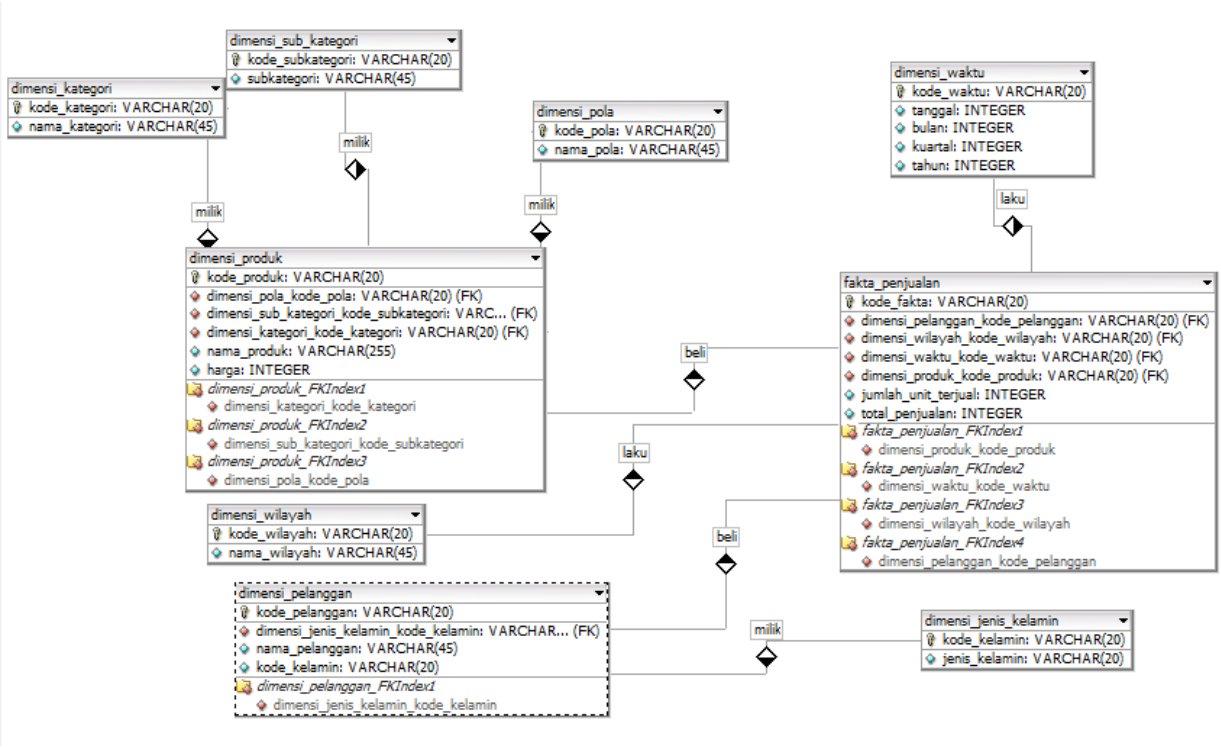
Nama : Afnan Fauzi Hidayat

NIM : L200170148

Kelas : E

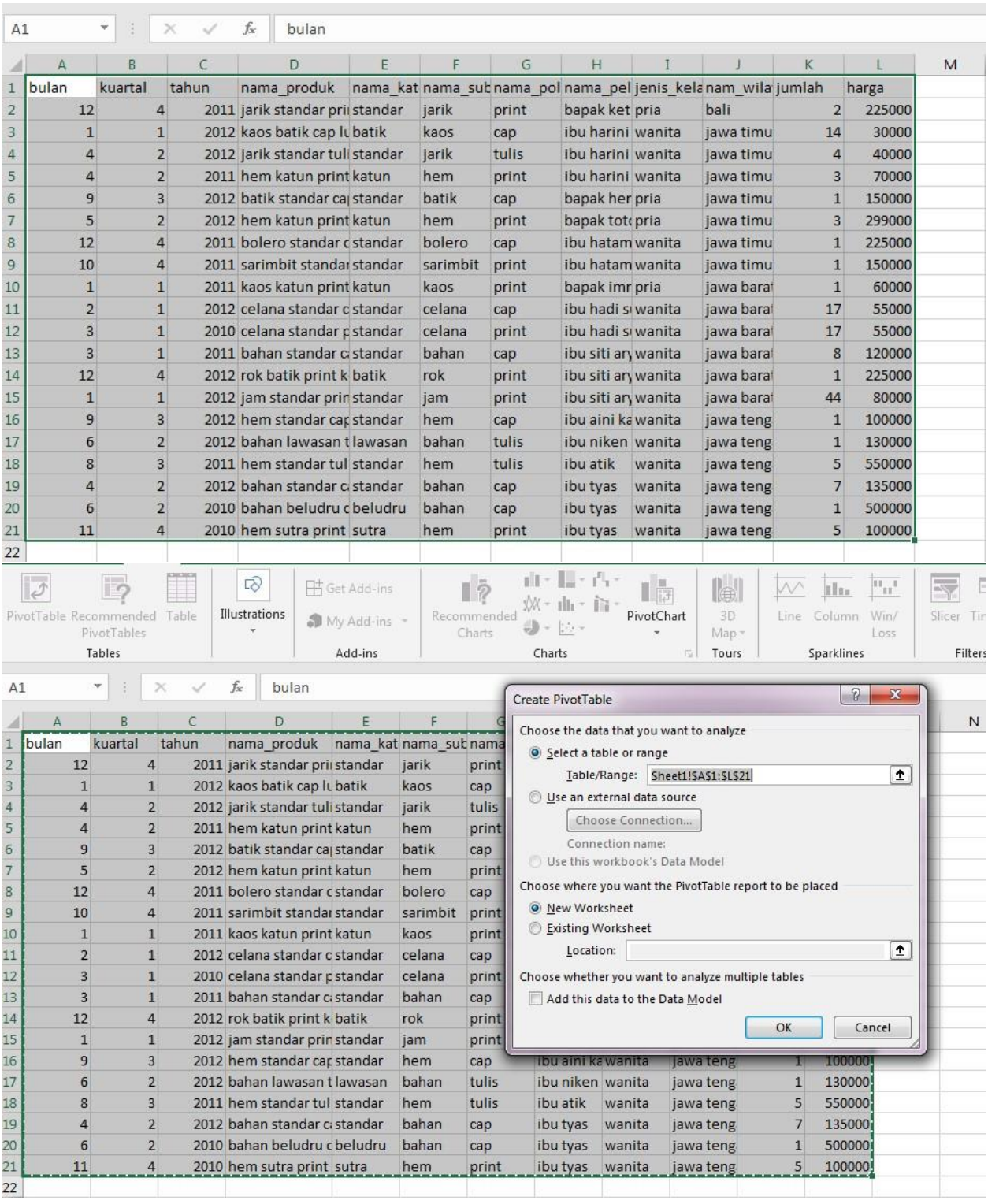
REKAPAN PRAKTIKUM DWDM

Modul 1



Modul 5

KEGIATAN



bulan	kuartal	tahun	nama_produk	nama_kat	nama_sub	nama_pol	nama_pel	jenis_kela	nam_wila	jumlah	harga
12	4	2011	jarik standar pri	standar	jarik	print	bapak ket	pria	bali	2	225000
1	1	2012	kaos batik cap lu	batik	kaos	cap	ibu harini	wanita	jawa timu	14	30000
4	2	2012	jarik standar tuli	standar	jarik	tulis	ibu harini	wanita	jawa timu	4	40000
4	2	2011	hem katun print	katun	hem	print	ibu harini	wanita	jawa timu	3	70000
9	3	2012	batik standar ca	standar	batik	cap	bapak her	pria	jawa timu	1	150000
5	2	2012	hem katun print	katun	hem	print	bapak tot	pria	jawa timu	3	299000
12	4	2011	bolero standar c	standar	bolero	cap	ibu hatam	wanita	jawa timu	1	225000
10	4	2011	sarimbit standar	standar	sarimbit	print	ibu hatam	wanita	jawa timu	1	150000
1	1	2011	kaos katun print	katun	kaos	print	bapak imr	pria	jawa barat	1	60000
2	1	2012	celana standar c	standar	celana	cap	ibu hadi s	wanita	jawa barat	17	55000
3	1	2010	celana standar p	standar	celana	print	ibu hadi s	wanita	jawa barat	17	55000
3	1	2011	bahan standar c	standar	bahan	cap	ibu siti ar	wanita	jawa barat	8	120000
12	4	2012	rok batik print k	batik	rok	print	ibu siti ar	wanita	jawa barat	1	225000
1	1	2012	jam standar prin	standar	jam	print	ibu siti ar	wanita	jawa barat	44	80000
9	3	2012	hem standar cap	standar	hem	cap	ibu aini ka	wanita	jawa teng	1	100000
6	2	2012	bahan lawasan t	lawasan	bahan	tulis	ibu niken	wanita	jawa teng	1	130000
8	3	2011	hem standar tul	standar	hem	tulis	ibu atik	wanita	jawa teng	5	550000
4	2	2012	bahan standar c	standar	bahan	cap	ibu tyas	wanita	jawa teng	7	135000
6	2	2010	bahan beludru c	beludru	bahan	cap	ibu tyas	wanita	jawa teng	1	500000
11	4	2010	hem sutra print	sutra	hem	print	ibu tyas	wanita	jawa teng	5	100000

Create PivotTable

Choose the data that you want to analyze

Select a table or range

Table/Range: Sheet1!$A$1:$L$21

Use an external data source

Choose Connection...

Connection name:

Use this workbook's Data Model

Choose where you want the PivotTable report to be placed

New Worksheet

Existing Worksheet

Location:

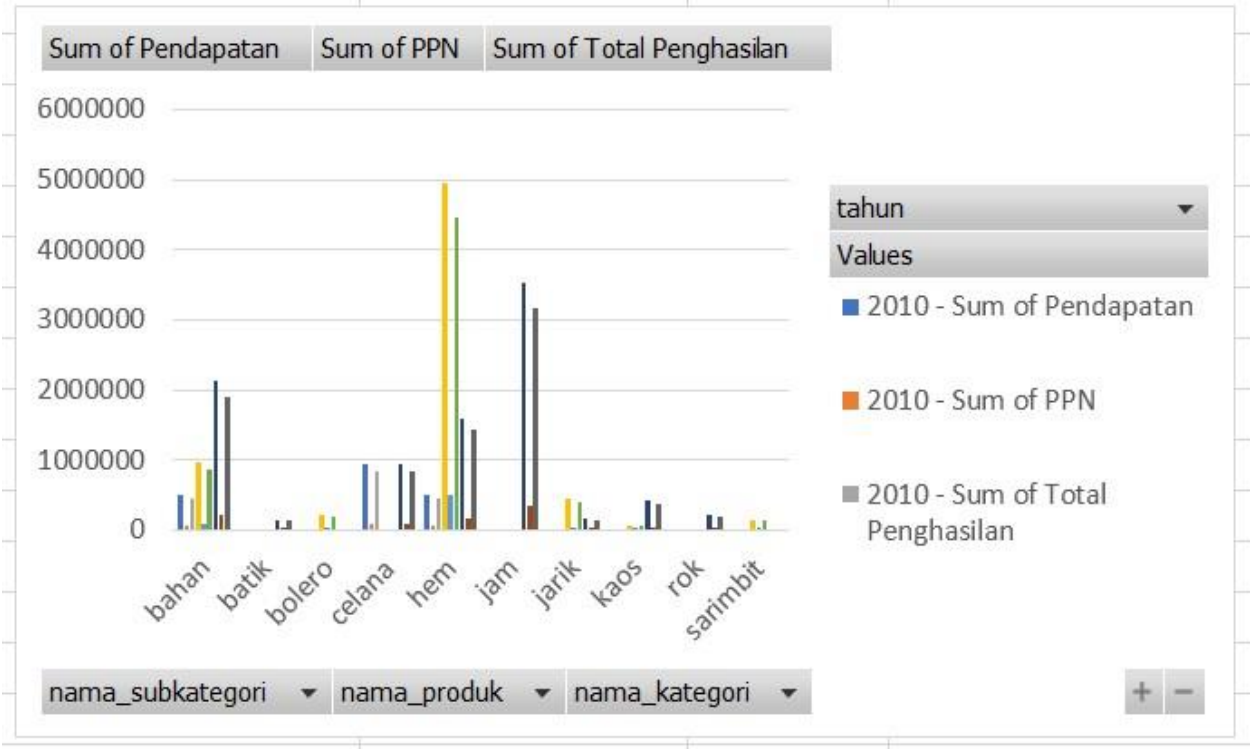
Choose whether you want to analyze multiple tables

Add this data to the Data Model

OK

Cancel

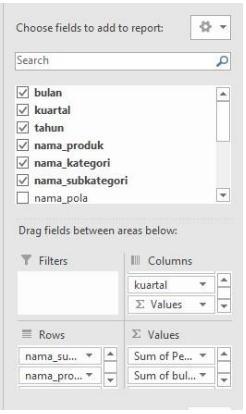
Sum of jumlah	Column Labels			
Row Labels	2010	2011	2012	Grand Total
bahan	1	8	8	17
batik			1	1
bolero		1		1
celana	17		17	34
hem	5	8	4	17
jam			44	44
jarik		2	4	6
kaos		1	14	15
rok			1	1
sarimbit		1		1
Grand Total	**23**	**21**	**93**	**137**



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
batik					1	1	1	1
bolero			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**	**20**

	2012				Total Sum of jumlah	Total Count of jumlah2	Total Sum of Pendapatan
Count of jumlah2	Sum of Pendapatan	Sum of jumlah	Count of jumlah2	Sum of Pendapatan			
1	960000	8	2	2120000	17	4	15045000
	0	1	1	150000	1	1	150000
1	225000			0	1	1	225000
	0	17	1	935000	34	2	3740000
2	4960000	4	2	1596000	17	5	19023000
	0	44	1	3520000	44	1	3520000
1	450000	4	1	160000	6	2	1590000
1	60000	14	1	420000	15	2	1350000
	0	1	1	225000	1	1	225000
1	150000			0	1	1	150000
7	**29400000**	**93**	**10**	**115692000**	**137**	**20**	**451963000**

Column Labels	1					
	2011			2011 Sum of Pendapatan	2011 Sum of bulan	2011 Sum of kuartal
Row Labels	Sum of Pendapatan	Sum of bulan	Sum of kuartal			
bahan	**0**		**0**			
bahan beludru cap mahkota	**0**		**0**			
beludru	0		0			
bahan lawasan tulis tolet	**0**		**0**			
lawasan	0		0			
bahan standar cap garis	**0**		**0**			
standar	0		0			
bahan standar cap lasem	**0**		**0**			
standar	0		0			
batik	**0**		**0**			
bolero	**0**		**0**			
bolero standar cap sidomukti	**0**		**0**			
standar	0		0			
celana	**0**		**0**			
celana standar cap warna	**0**		**0**			
standar	0		0			
celana standar print warna	**0**		**0**			



Sum of Pendapatan	Column Labels			
Row Labels	2010	2011	2012	Grand Total
bahan	500000	960000	2120000	15045000
bahan beludru cap mahkota	500000	0	0	500000
beludru	500000	0	0	500000
bahan lawasan tulis tolet	0	0	130000	130000
lawasan	0	0	130000	130000
bahan standar cap garis	0	0	945000	945000
standar	0	0	945000	945000
bahan standar cap lasem	0	960000	0	960000
standar	0	960000	0	960000
batik	0	0	150000	150000
bolero	0	225000	0	225000
bolero standar cap sidomukti	0	225000	0	225000
standar	0	225000	0	225000
celana	935000	0	935000	3740000
celana standar cap warna	0	0	935000	935000
standar	0	0	935000	935000
celana standar print warna	935000	0	0	935000
standar	935000	0	0	935000
hem	500000	4960000	1596000	19023000
hem katun print kawung	0	210000	0	210000

Sum of Pendapatan	Column Labels			
Row Labels	2010	2011	2012	Grand Total
bahan	500000	960000	2120000	15045000
bahan beludru cap mahkota	500000	0	0	500000
beludru	500000	0	0	500000
bahan lawasan tulis tolet	0	0	130000	130000
lawasan	0	0	130000	130000
bahan standar cap garis	0	0	945000	945000
standar	0	0	945000	945000
bahan standar cap lasem	0	960000	0	960000
standar	0	960000	0	960000
batik	0	0	150000	150000
batik standar cap tumpal	0	0	150000	150000
standar	0	0	150000	150000
bolero	0	225000	0	225000
bolero standar cap sidomukti	0	225000	0	225000
standar	0	225000	0	225000
celana	935000	0	935000	3740000
celana standar cap warna	0	0	935000	935000
standar	0	0	935000	935000

	Column Labels						
	2010			2011			
Row Labels	Sum of Pendapatan	Sum of PPN	Sum of Total Penghasilan	Sum of Pendapatan	Sum of PPN	Sum of Total Penghasilan	Sum of Pendap
bahan	500000	50000	450000	960000	96000	864000	212
bahan beludru cap mahkota	500000	50000	450000	0	0	0	
beludru	500000	50000	450000	0	0	0	
bahan lawasan tulis tolet	0	0	0	0	0	0	13
lawasan	0	0	0	0	0	0	13
bahan standar cap garis	0	0	0	0	0	0	94
standar	0	0	0	0	0	0	94
bahan standar cap lasem	0	0	0	960000	96000	864000	
standar	0	0	0	960000	96000	864000	
batik	0	0	0	0	0	0	15
bolero	0	0	0	225000	22500	202500	
bolero standar cap sidomukti	0	0	0	225000	22500	202500	
standar	0	0	0	225000	22500	202500	
celana	935000	93500	841500	0	0	0	93
celana standar cap warna	0	0	0	0	0	0	93
standar	0	0	0	0	0	0	93
celana standar print warna	935000	93500	841500	0	0	0	
standar	935000	93500	841500	0	0	0	
hem	500000	50000	450000	4960000	496000	4464000	159

PivotTable Fields

Choose fields to add to report:

Search

- bulan
- kuartal
- tahun
- nama_produk
- nama_kategori
- nama_subkategori
- nama_pola

Drag fields between areas below:

Filters | Columns: tahun

Rows: nama_su... | nama_pro...

Values: Sum of Penda...

PivotTable Fields

Choose fields to add to report:

Search

- jumlah
- harga
- Pendapatan
- PPN
- Total Penghasilan

More Tables...

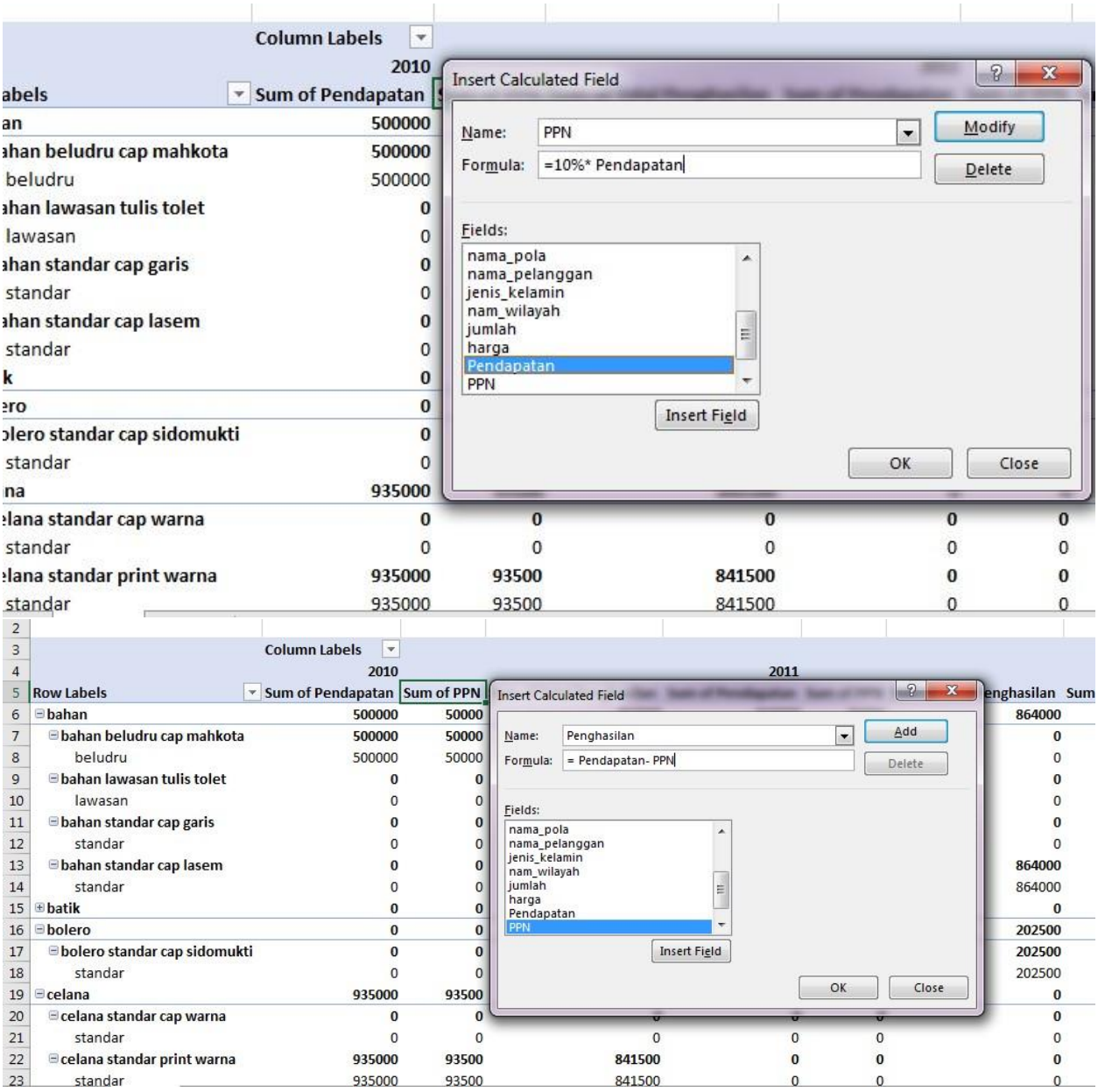
Drag fields between areas below:

Filters | Columns: tahun | Values

Rows: nama_su... | nama_pro...

