10/15/19 10:27 PM - 529 bytes)
Tabel_SekolahTesting (USER - v1, 10/15/19 11:05 PM - 485 bytes)
Tabel_SekolahTraining (USER - v1, 10/15/19 11:01 PM - 677 bytes)
Cloud Repository (disconnected)
Name Data_PrediksiDayaBeli
Location //Local Repository/Data_PrediksiDayaBeli
Previous
Finish
Cancel
Repository
Import Data
Operators
nominal
Numerical to Polyno
Nominal to Binomin
Nominal to Text
Nominal to Numeric
Nominal to Date
Text to Nominal
We found "Edda - Extensions for Binomin..." in the Marketplace. Show me!
Activate Wisdom of Crowds
Parameters
Process
logverbosity
init
logfile
random seed
2001
send mail
never
encoding
SYSTEM
Hide advanced parameters
Change compatibility (9.0.003)
Activate Windows
Type here to search
ENG
16:22
02/12/2019


Views:
Design
Results
Turbo Prep
Auto Model
Process
Retrieve Data_Jumla...
Linear Regression
Apply Model
Retrieve Data_Prediksi...
Repository
Import Data
Operators
Search for Operators
Data Access (50)
Blending (77)
Cleansing (25)
Modeling (143)
Scoring (12)
Confidences (8)
Apply Model
Get more operators from the Marketplace
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity
init
logfile
resultfile
random seed
2001
send mail
never
encoding
SYSTEM
Hide advanced parameters
Change compatibility (9.0.003)
Activate Windows
Type here to search
ENG
16:26
02/12/2019

Hasil proses prediksi terhadap data testing menggunakan regresi linier :

Data View (mencari besarnya nilai t-hitung)