Values: Sum of Pe... | Sum of PPN

TUGAS



Modul 6

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

JUMLAH IPA	10		NILAI MAX	23
JUMLAH IPS	6		NILAI MIN	16
JUMLAH LAIN	4		MEAN	18,95
			STANDARD DEVIATION	1,66938
JUMLAH TEPAT	13			
JUMLAH TERLAMBAT	7		DATA GABUNGAN	3

KEGUNAAN:

JUMLAH IPA	10
JUMLAH IPS	6
JUMLAH LAIN	4
JUMLAH TEPAT	13
JUMLAH TERLAMBAT	7

COUNTIF : Digunakan untuk menghitung jumlah data sesuai dengan kriteria yang diinginkan

NILAI MAX	23
NILAI MIN	16
MEAN	18,95
STANDARD DEVIATION	1,66938

MAX : Digunakan untuk mencari nilai maksimum pada data yang dipilih

MIN : Digunakan untuk mencari nilai minimum pada data yang dipilih

MEAN : Digunakan untuk mencari nilai rata-rata pada data yang dipilih

STANDARD DEVIATION : Digunakan untuk mencari nilai standard deviasi pada data yang dipilih

DATA GABUNGAN	3

COUNTIFS : Digunakan untuk menghitung jumlah data sesuai dengan kriteria yang diinginkan dengan kriteria lebih dari satu

Modul 7

KEGIATAN

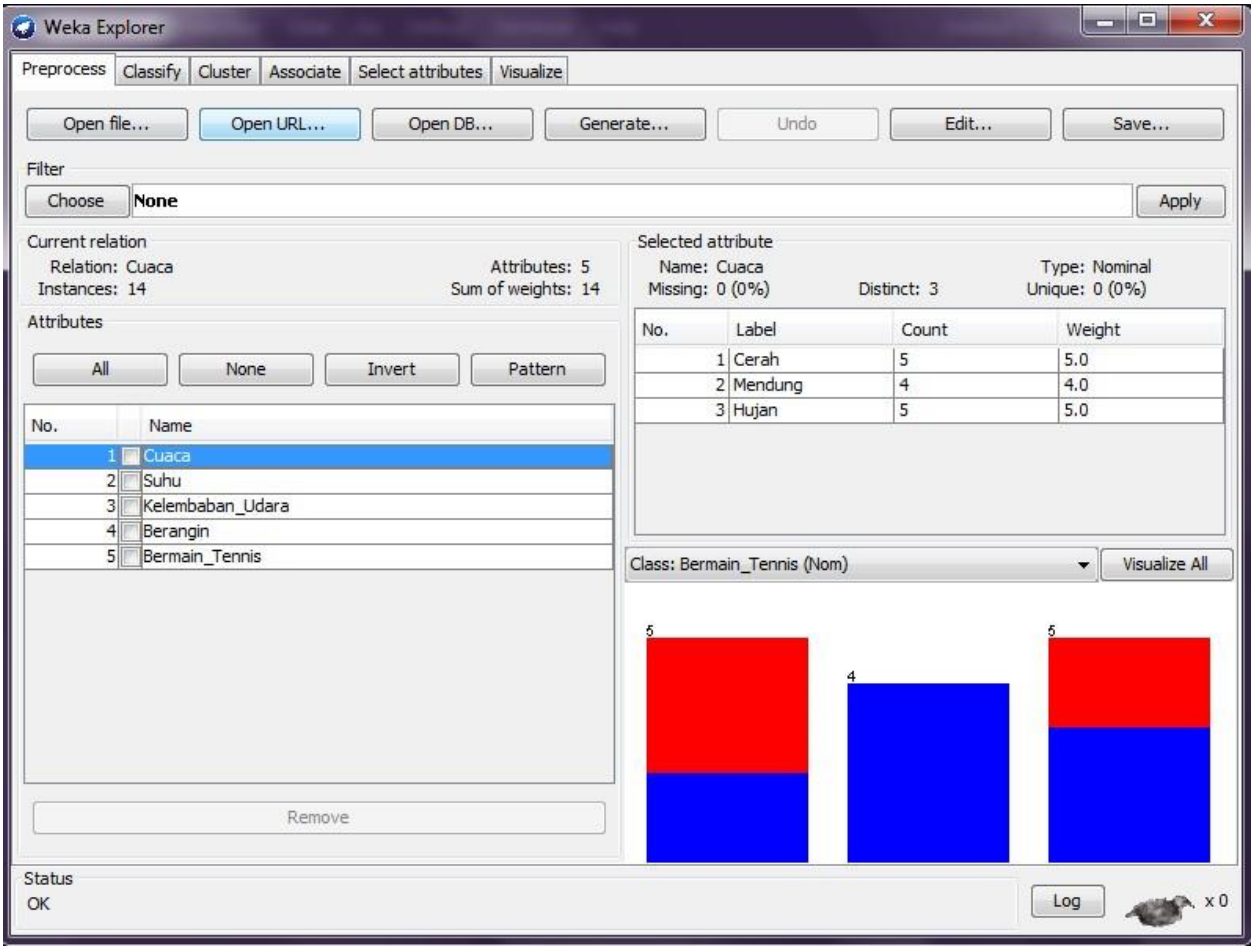
Cuaca.arff

C: > Users > LABSI-15 > Desktop > AFNAN > Cuaca.arff

```
@relation Cuaca

@attribute Cuaca {Cerah, Mendung, Hujan}
@attribute Suhu real
@attribute Kelembaban_Udara real
@attribute Berangin {YA, TIDAK}
@attribute Bermain_Tennis {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
```


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
Attributes
All
None
Invert
Pattern
No.
Name
1 Cuaca
2 Suhu
3 Kelembaban_Udara
4 Berangin
5 Bermain_Tennis
Remove
Selected attribute
Name: Cuaca
Missing: 0 (0%)
Distinct: 3
Type: Nominal
Unique: 0 (0%)
No.
Label
Count
Weight
1 Cerah 5 5.0
2 Mendung 4 4.0
3 Hujan 5 5.0
Class: Bermain_Tennis (Nom)
Visualize All
5
4
5
Status
OK
Log
x 0

Tugas

Cuaca.arff | modul7.arff

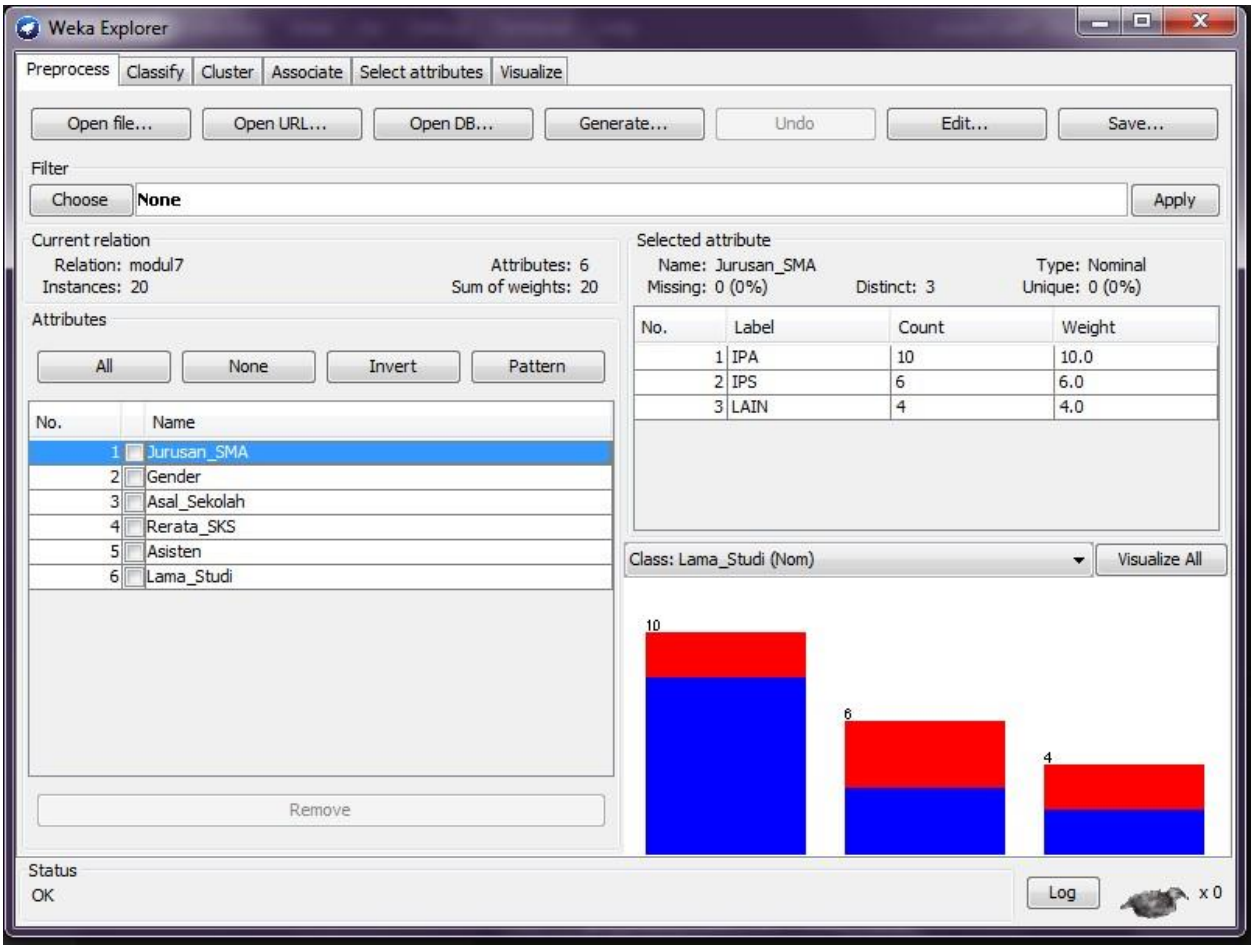
C: > Users > LABSI-15 > Desktop > AFNAN > modul7.arff

```
@relation modul7

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

@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

```



Attribute Binomial : 4

Attribute Polynomial : 1

Jumlah atribut bertipe real : 1

Nilai Minimum : 16

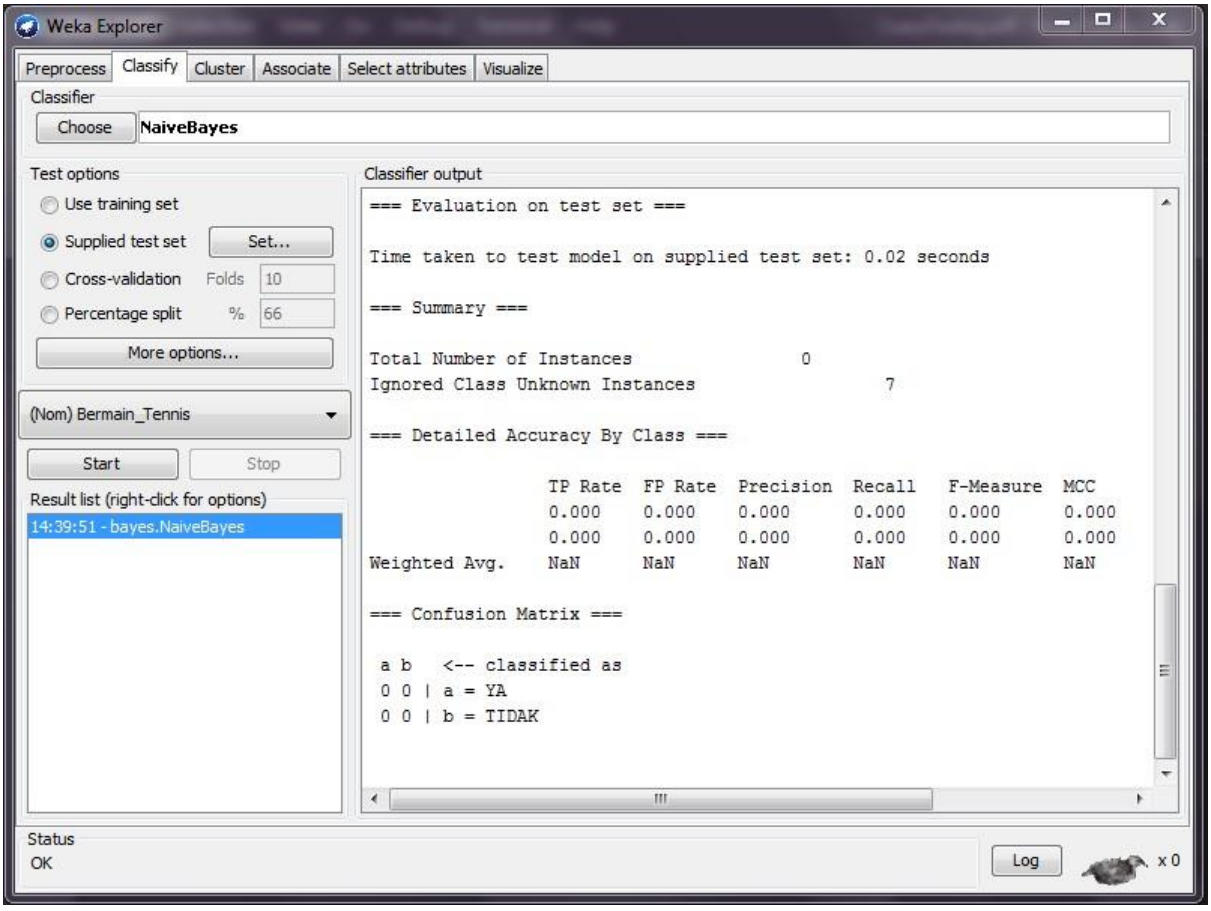
Nilai Maximum : 23

Nilai Mean : 18,95

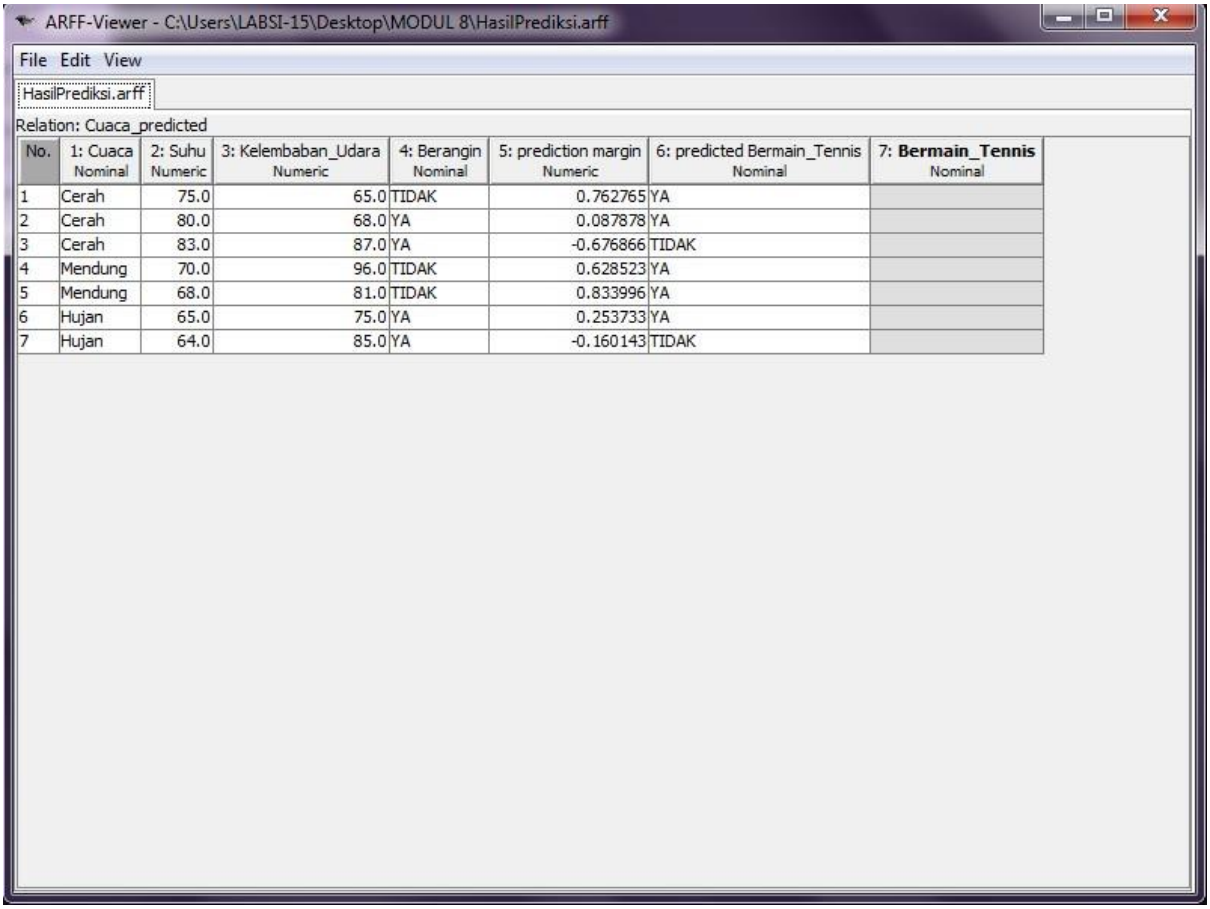
Nilai Standard Deviation : 1,669

Modul 8

Kegiatan

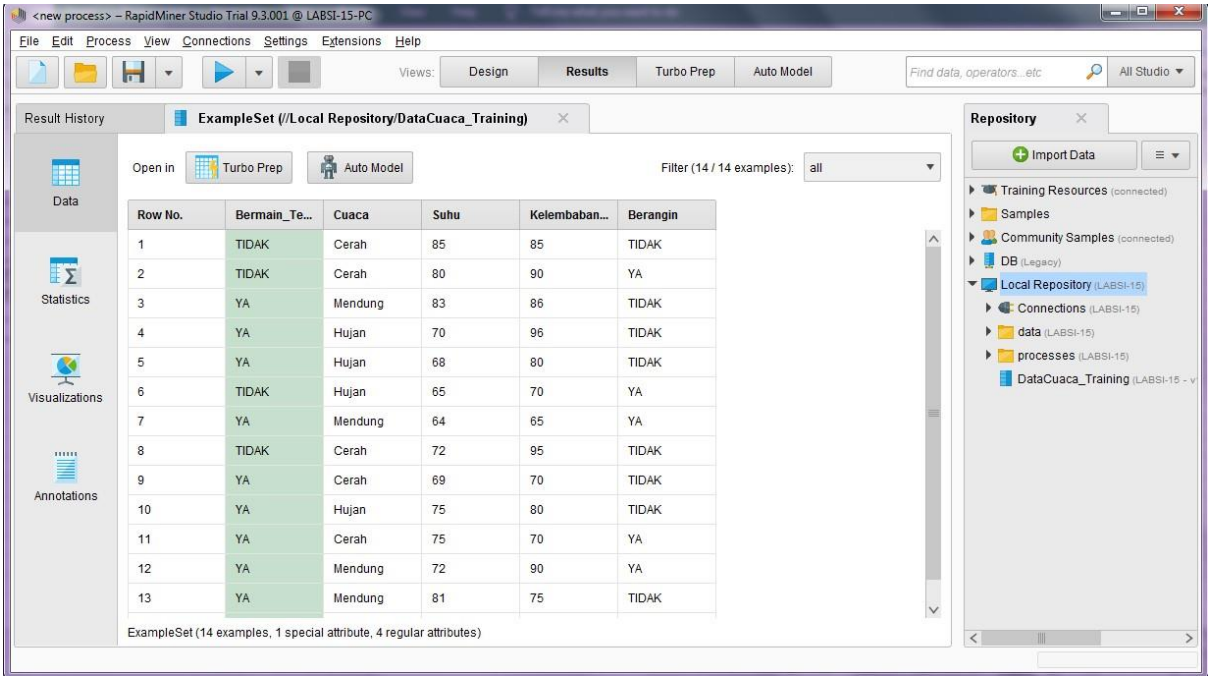


Hasil prediksi

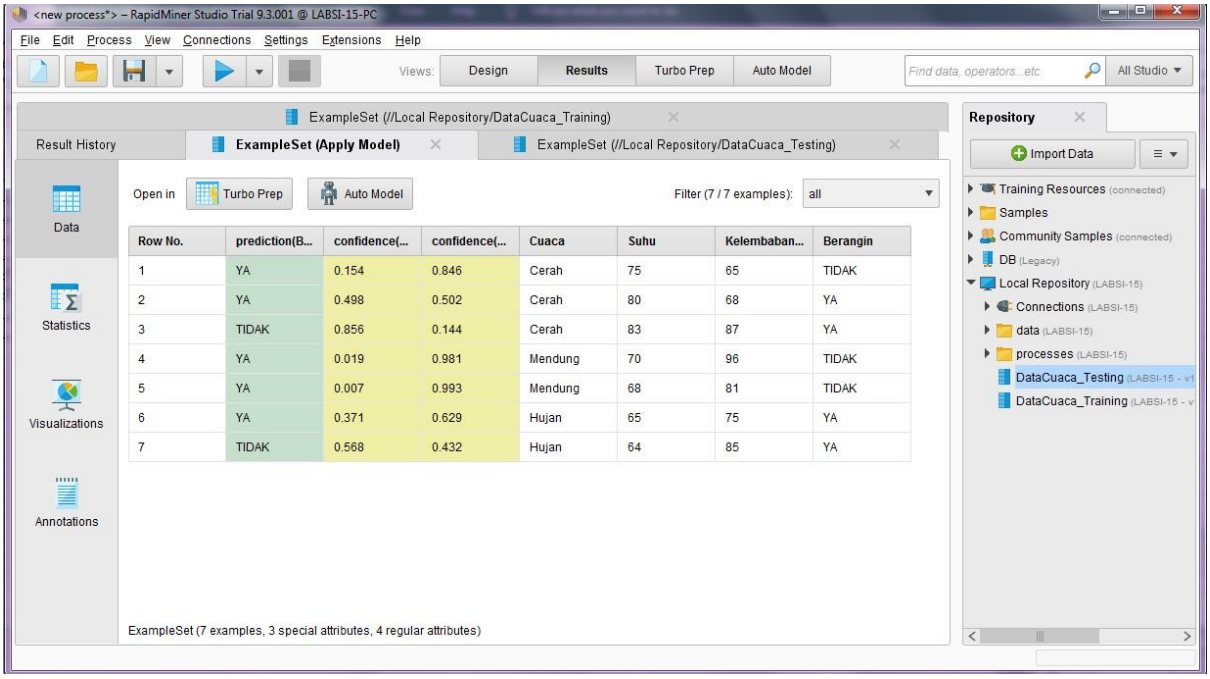


No.	1: Cuaca Nominal	2: Suhu Numeric	3: Kelembaban_Udara Numeric	4: Berangin Nominal	5: prediction margin Numeric	6: predicted Bermain_Tennis Nominal	7: **Bermain_Tennis** Nominal
1	Cerah	75.0	65.0	TIDAK	0.762765	YA	
2	Cerah	80.0	68.0	YA	0.087878	YA	
3	Cerah	83.0	87.0	YA	-0.676866	TIDAK	
4	Mendung	70.0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

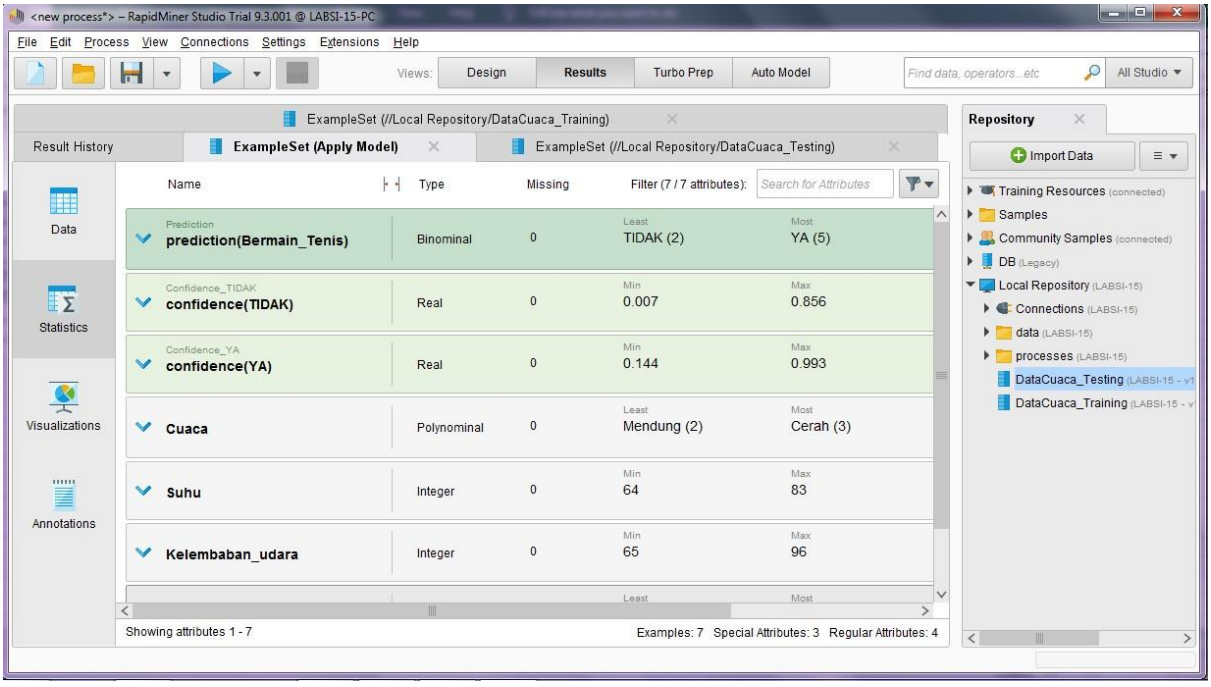
Hasil Import Rapid Miner



Hasil Apply Model

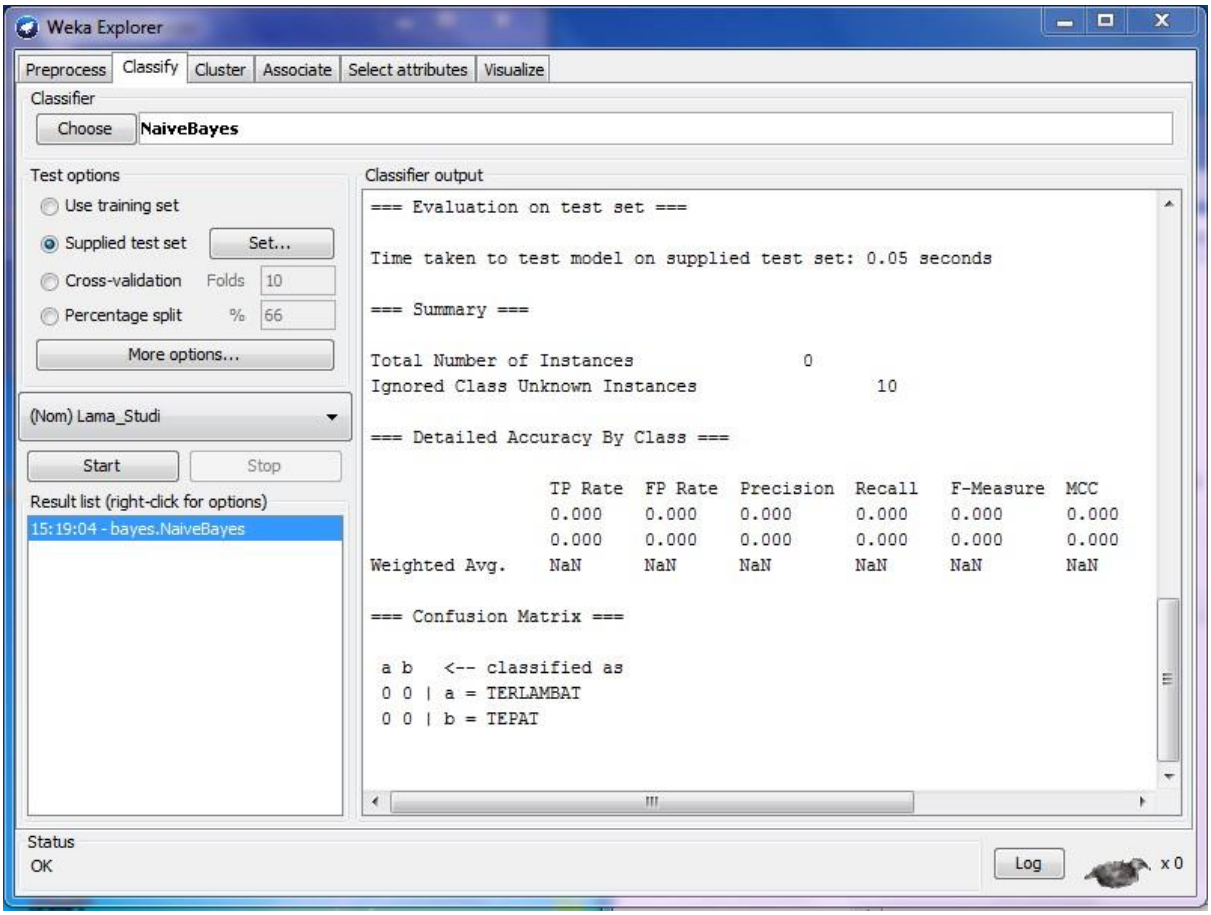


Hasil Apply Statics

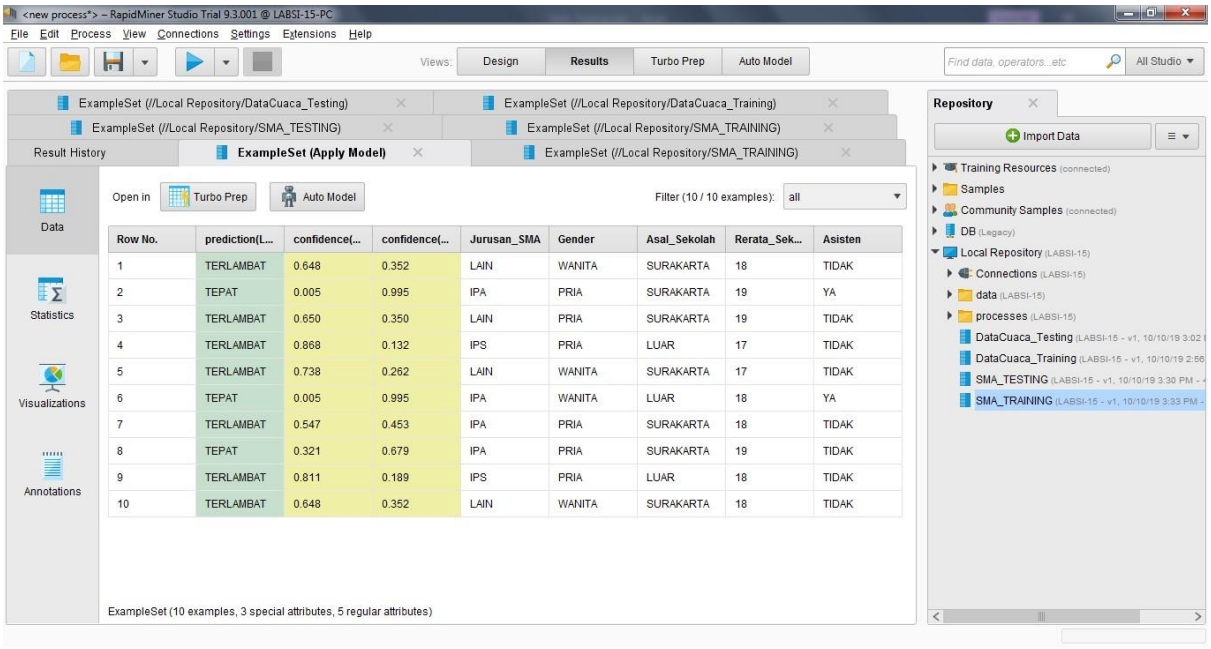


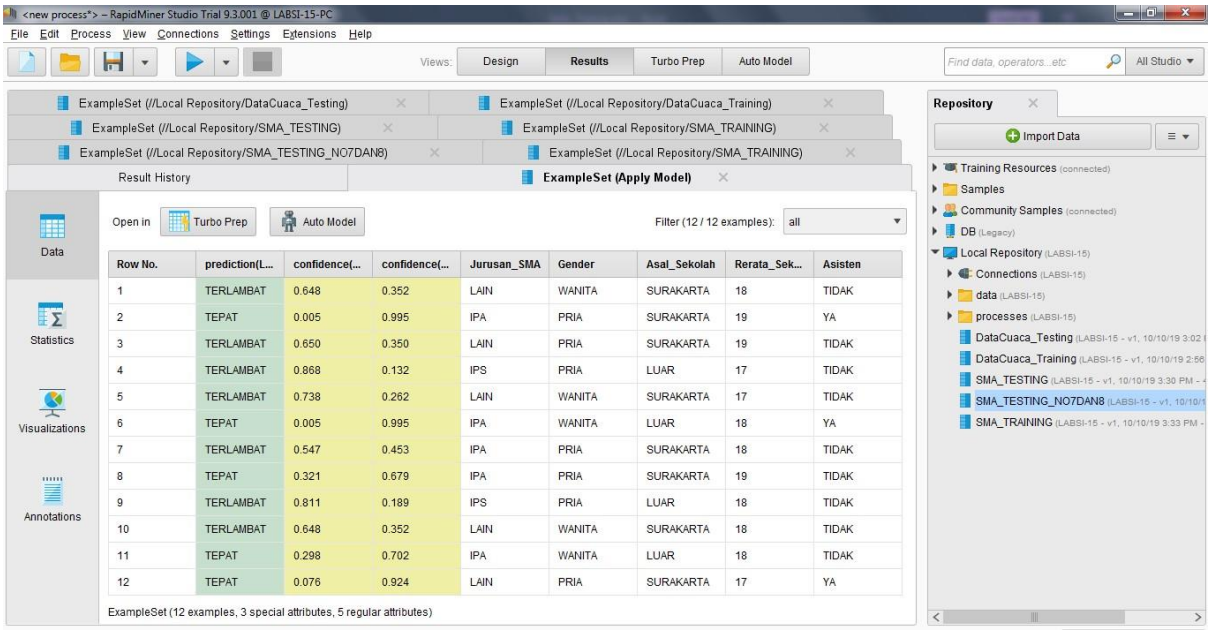
Tugas

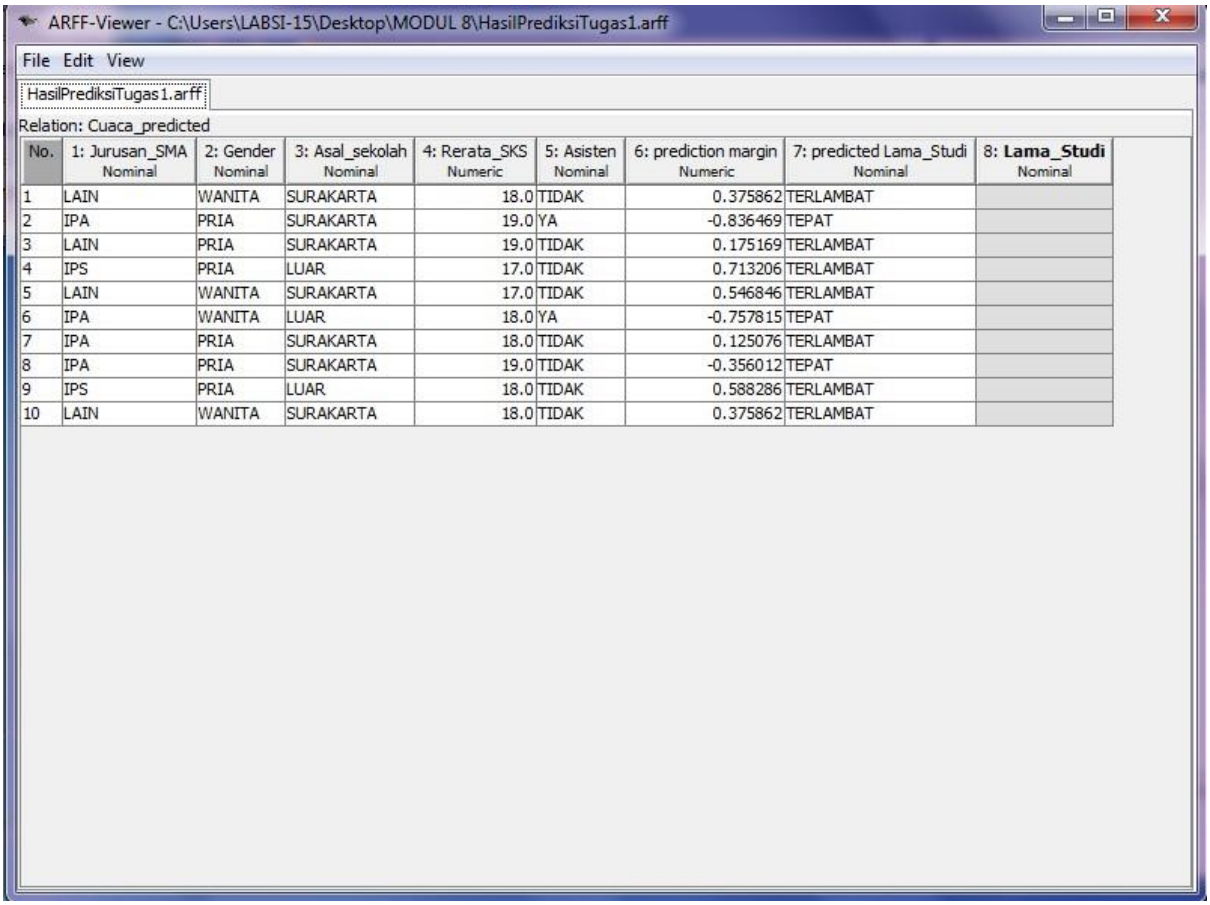
Hasil prediksi menggunakan WEKA



Hasil prediksi menggunakan Rapid Miner


<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-15-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_Testing)
ExampleSet (//Local Repository/DataCuaca_Training)
ExampleSet (//Local Repository/SMA_TESTING)
ExampleSet (//Local Repository/SMA_TRAINING)
Result History
ExampleSet (Apply Model)
ExampleSet (//Local Repository/SMA_TRAINING)
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_Sek... Asisten
1 TERLAMBAT 0.648 0.352 LAIN WANITA SURAKARTA 18 TIDAK
2 TEPAT 0.005 0.995 IPA PRIA SURAKARTA 19 YA
3 TERLAMBAT 0.650 0.350 LAIN PRIA SURAKARTA 19 TIDAK
4 TERLAMBAT 0.868 0.132 IPS PRIA LUAR 17 TIDAK
5 TERLAMBAT 0.738 0.262 LAIN WANITA SURAKARTA 17 TIDAK
6 TEPAT 0.005 0.995 IPA WANITA LUAR 18 YA
7 TERLAMBAT 0.547 0.453 IPA PRIA SURAKARTA 18 TIDAK
8 TEPAT 0.321 0.679 IPA PRIA SURAKARTA 19 TIDAK
9 TERLAMBAT 0.811 0.189 IPS PRIA LUAR 18 TIDAK
10 TERLAMBAT 0.648 0.352 LAIN WANITA SURAKARTA 18 TIDAK
ExampleSet (10 examples, 3 special attributes, 5 regular attributes)
Repository
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB (Legacy)
Local Repository (LABSI-15)
Connections (LABSI-15)
data (LABSI-15)
processes (LABSI-15)
DataCuaca_Testing (LABSI-15 - v1, 10/10/19 3:02
DataCuaca_Training (LABSI-15 - v1, 10/10/19 2:56
SMA_TESTING (LABSI-15 - v1, 10/10/19 3:30 PM -
SMA_TRAINING (LABSI-15 - v1, 10/10/19 3:33 PM -


<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-15-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_Testing)
ExampleSet (//Local Repository/DataCuaca_Training)
ExampleSet (//Local Repository/SMA_TESTING)
ExampleSet (//Local Repository/SMA_TRAINING)
ExampleSet (//Local Repository/SMA_TESTING_NO7DAN8)
ExampleSet (//Local Repository/SMA_TRAINING)
Result History
ExampleSet (Apply Model)
Data
Statistics
Visualizations
Annotations
Open in Turbo Prep
Auto Model
Filter (12 / 12 examples): all
Row No. prediction(L... confidence(... confidence(... Jurusan_SMA Gender Asal_Sekolah Rerata_Sek... Asisten
1 TERLAMBAT 0.648 0.352 LAIN WANITA SURAKARTA 18 TIDAK
2 TEPAT 0.005 0.995 IPA PRIA SURAKARTA 19 YA
3 TERLAMBAT 0.650 0.350 LAIN PRIA SURAKARTA 19 TIDAK
4 TERLAMBAT 0.868 0.132 IPS PRIA LUAR 17 TIDAK
5 TERLAMBAT 0.738 0.262 LAIN WANITA SURAKARTA 17 TIDAK
6 TEPAT 0.005 0.995 IPA WANITA LUAR 18 YA
7 TERLAMBAT 0.547 0.453 IPA PRIA SURAKARTA 18 TIDAK
8 TEPAT 0.321 0.679 IPA PRIA SURAKARTA 19 TIDAK
9 TERLAMBAT 0.811 0.189 IPS PRIA LUAR 18 TIDAK
10 TERLAMBAT 0.648 0.352 LAIN WANITA SURAKARTA 18 TIDAK
11 TEPAT 0.298 0.702 IPA WANITA LUAR 18 TIDAK
12 TEPAT 0.076 0.924 LAIN PRIA SURAKARTA 17 YA
ExampleSet (12 examples, 3 special attributes, 5 regular attributes)
Repository
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB (Legacy)
Local Repository (LABSI-15)
Connections (LABSI-15)
data (LABSI-15)
processes (LABSI-15)
DataCuaca_Testing (LABSI-15 - v1, 10/10/19 3:02
DataCuaca_Training (LABSI-15 - v1, 10/10/19 2:56
SMA_TESTING (LABSI-15 - v1, 10/10/19 3:30 PM -
SMA_TESTING_NO7DAN8 (LABSI-15 - v1, 10/10/
SMA_TRAINING (LABSI-15 - v1, 10/10/19 3:33 PM -

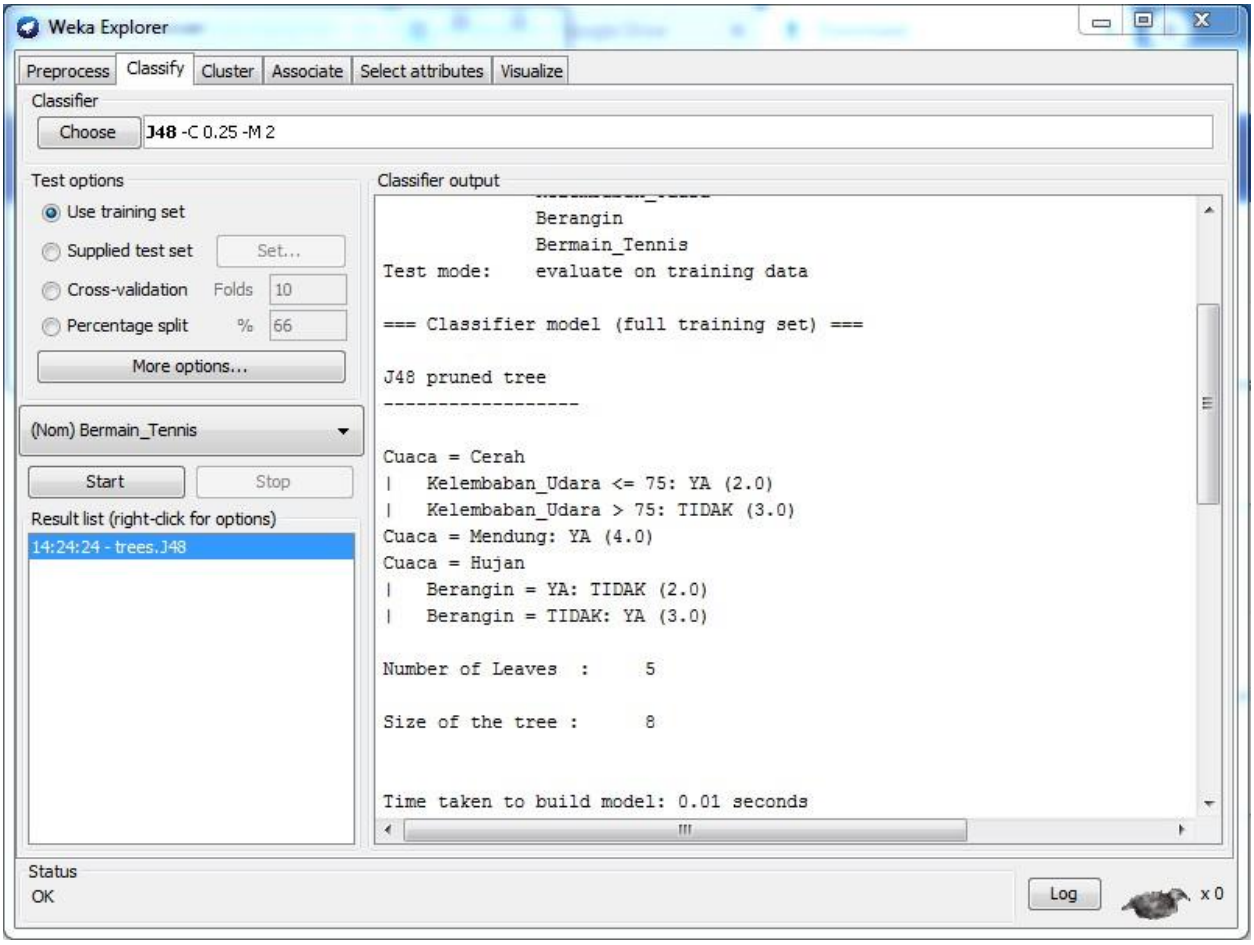


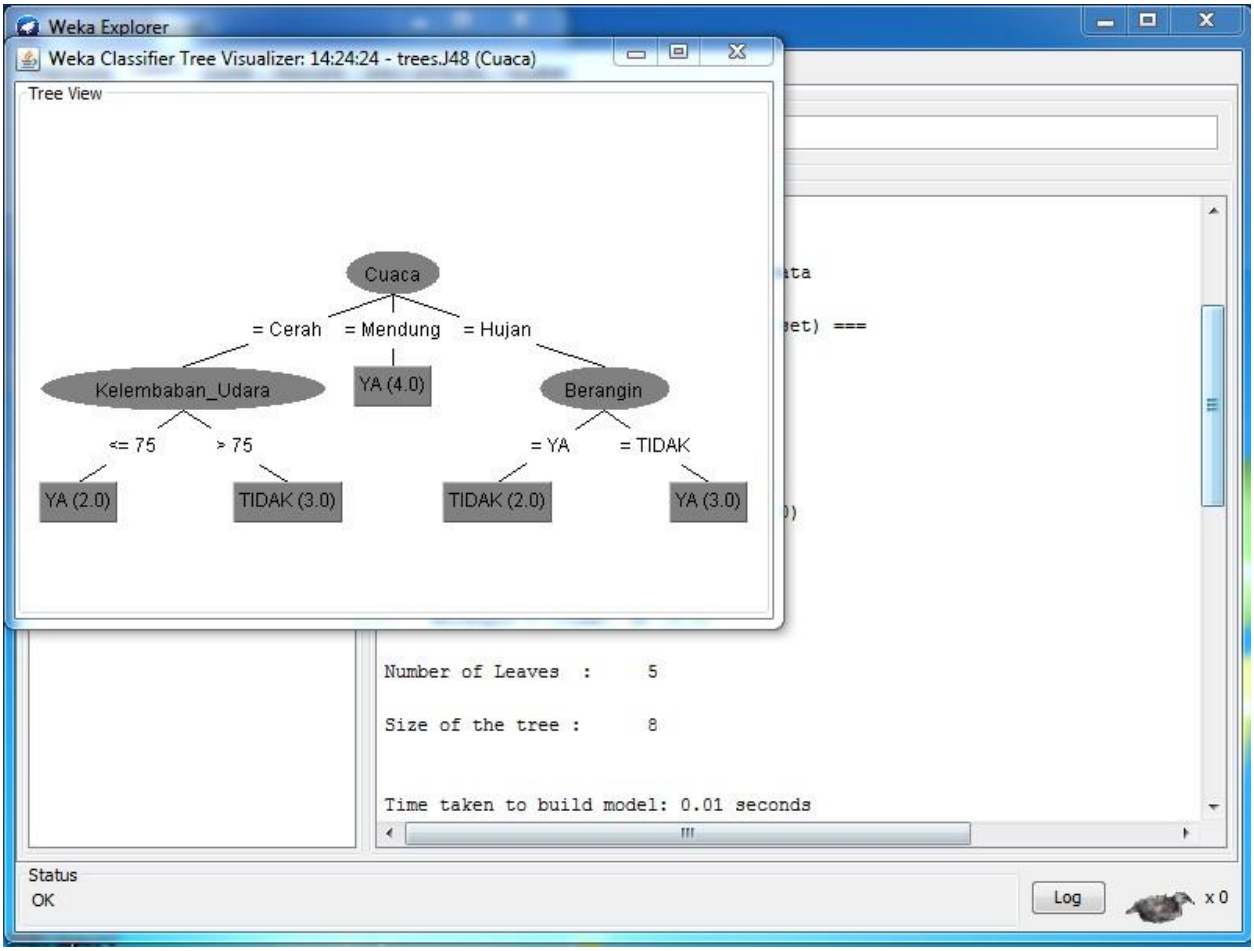
No.	1: Jurusan_SMA Nominal	2: Gender Nominal	3: Asal_sekolah Nominal	4: Rerata_SKS Numeric	5: Asisten Nominal	6: prediction margin Numeric	7: predicted Lama_Studi Nominal	8: **Lama_Studi** Nominal
1	LAIN	WANITA	SURAKARTA	18.0	TIDAK	0.375862	TERLAMBAT	
2	IPA	PRIA	SURAKARTA	19.0	YA	-0.836469	TEPAT	
3	LAIN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