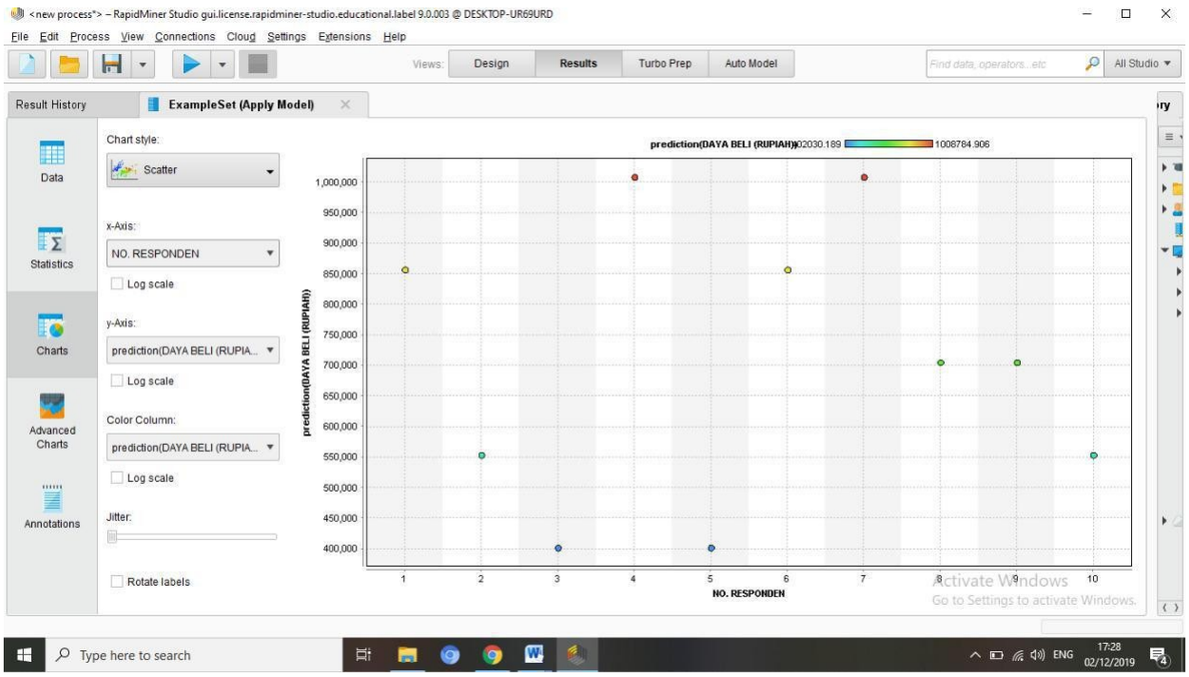


Charts View (Scatter Plot) x-

Axis = No. Responden,

y-Axis = Prediction (Daya Beli (Rupiah)),

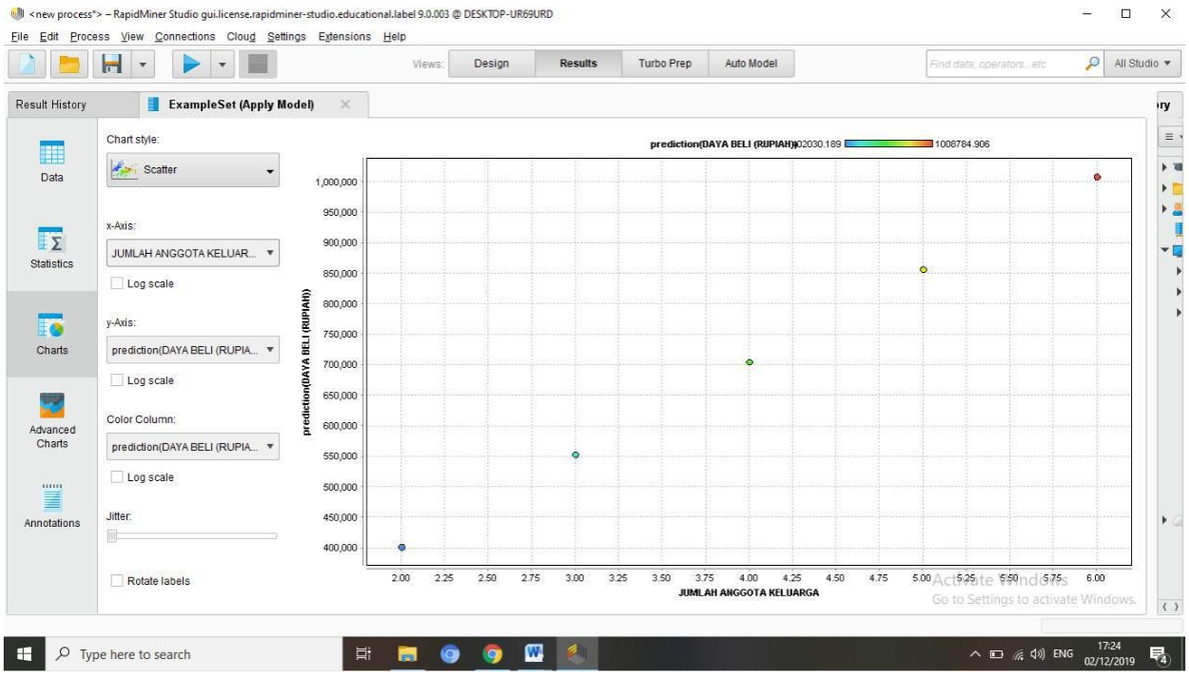
Color Column = Prediction (Daya Beli (Rupiah))



x-Axis = Jumlah Anggota Keluarga,

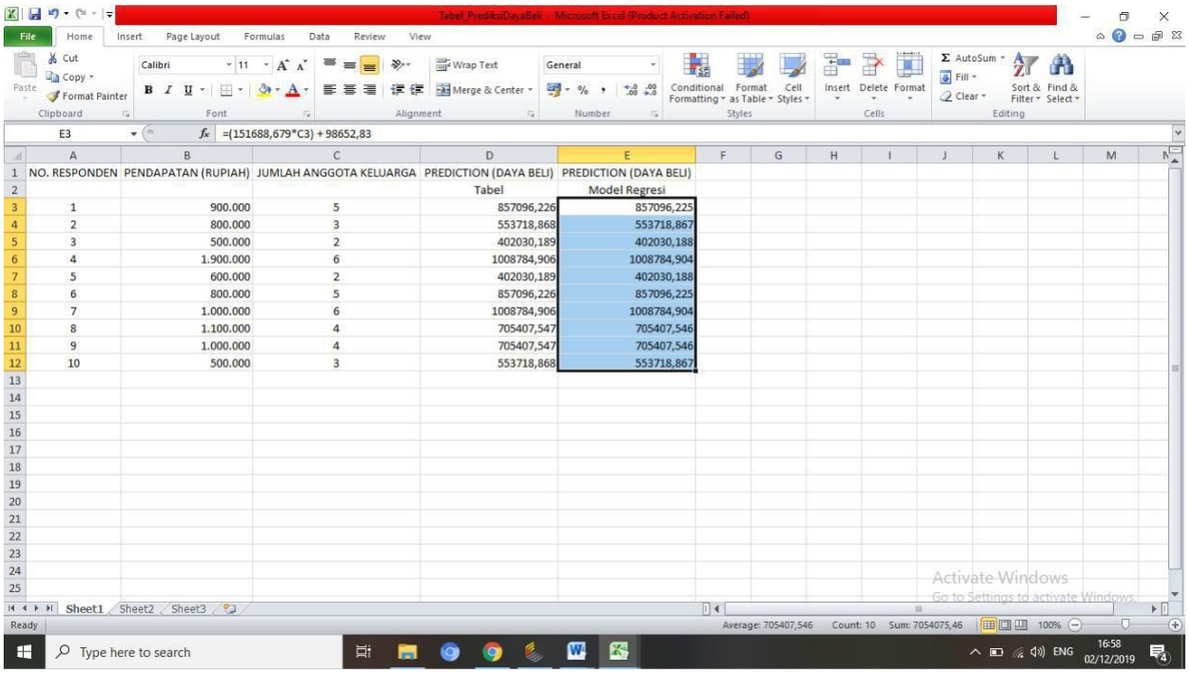
y-Axis = Prediction (Daya Beli (Rupiah)),

Color Column = Prediction (Daya Beli (Rupiah))



Pembuktian Model Regresi

Y = 151688,679 X1 + 98652,830



	A	B	C	D	E
1	NO. RESPONDEN	PENDAPATAN (RUPIAH)	JUMLAH ANGGOTA KELUARGA	PREDICTION (DAYA BELI)	PREDICTION (DAYA BELI)
2				Tabel	Model Regresi
3	1	900.000	5	857096,226	857096,225
4	2	800.000	3	553718,868	553718,867
5	3	500.000	2	402030,189	402030,188
6	4	1.900.000	6	1008784,906	1008784,904
7	5	600.000	2	402030,189	402030,188
8	6	800.000	5	857096,226	857096,225
9	7	1.000.000	6	1008784,906	1008784,904
10	8	1.100.000	4	705407,547	705407,546
11	9	1.000.000	4	705407,547	705407,546
12	10	500.000	3	553718,868	553718,867