Modul 9

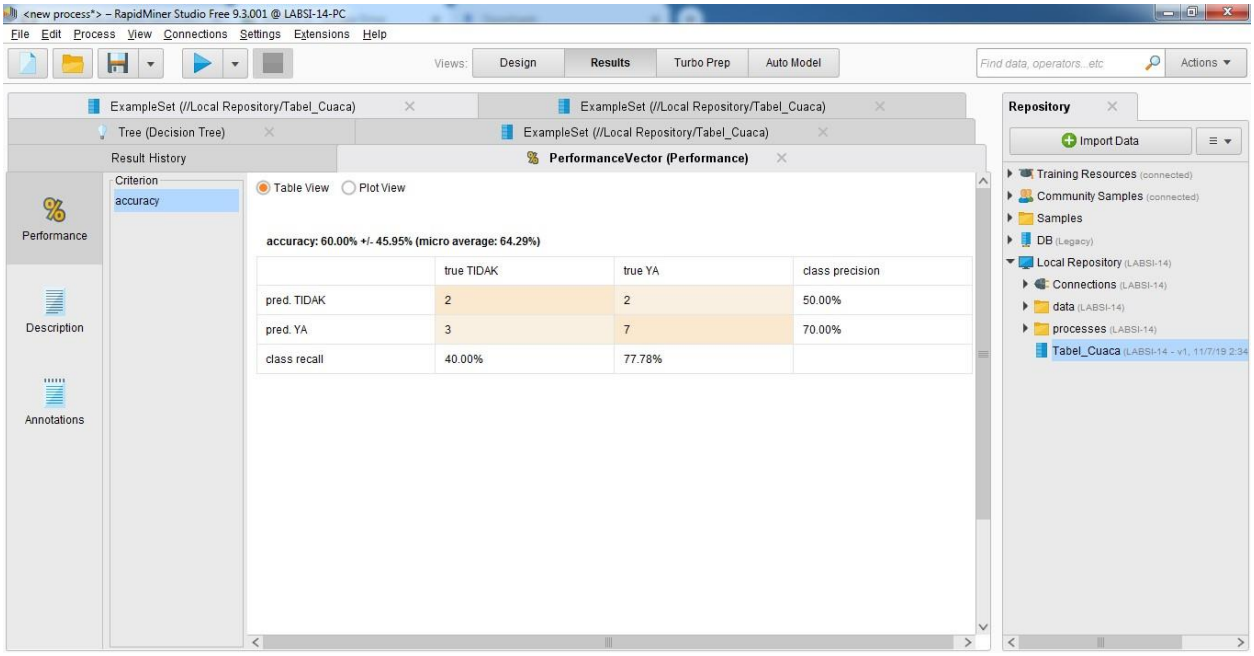
Kegiatan

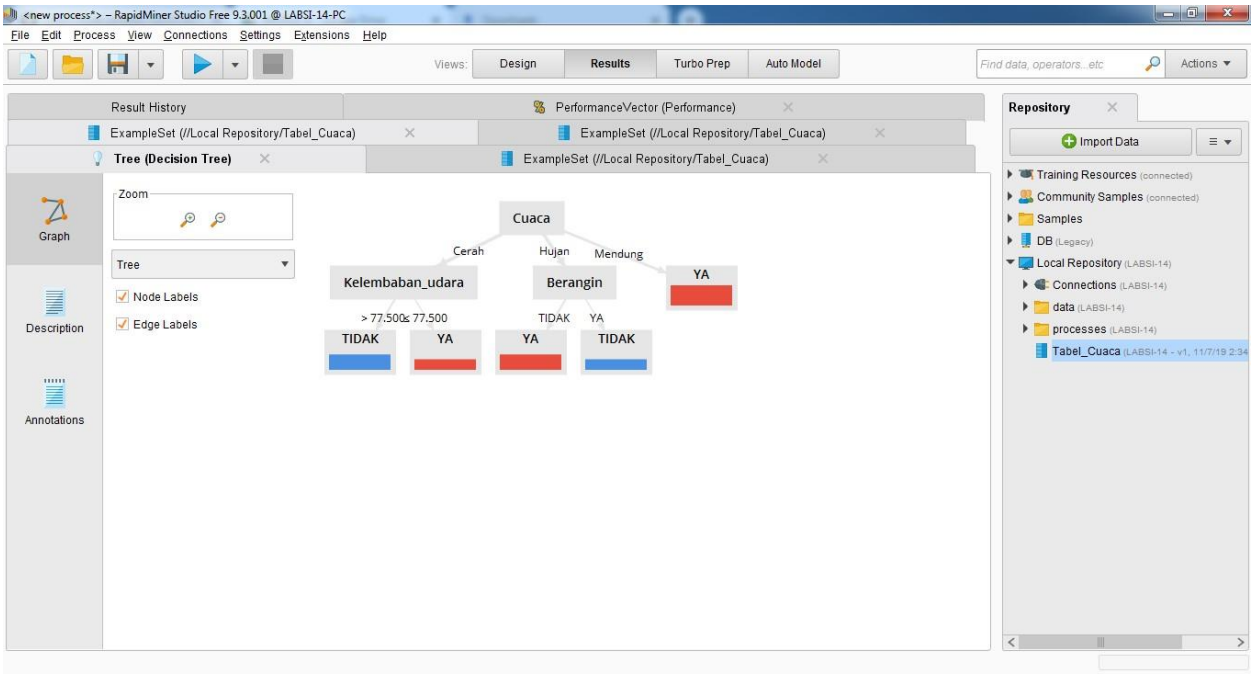
Kegiatan 1


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_Tennis
Start
Stop
Result list (right-click for options)
14:24:24 - trees.J48
Classifier output
Berangin
Bermain_Tennis
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
Status
OK
Log
x 0


Weka Explorer
Weka Classifier Tree Visualizer: 14:24:24 - 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)
Number of Leaves : 5
Size of the tree : 8
Time taken to build model: 0.01 seconds
Status
OK
Log
x 0

Kegiatan 2


<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-14-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc Actions
ExampleSet (//Local Repository/Tabel_Cuaca)
Tree (Decision Tree)
Result History
PerformanceVector (Performance)
Criterion
accuracy
Table View Plot View
accuracy: 60.00% +/- 45.95% (micro average: 64.29%)
true TIDAK true YA class precision
pred. TIDAK 2 2 50.00%
pred. YA 3 7 70.00%
class recall 40.00% 77.78%
Performance
Description
Annotations
Repository
Import Data
Training Resources (connected)
Community Samples (connected)
Samples
DB (Legacy)
Local Repository (LABSI-14)
Connections (LABSI-14)
data (LABSI-14)
processes (LABSI-14)
Tabel_Cuaca (LABSI-14 - v1, 11/7/19 2:34

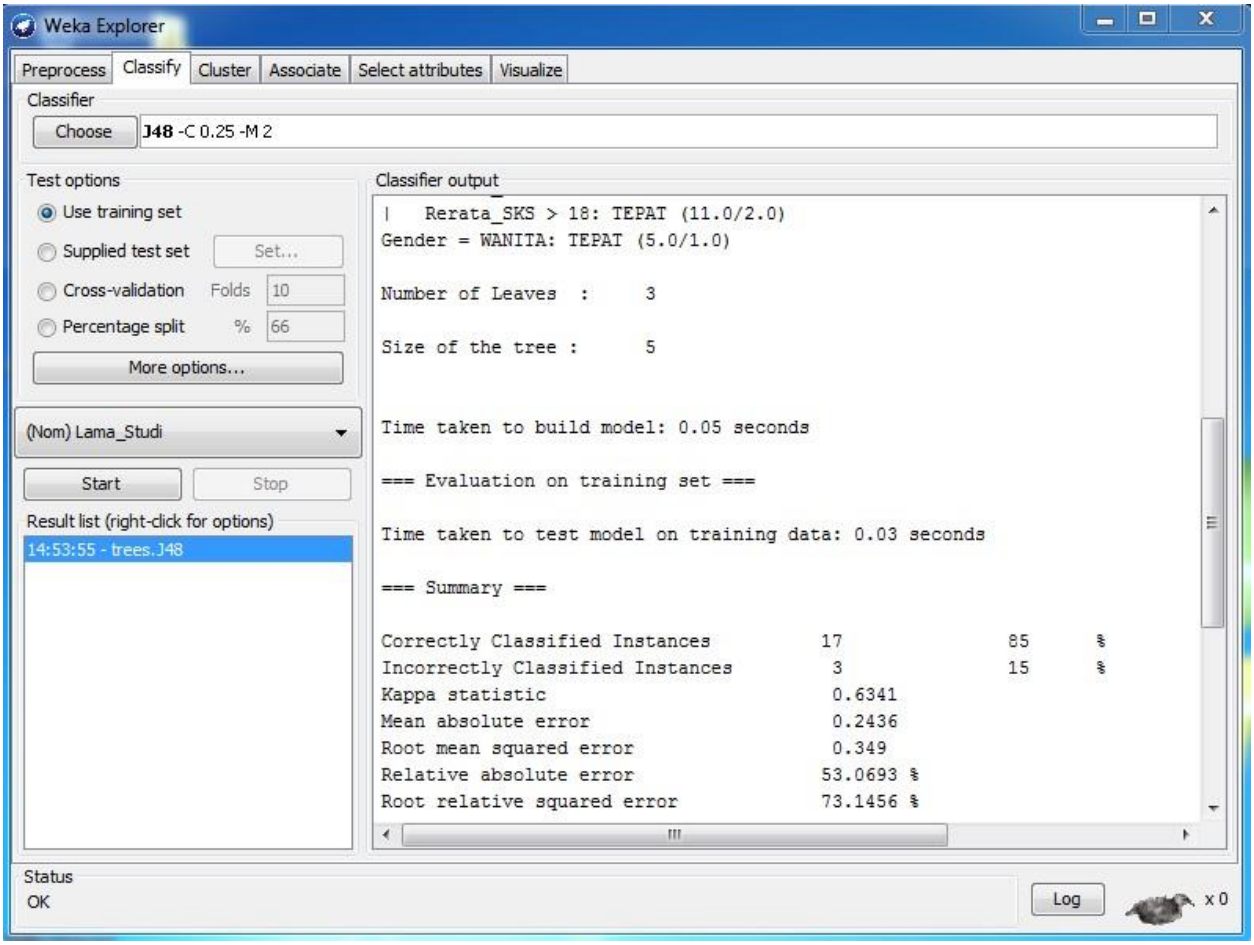

<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-14-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc Actions
Result History
PerformanceVector (Performance)
ExampleSet (//Local Repository/Tabel_Cuaca)
Tree (Decision Tree)
Zoom
Tree
Node Labels
Edge Labels
Cuaca
Cerah
Hujan
Mendung
Kelembaban_udara
Berangin
YA
> 77.500
≤ 77.500
TIDAK
YA
TIDAK
YA
YA
TIDAK
Graph
Description
Annotations
Repository
Import Data
Training Resources (connected)
Community Samples (connected)
Samples
DB (Legacy)
Local Repository (LABSI-14)
Connections (LABSI-14)
data (LABSI-14)
processes (LABSI-14)
Tabel_Cuaca (LABSI-14 - v1, 11/7/19 2:34

Tugas

Nomor 1

Cuaca	Suhu	Kelembapan Udara	Berangin	Bermain_Tennis
Cerah	75	65	TIDAK	TIDAK
Cerah	80	68	YA	TIDAK
Cerah	83	87	YA	YA
Mendung	70	96	TIDAK	YA
Mendung	68	81	TIDAK	YA
Hujan	65	75	TIDAK	TIDAK
Hujan	64	85	YA	YA

Nomor 2



Nilai-nilai parameter:

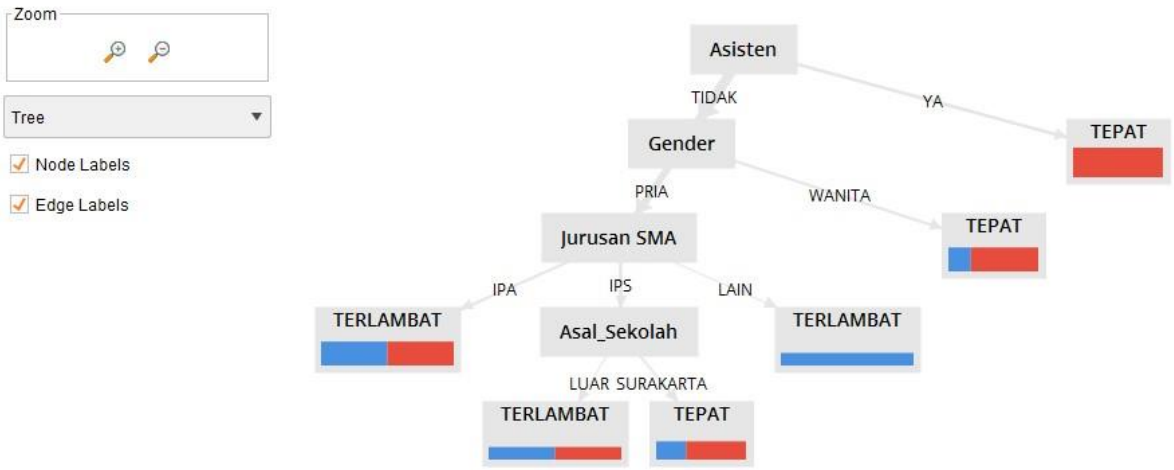
i. Jumlah simpul daun pada pohon keputusan = 3

ii. Jumlah simpul keseluruhan pada pohon keputusan = 5

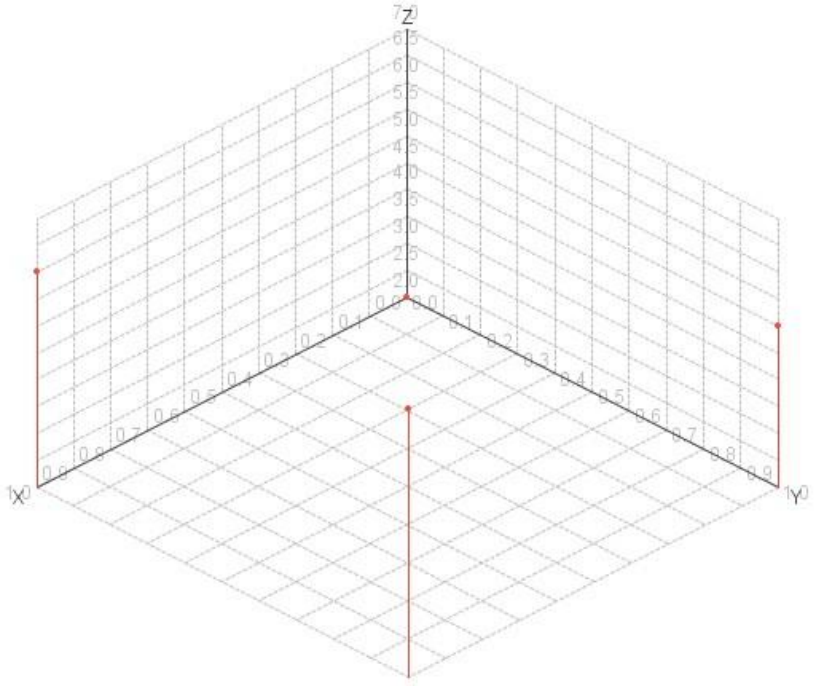
iii. Waktu yang dibutuhkan untuk proses pelatihan= 0,03 detik iv. Tingkat ketepatan klasifikasi = 85%

v. Tingkat ketidaktepatan klasifikasi= 15%

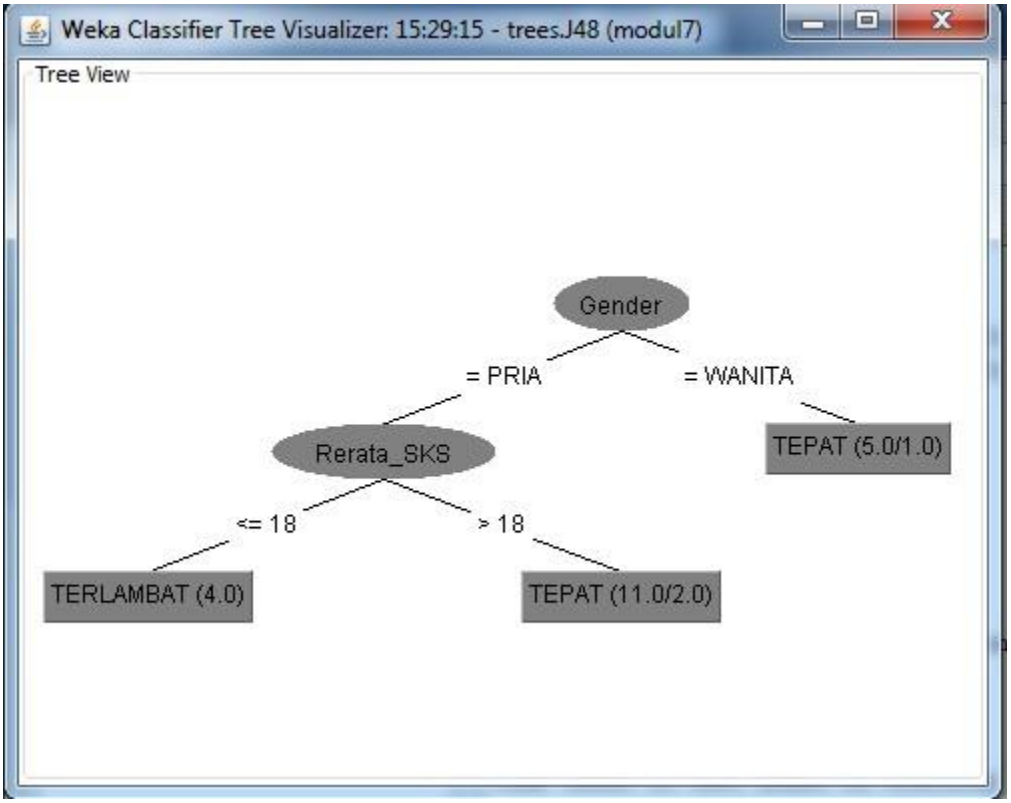
Nomor 3



Confusion Matrix (x: true class, y: pred. class, z: counters)



Nomor 4



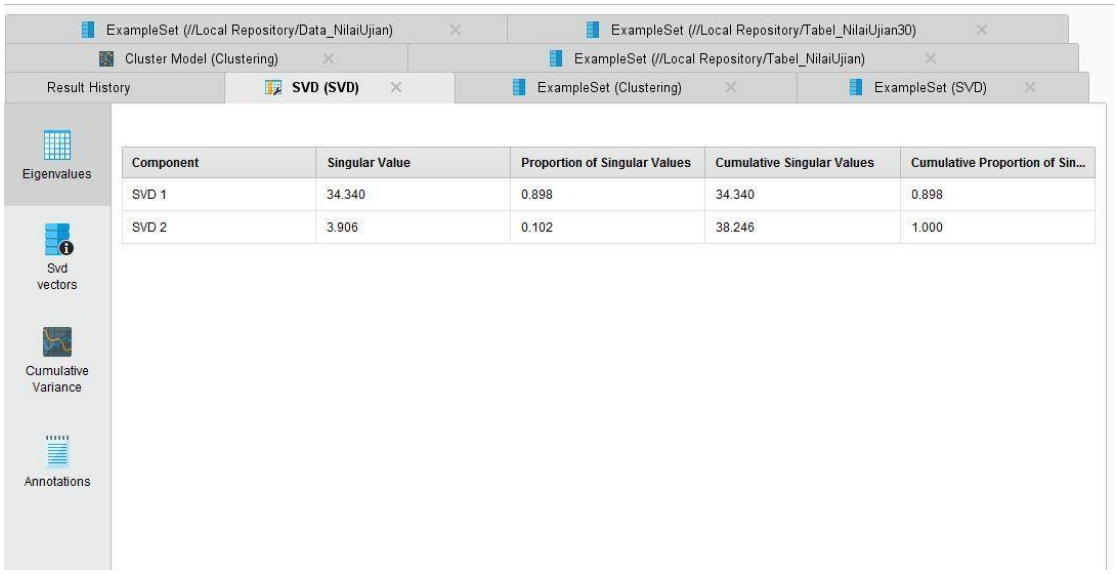
Simpul akar = Gender

Simpul Internal = rerata_SKS

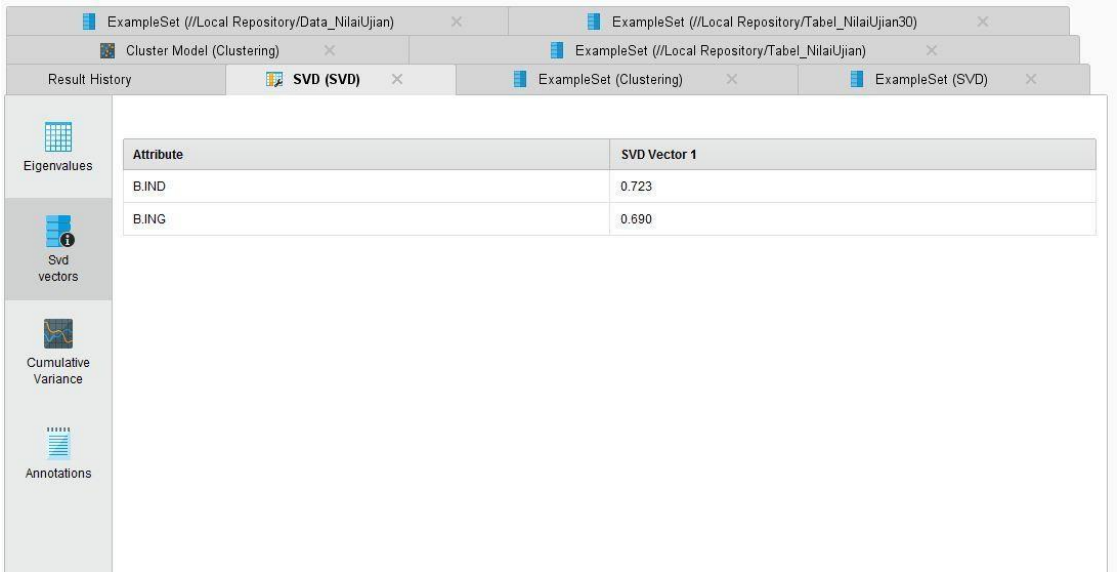
Simpul Daun = TERLAMBAT,TEPAT

Modul 10

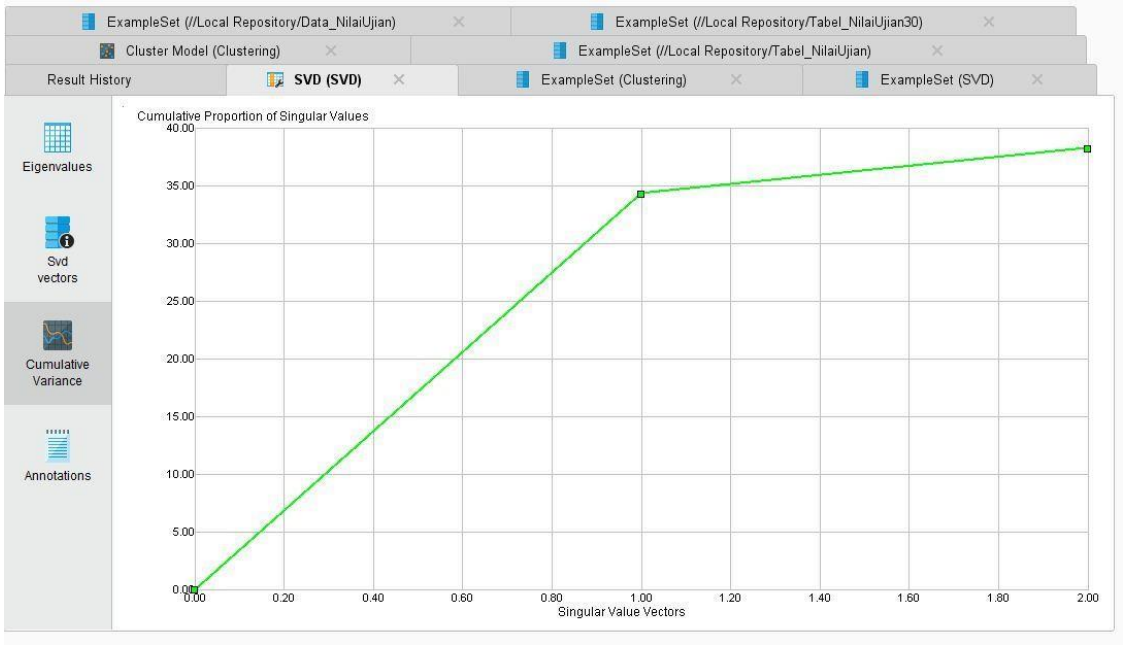
Kegiatan

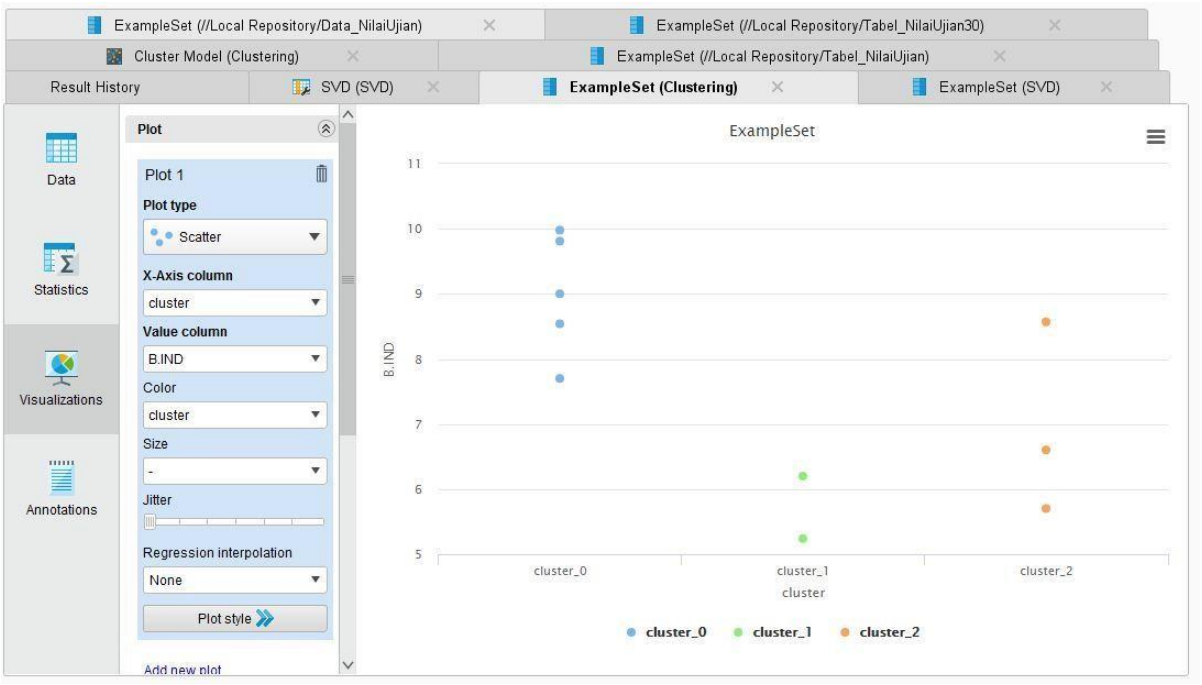


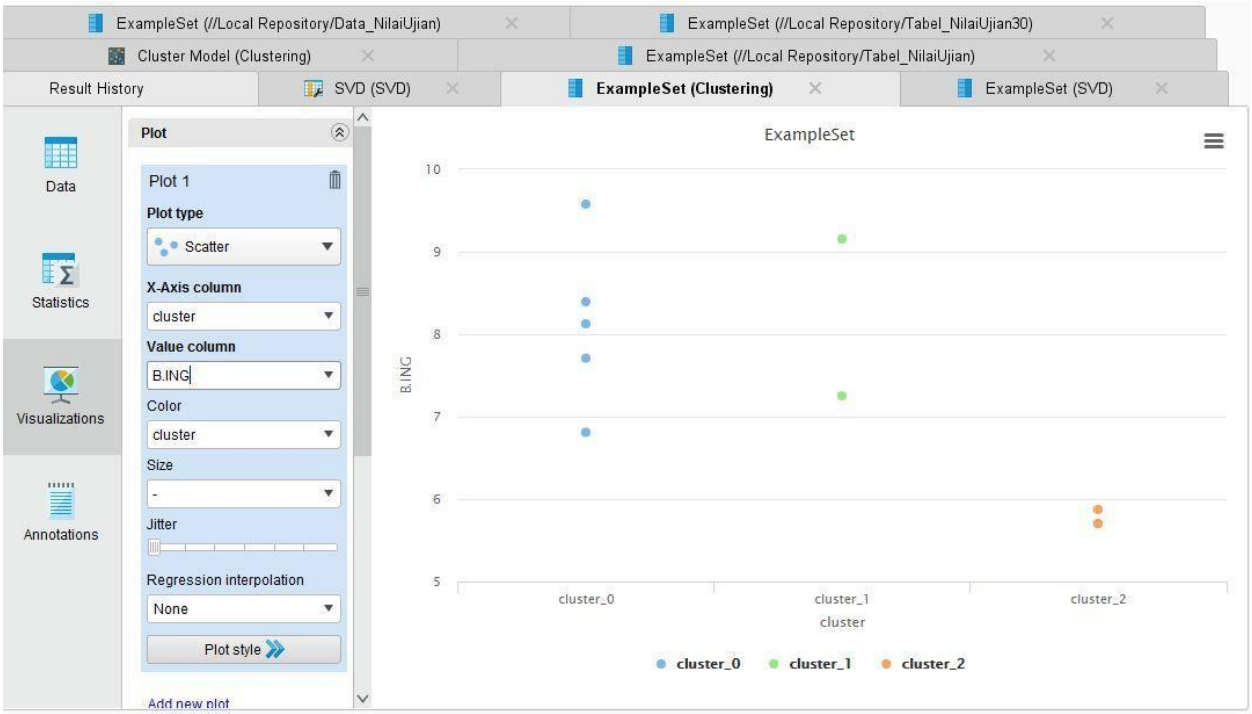
Component	Singular Value	Proportion of Singular Values	Cumulative Singular Values	Cumulative Proportion of Sin...
SVD 1	34.340	0.898	34.340	0.898
SVD 2	3.906	0.102	38.246	1.000

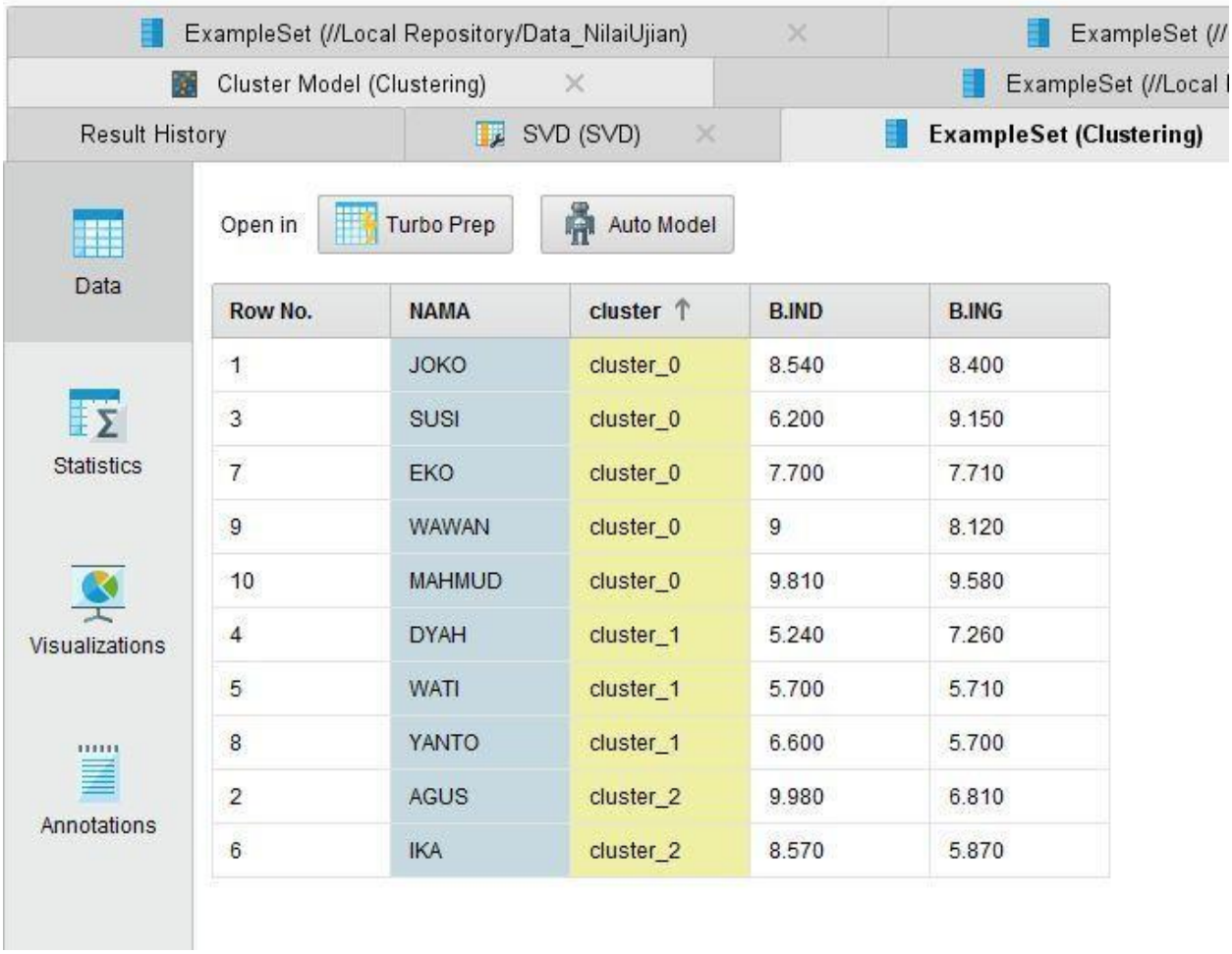


Attribute	SVD Vector 1
B.IND	0.723
B.ING	0.690

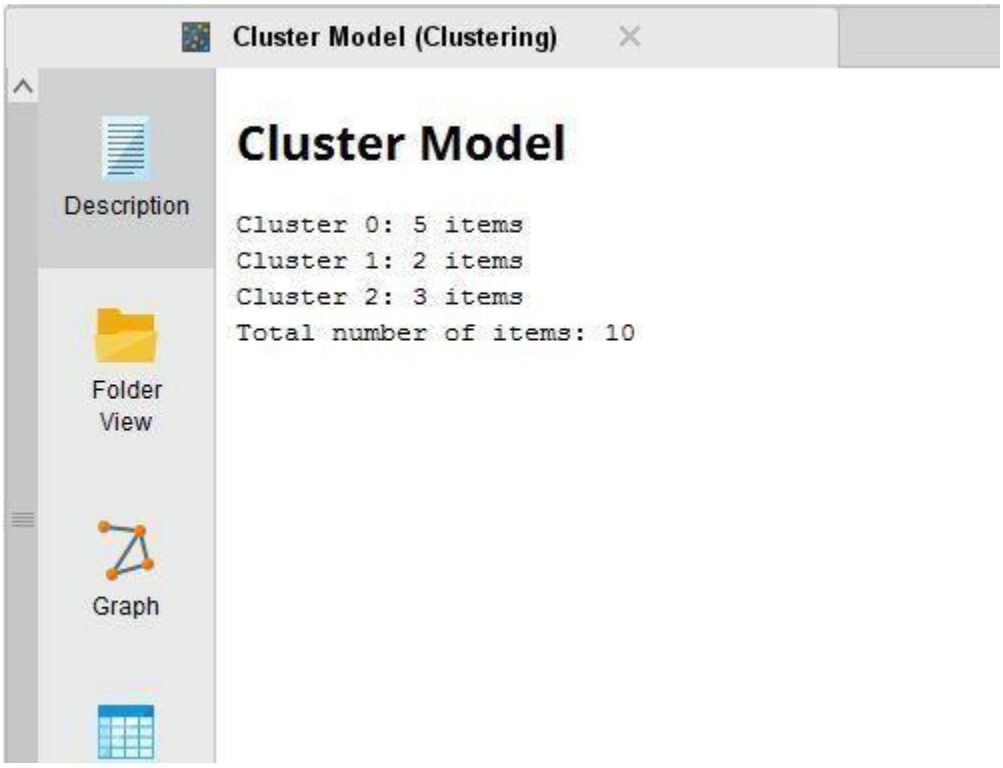

ExampleSet (//Local Repository/Data_NilaiUjian)
ExampleSet (//Local Repository/Tabel_NilaiUjian30)
Cluster Model (Clustering)
ExampleSet (//Local Repository/Tabel_NilaiUjian)
Result History
SVD (SVD)
ExampleSet (Clustering)
ExampleSet (SVD)
Eigenvalues
Svd vectors
Cumulative Variance
Annotations
Cumulative Proportion of Singular Values
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
Singular Value Vectors

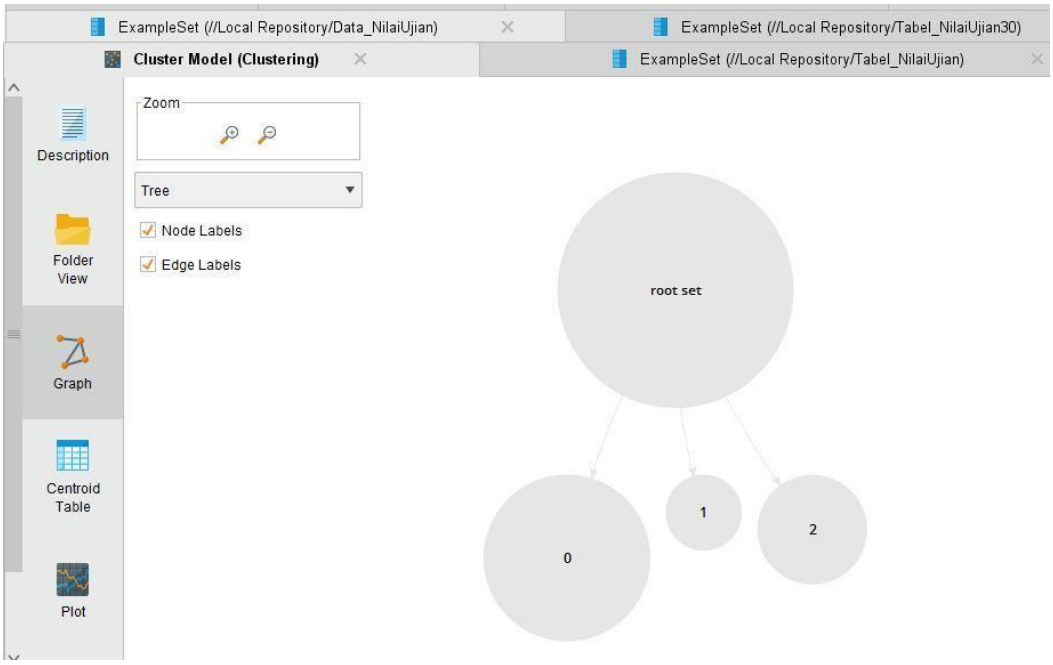

ExampleSet (//Local Repository/Data_NilaiUjian)
ExampleSet (//Local Repository/Tabel_NilaiUjian30)
Cluster Model (Clustering)
ExampleSet (//Local Repository/Tabel_NilaiUjian)
Result History
SVD (SVD)
ExampleSet (Clustering)
ExampleSet (SVD)
Data
Statistics
Visualizations
Annotations
Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
B.IND
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
Add new plot
ExampleSet
B.IND
11
10
9
8
7
6
5
cluster_0
cluster_1
cluster_2
cluster
cluster_0
cluster_1
cluster_2



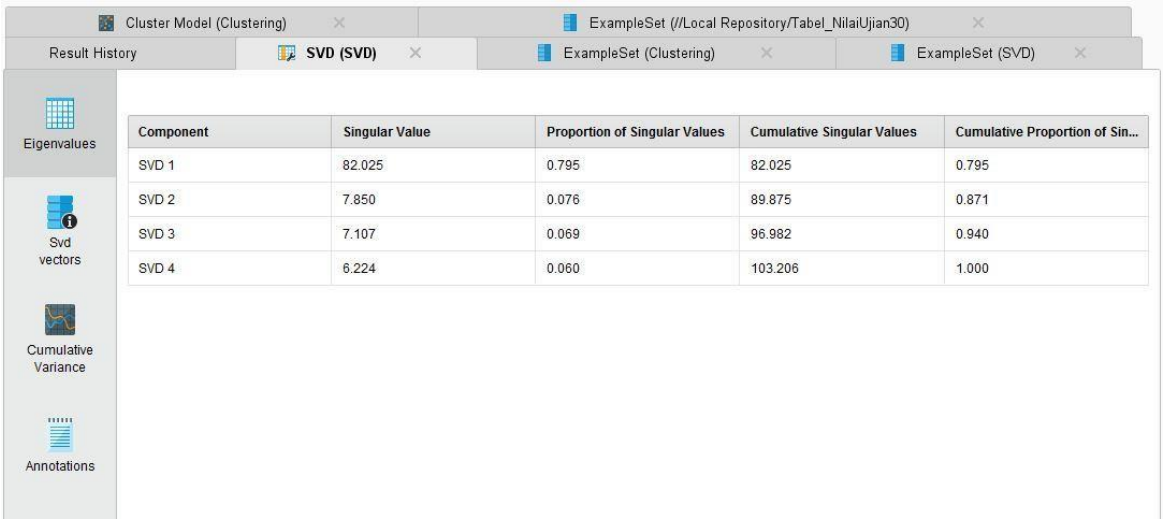


Row No.	NAMA	cluster	B.IND	B.ING
1	JOKO	cluster_0	8.540	8.400
3	SUSI	cluster_0	6.200	9.150
7	EKO	cluster_0	7.700	7.710
9	WAWAN	cluster_0	9	8.120
10	MAHMUD	cluster_0	9.810	9.580
4	DYAH	cluster_1	5.240	7.260
5	WATI	cluster_1	5.700	5.710
8	YANTO	cluster_1	6.600	5.700
2	AGUS	cluster_2	9.980	6.810
6	IKA	cluster_2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

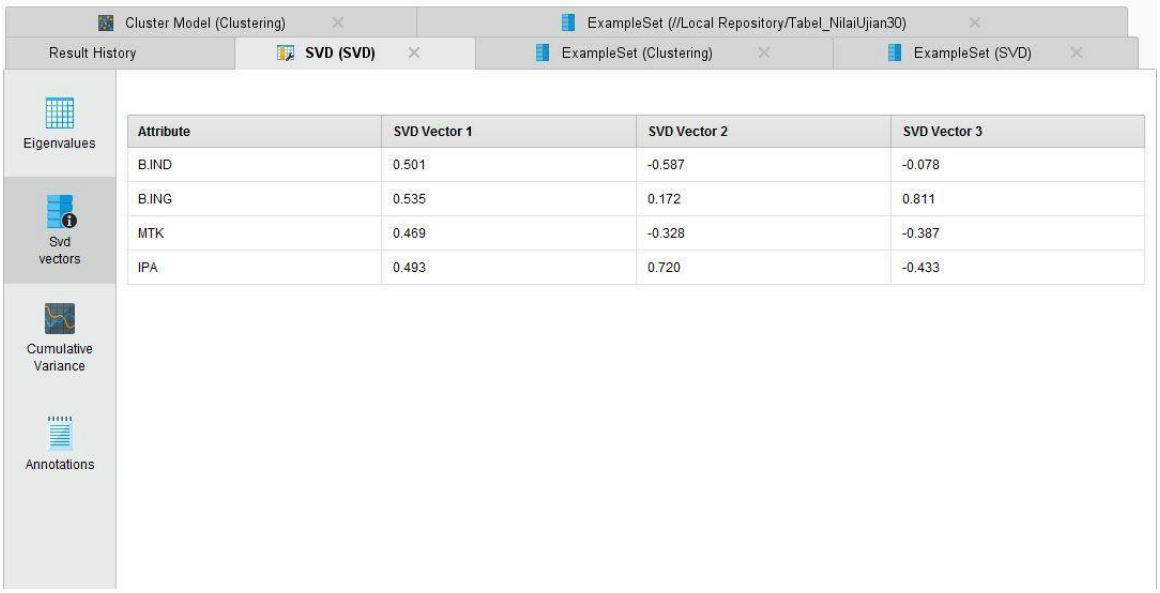

Cluster Model (Clustering)
Description
Folder View
Graph
Cluster Model
Cluster 0: 5 items
Cluster 1: 2 items
Cluster 2: 3 items
Total number of items: 10


ExampleSet (//Local Repository/Data_NilaiUjian)
ExampleSet (//Local Repository/Tabel_NilaiUjian30)
Cluster Model (Clustering)
ExampleSet (//Local Repository/Tabel_NilaiUjian)
Description
Folder View
Graph
Centroid Table
Plot
Zoom
Tree
Node Labels
Edge Labels
root set
0
1
2

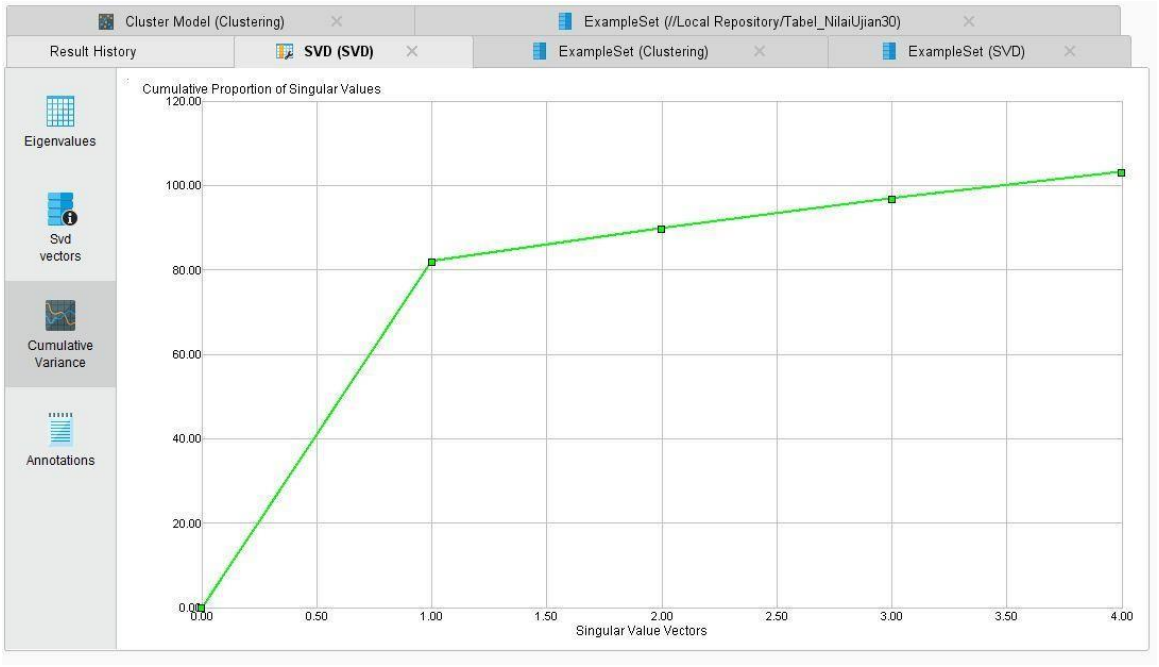
Tugas

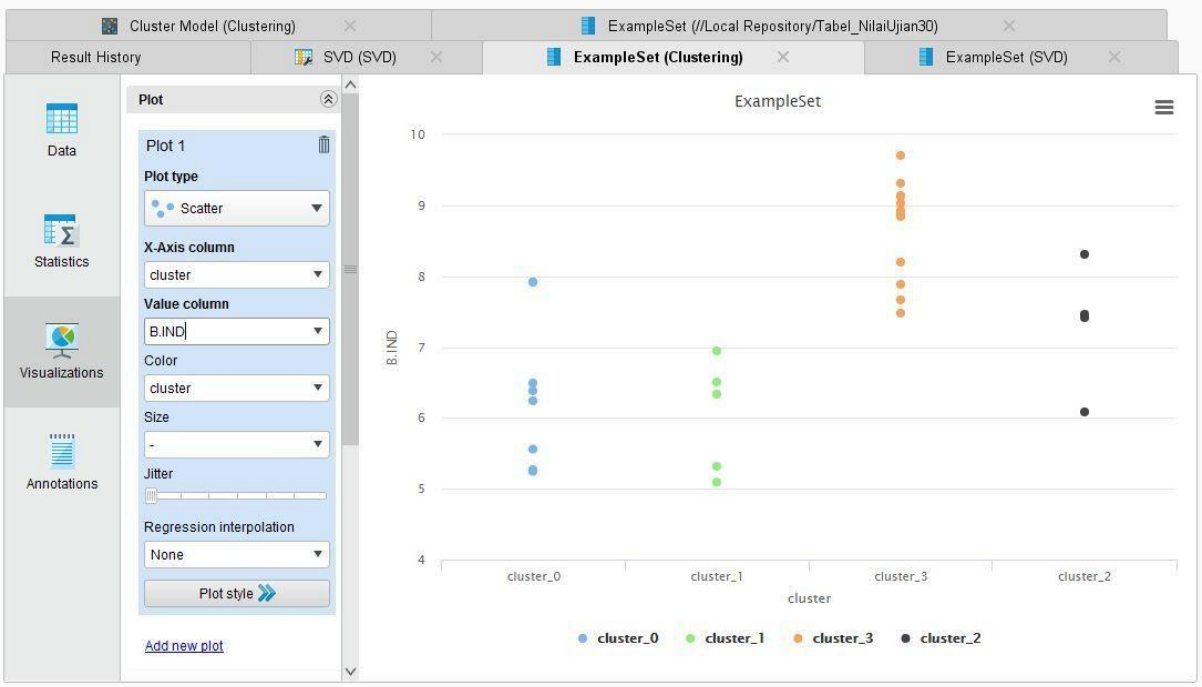


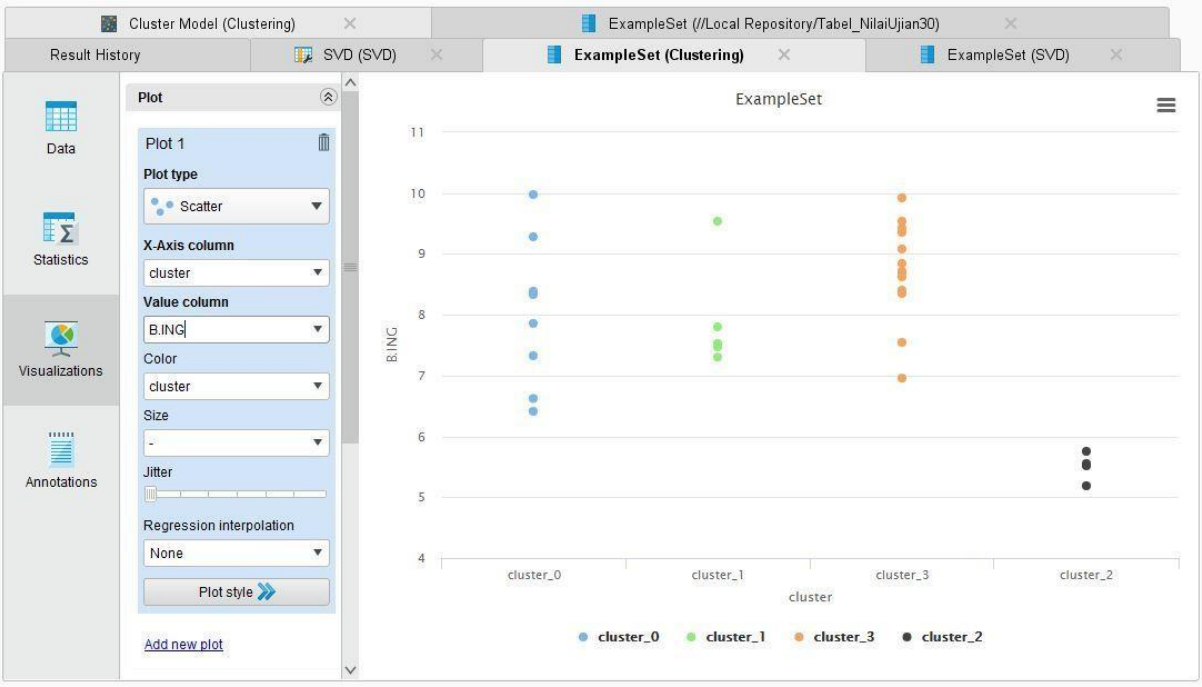
Component	Singular Value	Proportion of Singular Values	Cumulative Singular Values	Cumulative Proportion of Sin...
SVD 1	82.025	0.795	82.025	0.795
SVD 2	7.850	0.076	89.875	0.871
SVD 3	7.107	0.069	96.982	0.940
SVD 4	6.224	0.060	103.206	1.000

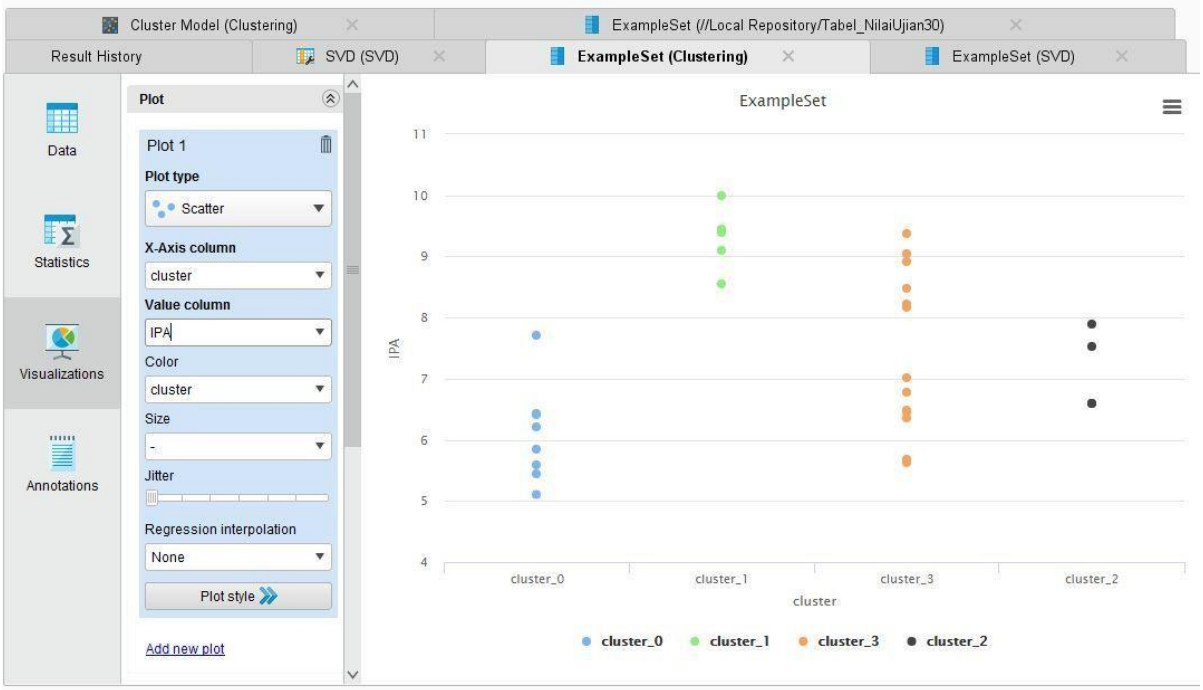


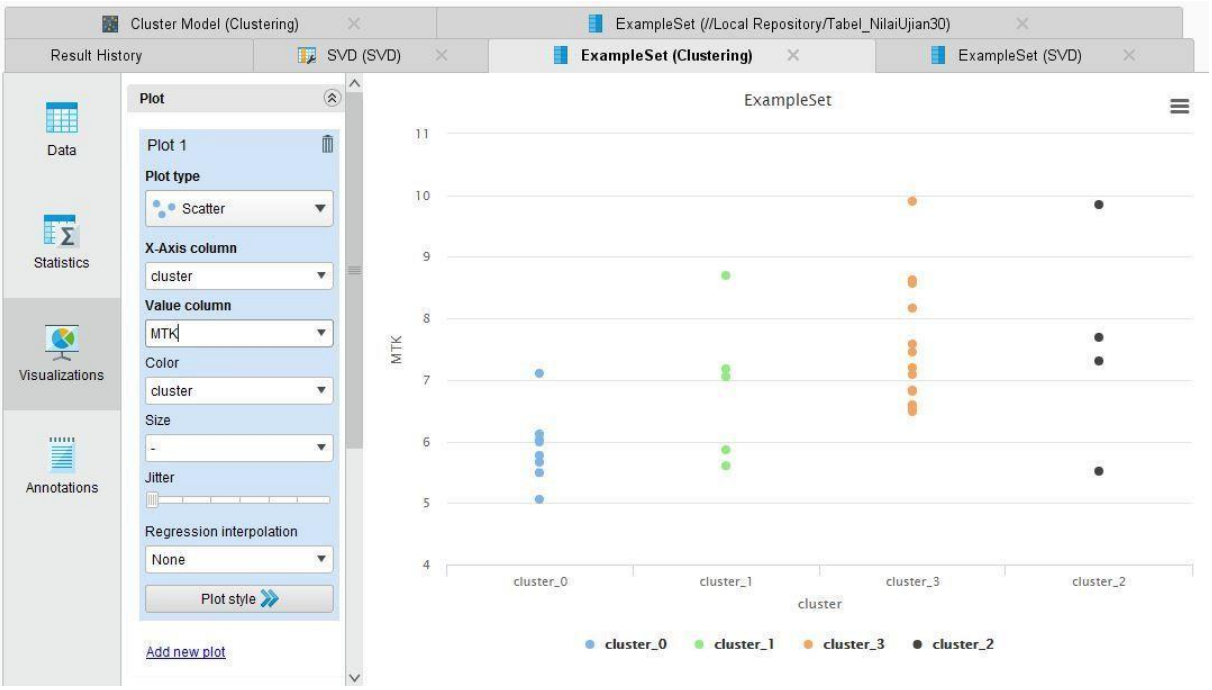
Attribute	SVD Vector 1	SVD Vector 2	SVD Vector 3
B.IND	0.501	-0.587	-0.078
B.ING	0.535	0.172	0.811
MTK	0.469	-0.328	-0.387
IPA	0.493	0.720	-0.433

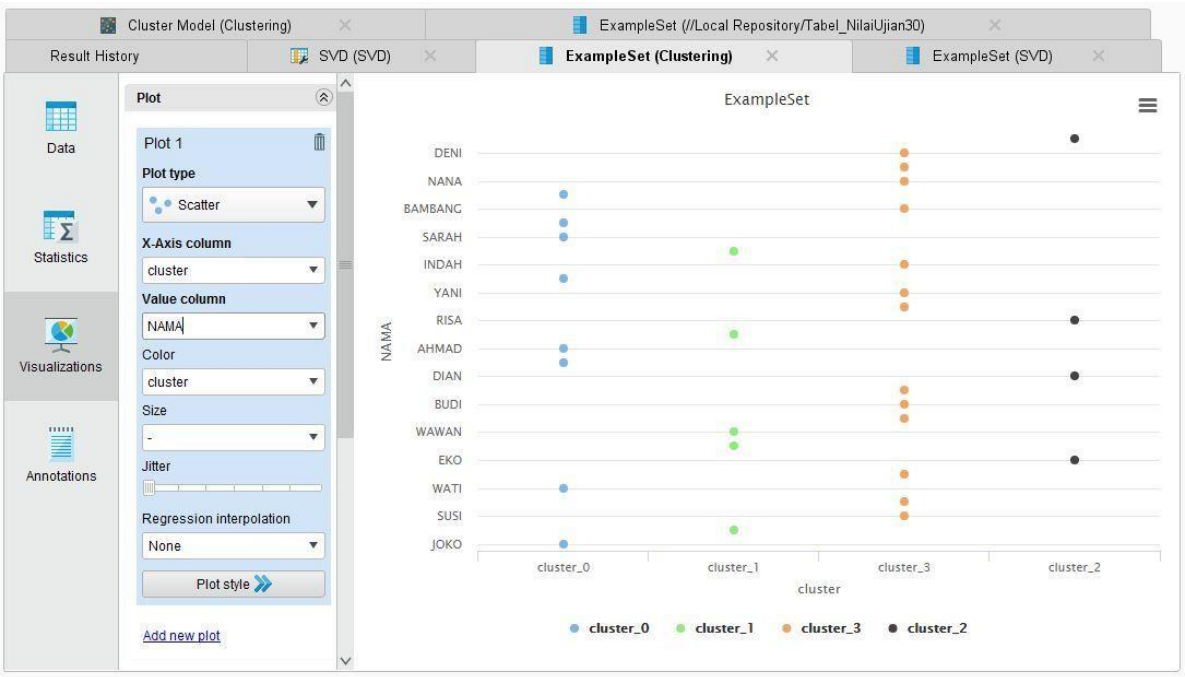

Cluster Model (Clustering)
ExampleSet (//Local Repository/Tabel_NilaiUjian30)
Result History
SVD (SVD)
ExampleSet (Clustering)
ExampleSet (SVD)
Eigenvalues
Svd vectors
Cumulative Variance
Annotations
Cumulative Proportion of Singular Values
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
Singular Value Vectors


Cluster Model (Clustering)
ExampleSet (//Local Repository/Tabel_NilaiUjian30)
Result History
SVD (SVD)
ExampleSet (Clustering)
ExampleSet (SVD)
Data
Statistics
Visualizations
Annotations
Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
B.IND
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
Add new plot
ExampleSet
B.IND
cluster
cluster_0
cluster_1
cluster_3
cluster_2


Cluster Model (Clustering)
ExampleSet (//Local Repository/Tabel_NilaiUjian30)
Result History
SVD (SVD)
ExampleSet (Clustering)
ExampleSet (SVD)
Data
Statistics
Visualizations
Annotations
Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
B.ING
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
Add new plot
ExampleSet
B.ING
cluster
cluster_0
cluster_1
cluster_3
cluster_2

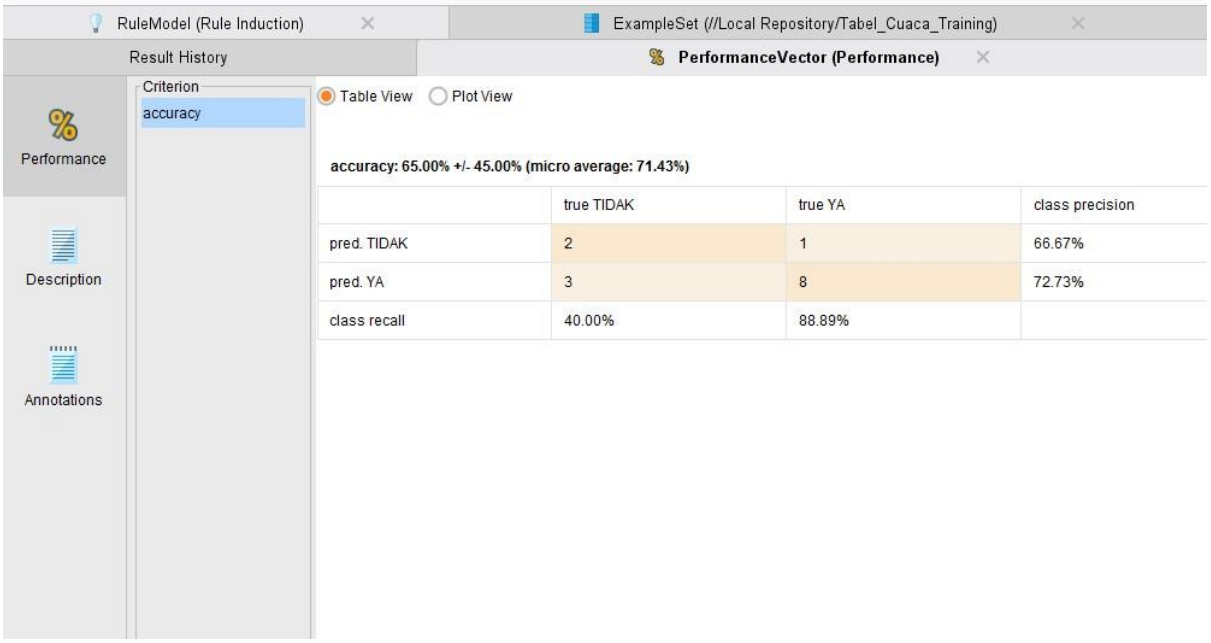

Cluster Model (Clustering)
ExampleSet (//Local Repository/Tabel_NilaiUjian30)
Result History
SVD (SVD)
ExampleSet (Clustering)
ExampleSet (SVD)
Data
Statistics
Visualizations
Annotations
Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
IPA
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
Add new plot
ExampleSet
IPA
11
10
9
8
7
6
5
4
cluster_0
cluster_1
cluster_3
cluster_2
cluster
cluster_0
cluster_1
cluster_3
cluster_2

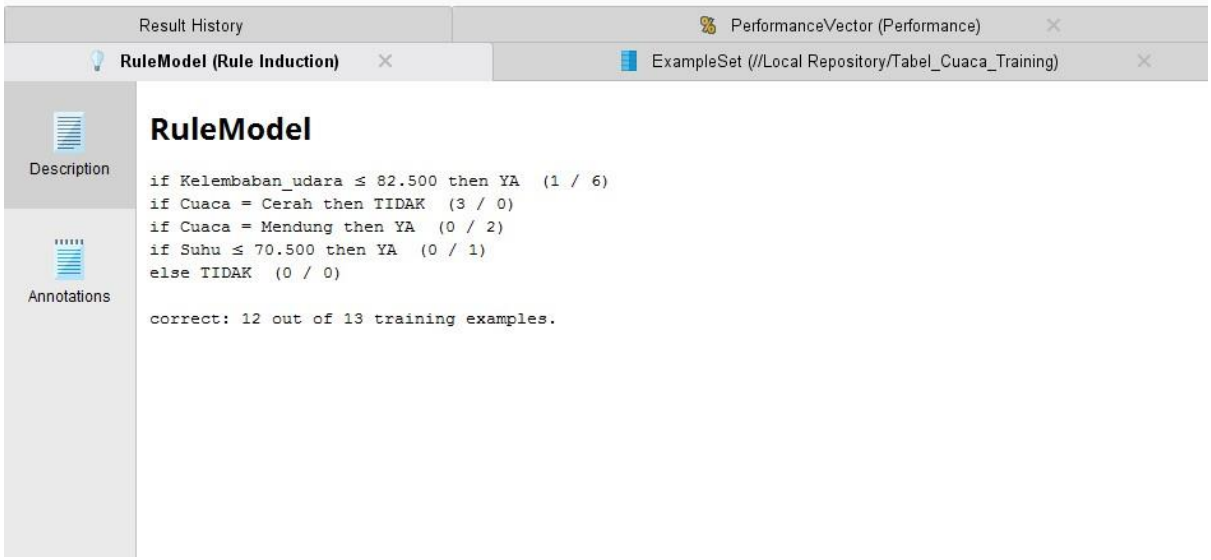

Cluster Model (Clustering)
ExampleSet (//Local Repository/Tabel_NilaiUjian30)
Result History
SVD (SVD)
ExampleSet (Clustering)
ExampleSet (SVD)
Data
Statistics
Visualizations
Annotations
Plot
Plot 1
Plot type
Scatter
X-Axis column
cluster
Value column
MTK
Color
cluster
Size
-
Jitter
Regression interpolation
None
Plot style
Add new plot
ExampleSet
MTK
11
10
9
8
7
6
5
4
cluster_0
cluster_1
cluster_3
cluster_2
cluster
cluster_0
cluster_1
cluster_3
cluster_2

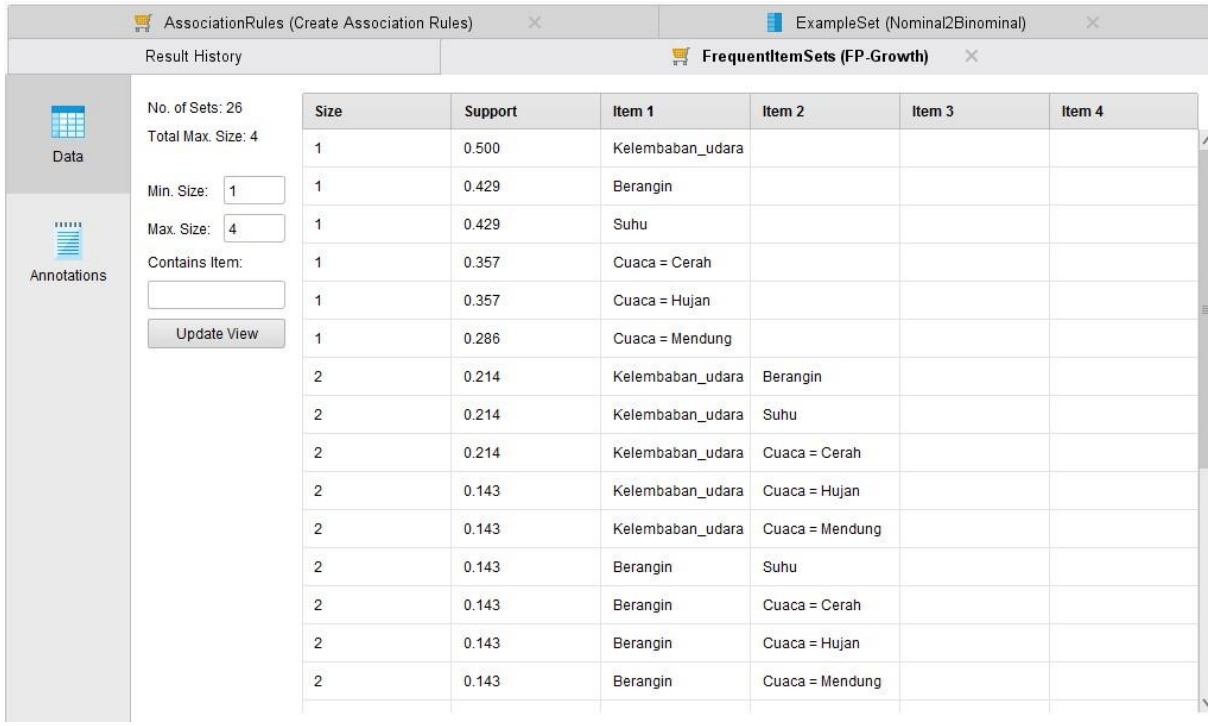


Modul 11

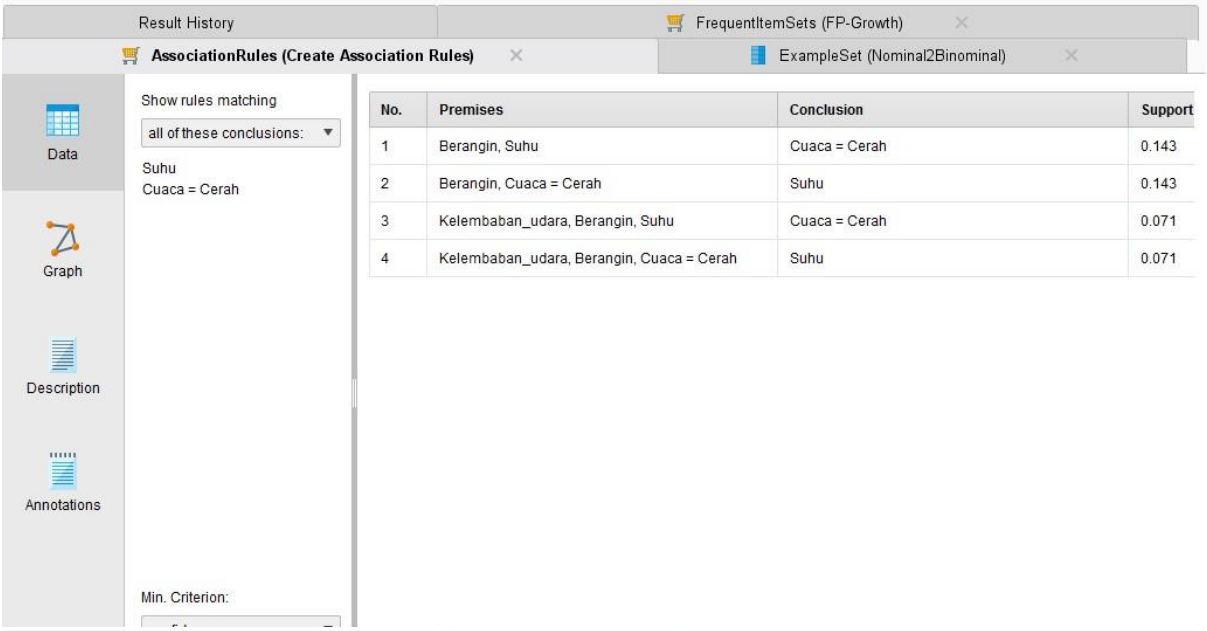
Kegiatan



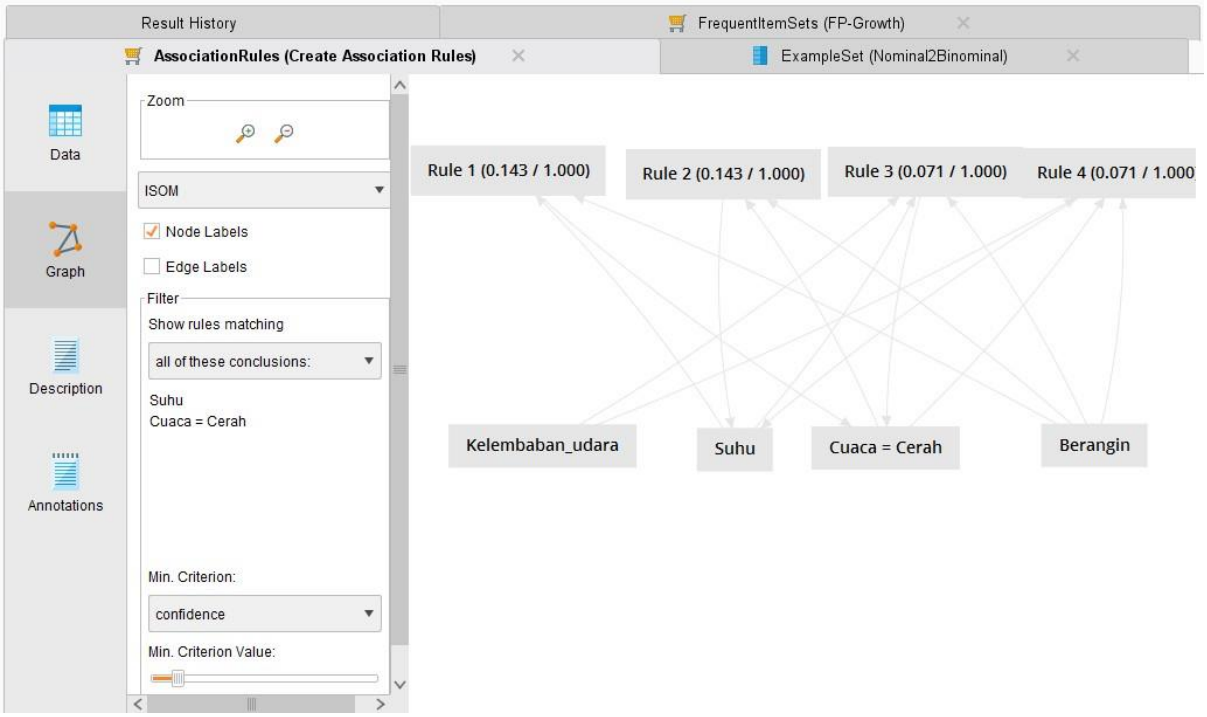


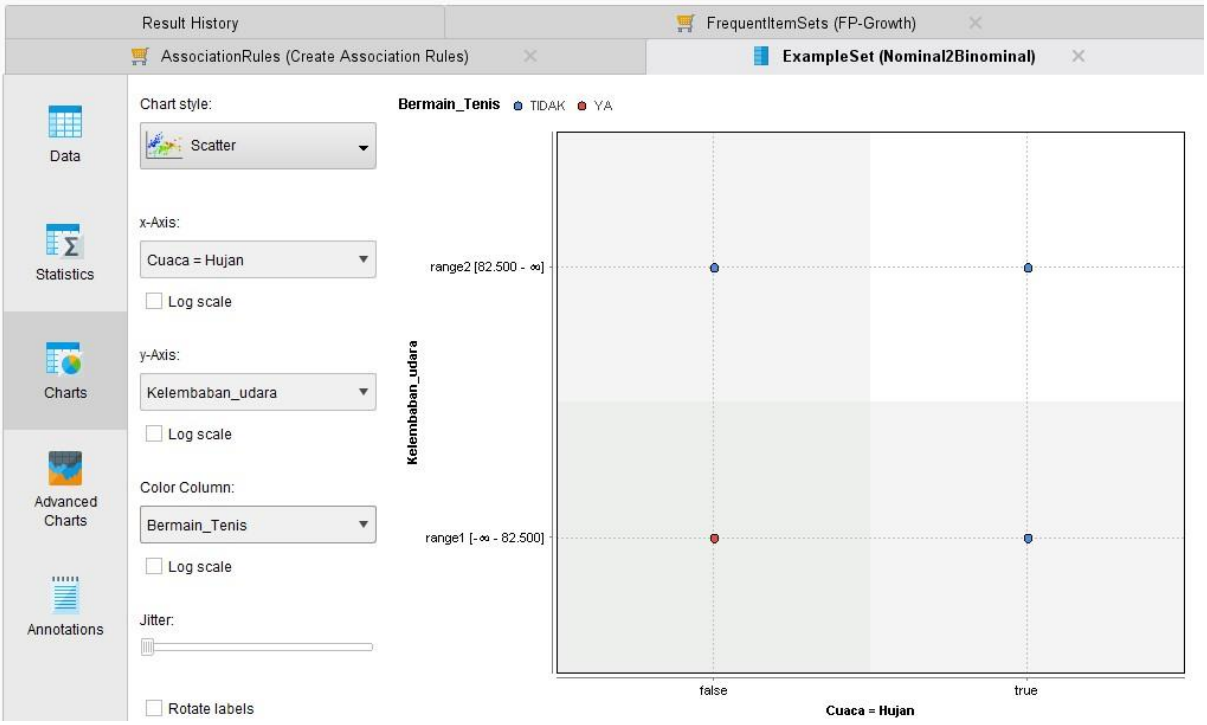


Size	Support	Item 1	Item 2	Item 3	Item 4
1	0.500	Kelembaban_udara			
1	0.429	Berangin			
1	0.429	Suhu			
1	0.357	Cuaca = Cerah			
1	0.357	Cuaca = Hujan			
1	0.286	Cuaca = Mendung			
2	0.214	Kelembaban_udara	Berangin		
2	0.214	Kelembaban_udara	Suhu		
2	0.214	Kelembaban_udara	Cuaca = Cerah		
2	0.143	Kelembaban_udara	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		



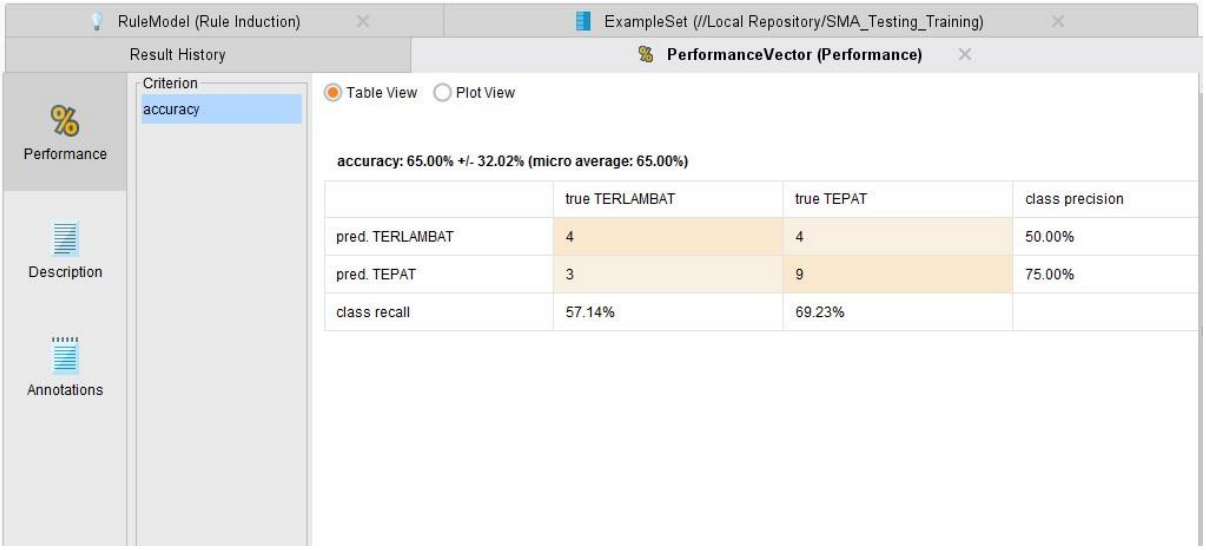
No.	Premises	Conclusion	Support
1	Berangin, Suhu	Cuaca = Cerah	0.143
2	Berangin, Cuaca = Cerah	Suhu	0.143
3	Kelembaban_udara, Berangin, Suhu	Cuaca = Cerah	0.071
4	Kelembaban_udara, Berangin, Cuaca = Cerah	Suhu	0.071

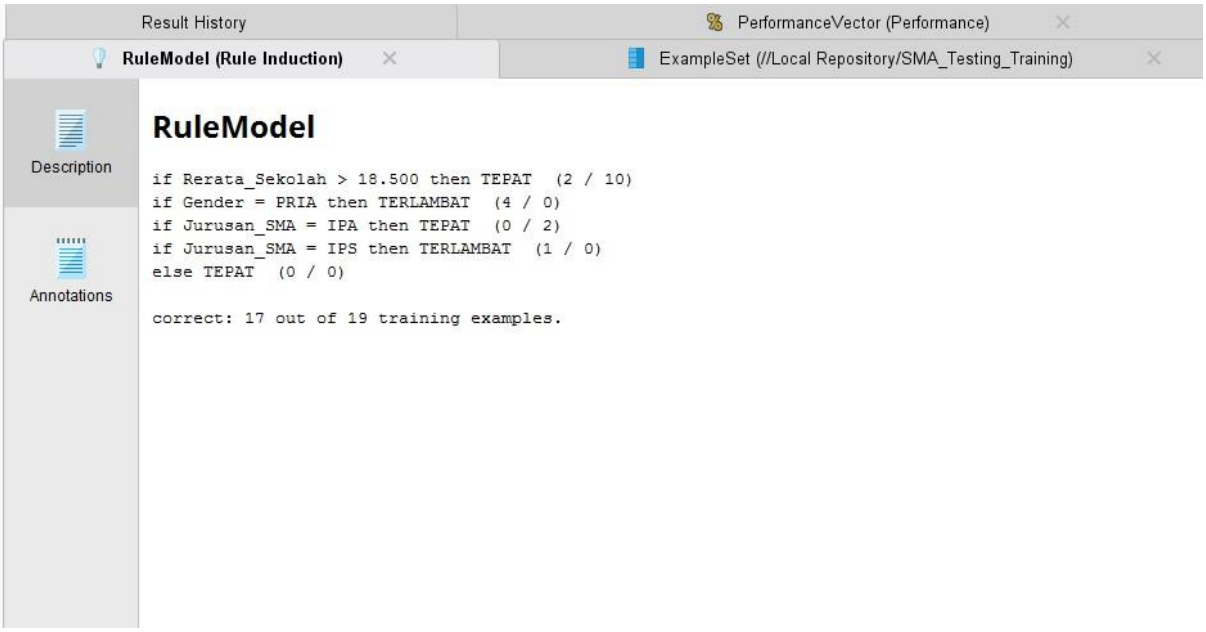




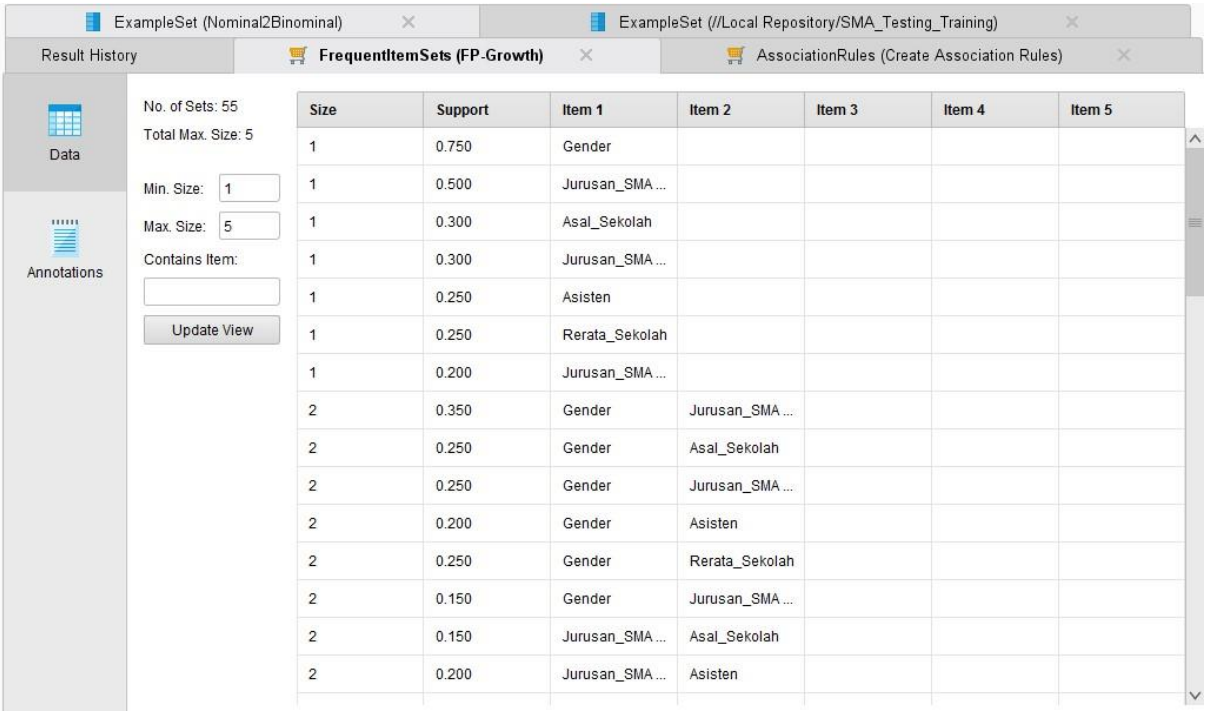
Tugas

Nomer 1

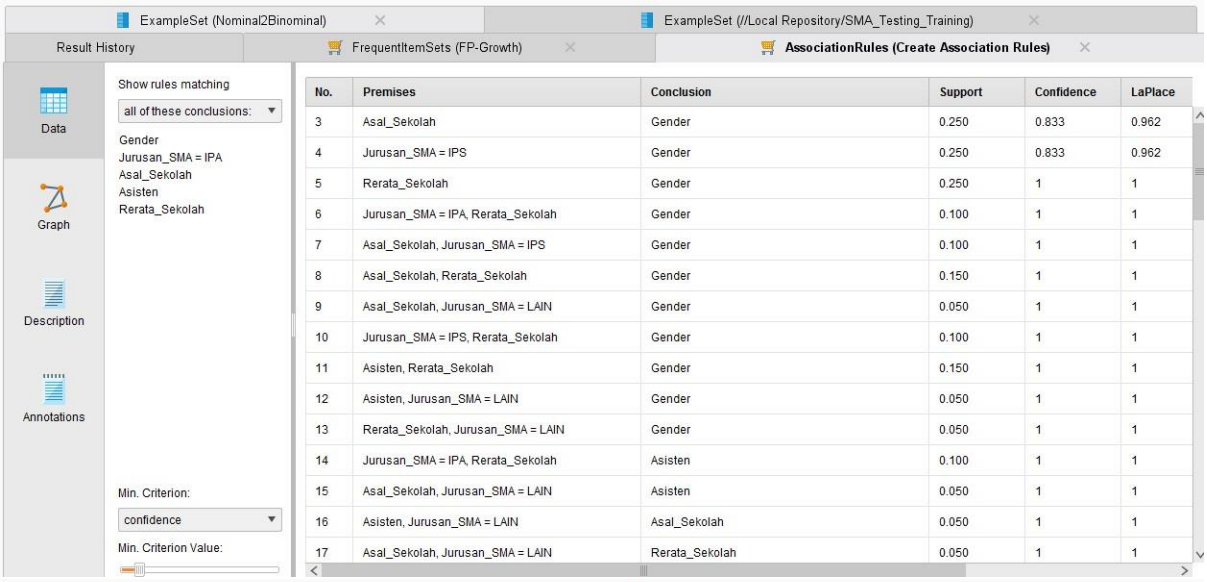

RuleModel (Rule Induction)
ExampleSet (//Local Repository/SMA_Testing_Training)
Result History
PerformanceVector (Performance)
Performance
Description
Annotations
Criterion
accuracy
Table View
Plot View
accuracy: 65.00% +/- 32.02% (micro average: 65.00%)
true TERLAMBAT
true TEPAT
class precision
pred. TERLAMBAT
4
4
50.00%
pred. TEPAT
3
9
75.00%
class recall
57.14%
69.23%


Result History
PerformanceVector (Performance)
RuleModel (Rule Induction)
ExampleSet (//Local Repository/SMA_Testing_Training)
Description
Annotations
RuleModel
if Rerata_Sekolah > 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.

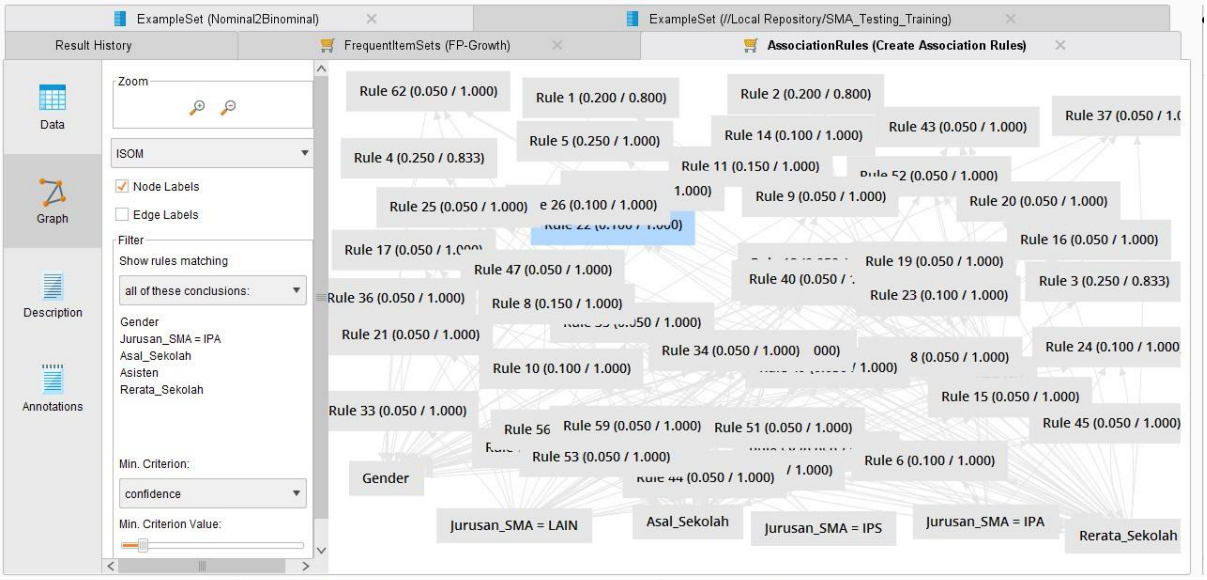
Nomer 2

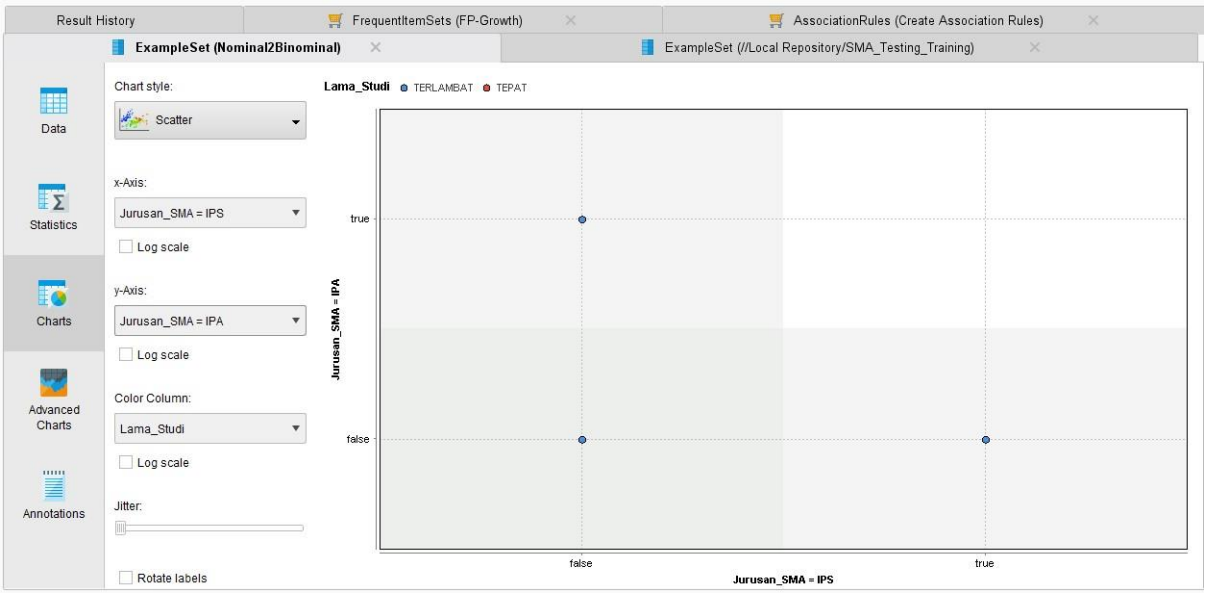


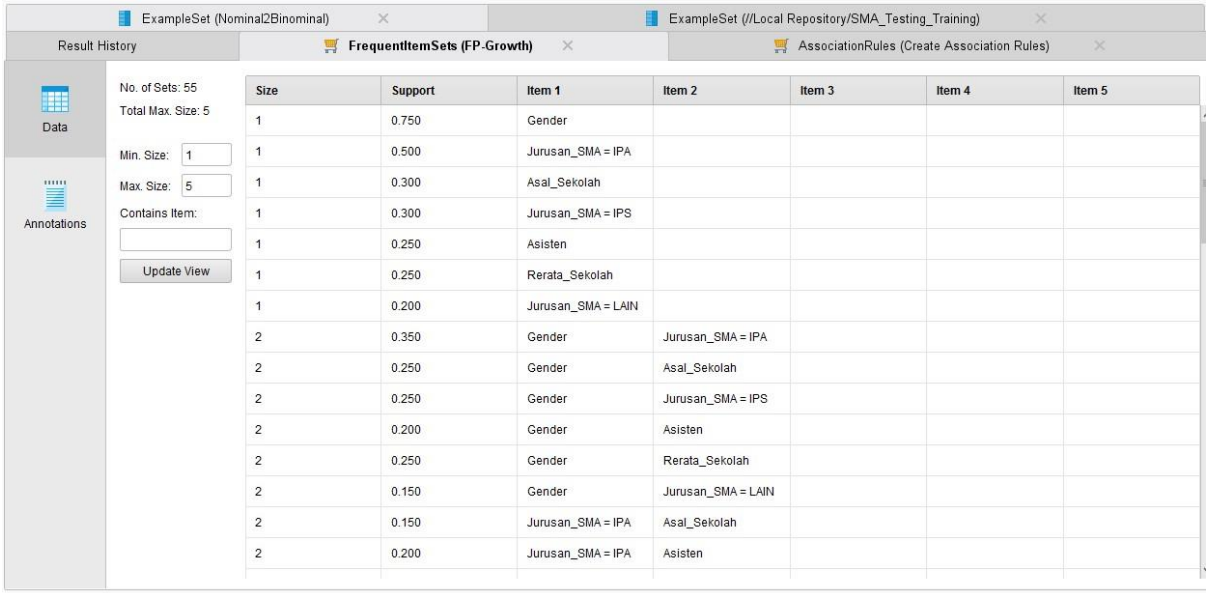
Size	Support	Item 1	Item 2	Item 3	Item 4	Item 5
1	0.750	Gender				
1	0.500	Jurusan_SMA ...				
1	0.300	Asal_Sekolah				
1	0.300	Jurusan_SMA ...				
1	0.250	Asisten				
1	0.250	Rerata_Sekolah				
1	0.200	Jurusan_SMA ...				
2	0.350	Gender	Jurusan_SMA ...			
2	0.250	Gender	Asal_Sekolah			
2	0.250	Gender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



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

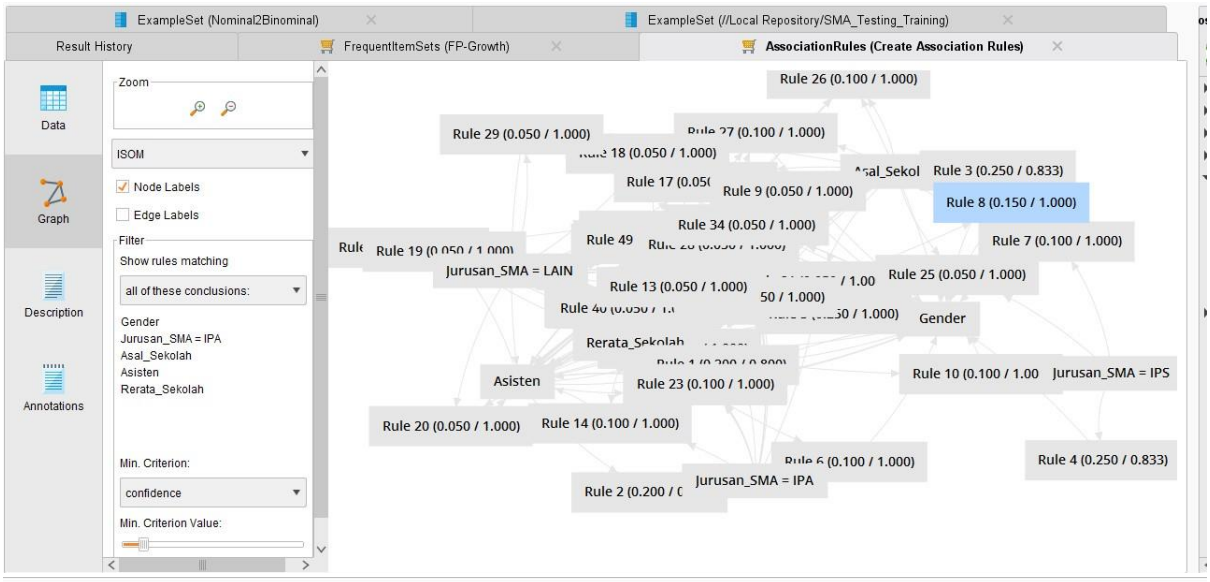


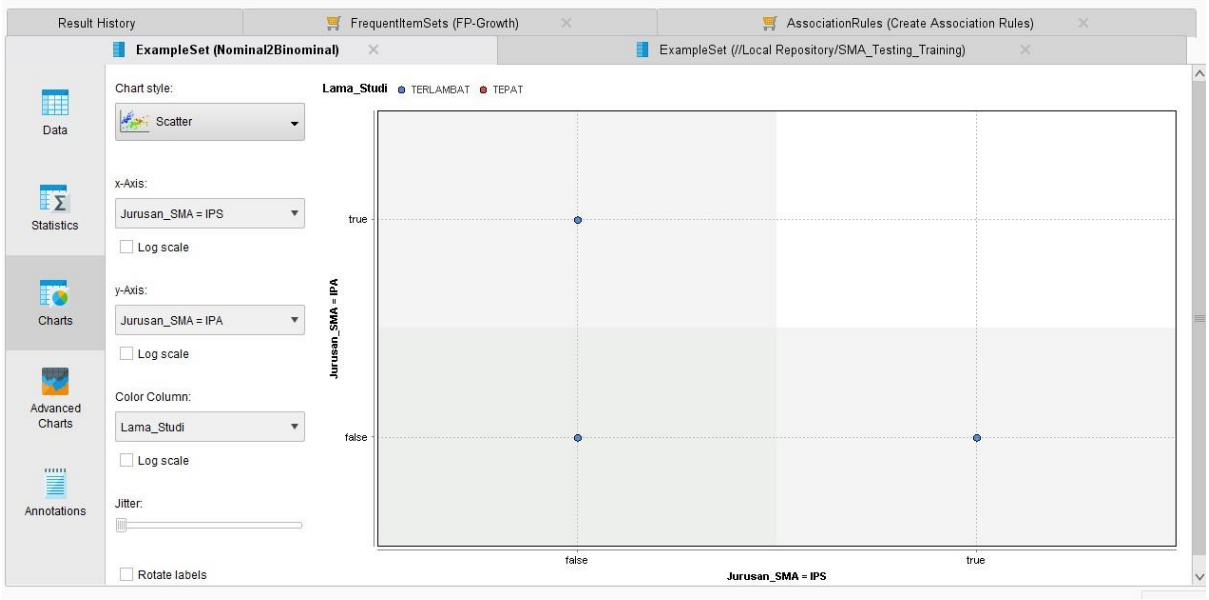




Size	Support	Item 1	Item 2	Item 3	Item 4	Item 5
1	0.750	Gender				
1	0.500	Jurusan_SMA = IPA				
1	0.300	Asal_Sekolah				
1	0.300	Jurusan_SMA = IPS				
1	0.250	Asisten				
1	0.250	Rerata_Sekolah				
1	0.200	Jurusan_SMA = LAIN				
2	0.350	Gender	Jurusan_SMA = IPA			
2	0.250	Gender	Asal_Sekolah			
2	0.250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

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





Modul 12

Kegiatan

	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	986
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

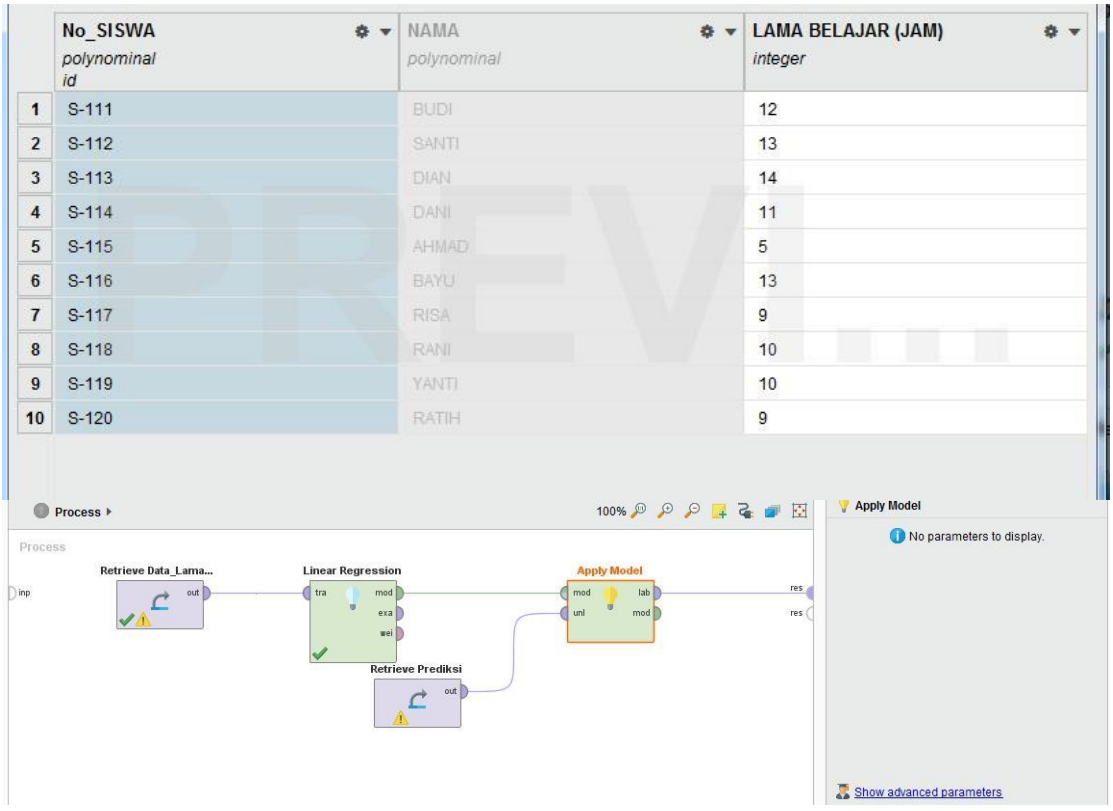
	No_SISWA *polynominal* *id*	NAMA *polynominal*	LAMA BELAJAR (JAM) *integer*	NILAI *integer* *label*
1	S-101	JOKO	15	783
2	s-102	AGUS	18	877
3	S-103	SUSI	7	505
4	S-104	DYAH	9	860
5	S-105	WATI	15	968
6	S-106	IKA	17	793
7	S-107	EKO	10	752
8	S-108	YANTO	5	571
9	S-109	WAWAN	8	667
10	S-110	MAHMUD	15	723

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

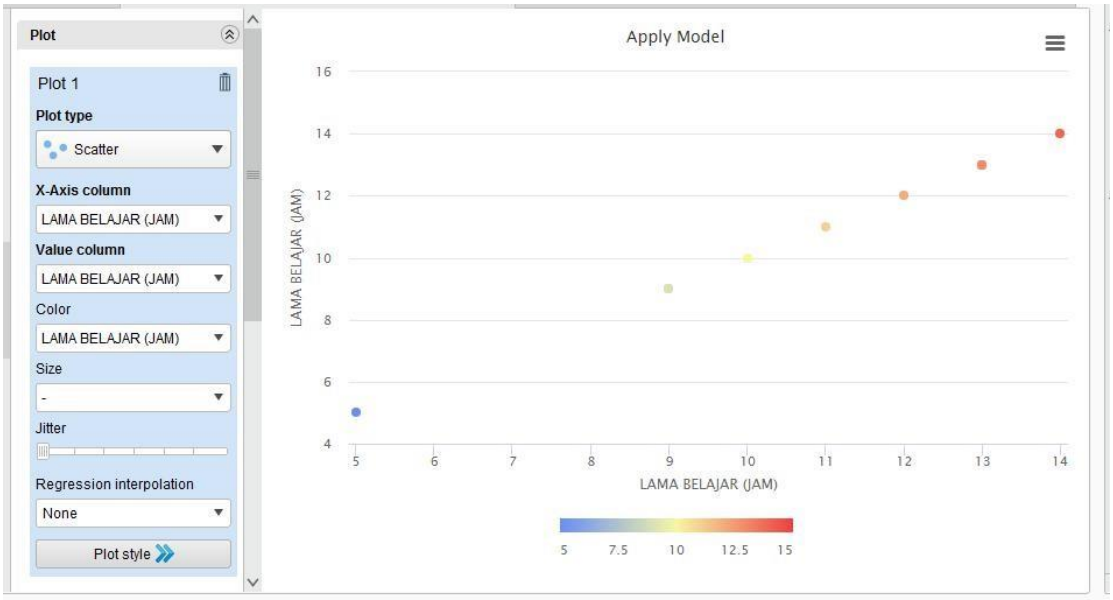
LinearRegression

```
  21.608 * LAMA BELAJAR (JAM)
+ 492.769
```

	A	B	C	D
1	No_SISWA	NAMA	AMA BELAJAR (JAM)	
2	S-111	BUDI	12	
3	S-112	SANTI	13	
4	S-113	DIAN	14	
5	S-114	DANI	11	
6	S-115	AHMAD	5	
7	S-116	BAYU	13	
8	S-117	RISA	9	
9	S-118	RANI	10	
10	S-119	YANTI	10	
11	S-120	RATIH	9	
12				



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



E3 | =(21.608*C3)+492.769

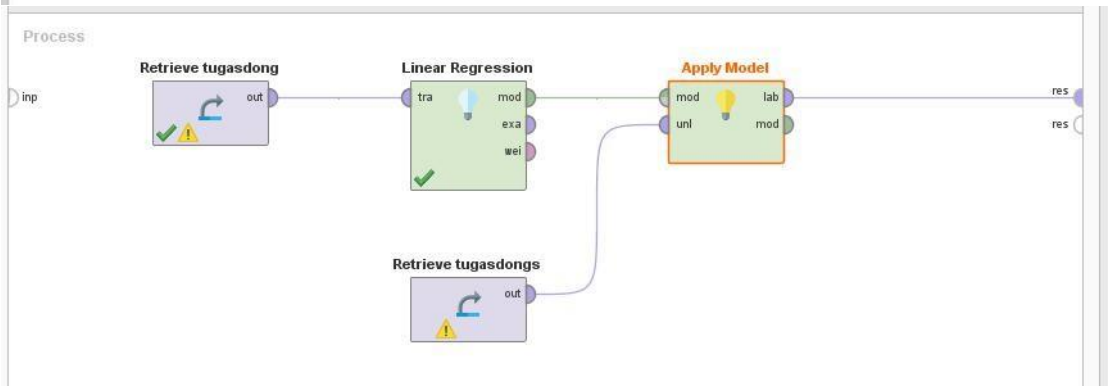
	A	B	C	D	E
1	No_SISWA	NAMA	LAMA BELAJAR (JAM)	Prediksi Nalai	Prediksi Nilai
2				Tabel	Model Regresi
3	S-111	BUDI	12	752.0607648	752.065
4	S-112	SANTI	13	773.6684128	773.673
5	S-113	DIAN	14	795.2760608	795.281
6	S-114	DANI	11	730.4531168	730.457
7	S-115	AHMAD	5	600.8072289	600.809
8	S-116	BAYU	13	773.6684128	773.673
9	S-117	RISA	9	687.2378209	687.241
10	S-118	RANI	10	708.8454688	708.849
11	S-119	YANTI	10	708.8454688	708.849
12	S-120	RATIH	9	687.2378209	687.241
13					
14					

Tugas

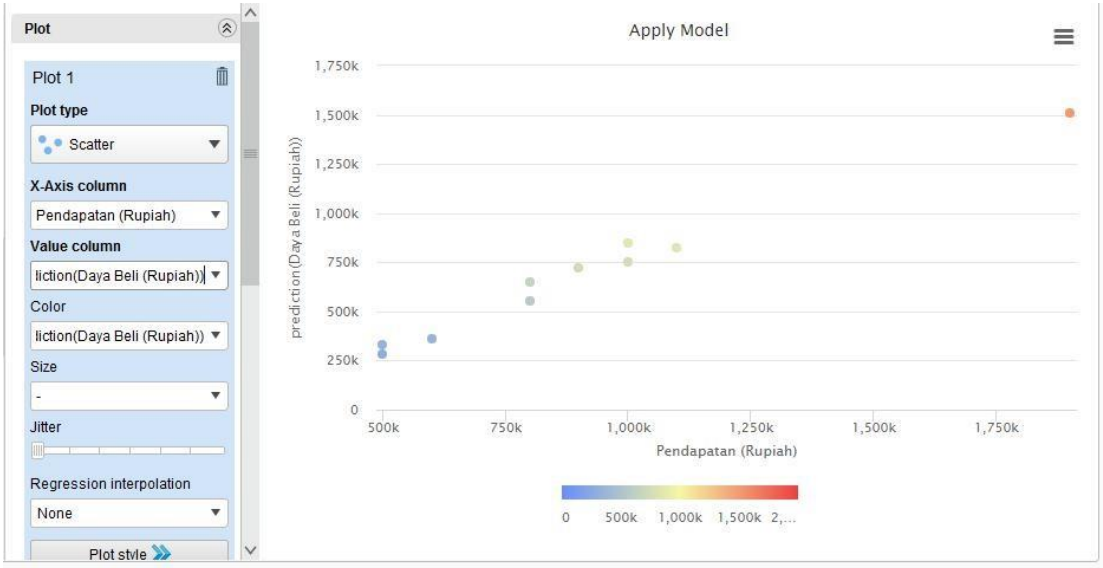
Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
Pendapatan (R...	0.739	0.021	0.924	0.857	35.037	0.000	****
Jumlah Anggot...	47807.624	7833.319	0.161	0.857	6.103	0.000	****
(Intercept)	-180222.487	36497.284	?	?	-4.938	0.000	****

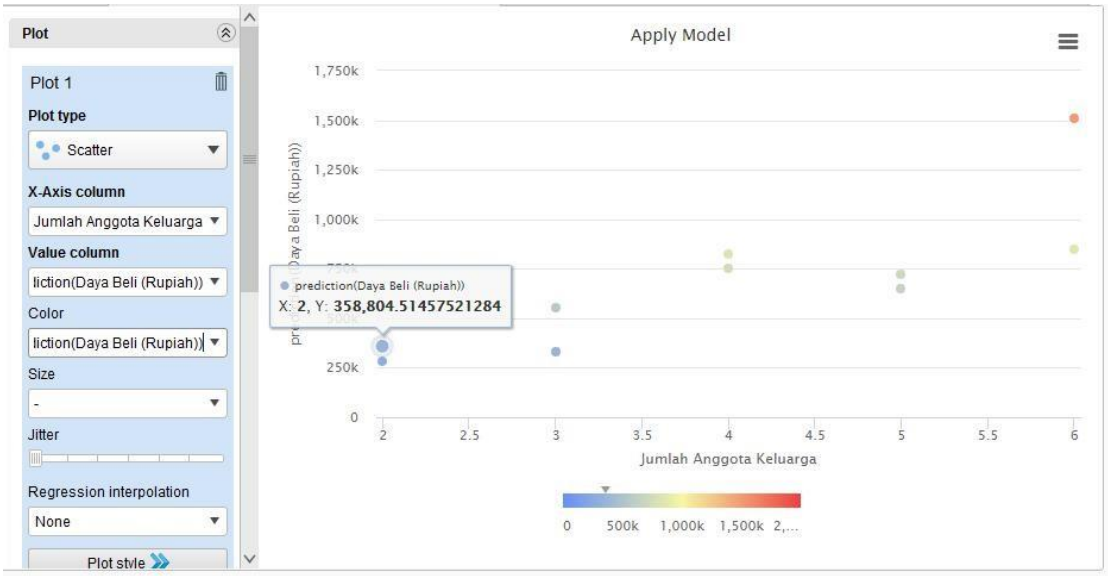
LinearRegression

```
  0.739 * Pendapatan (Rupiah)
+ 47807.624 * Jumlah Anggota Keluarga
- 180222.487
```



Row No.	No Respond...	prediction(D...	Pendapatan ...	Jumlah Ang...
1	1	723933.263	900000	5
2	2	554416.056	800000	3
atistics for the data	3	284902.556	500000	2
4	4	1510760.476	1900000	6
5	5	358804.515	600000	2
6	6	650031.304	800000	5
7	7	845642.845	1000000	6
8	8	823929.557	1100000	4
9	9	750027.598	1000000	4
10	10	332710.179	500000	3





	B	C	D	E
1	Pendapatan (Rupiah)	Jumlah Anggota Keluarga	Prediksi	
2			Tabel	Y
3	900000	5	723933.2625	723915.633
4	800000	3	554416.0562	554400.385
5	500000	2	284902.5556	284892.761
6	1900000	6	1510760.476	1510723.257
7	600000	2	358804.5146	358792.761
8	800000	5	650031.3035	650015.633
9	1000000	6	845642.8452	845623.257
10	1100000	4	823929.5569	823908.009
11	1000000	4	750027.5979	750008.009
12	500000	3	332710.1792	332700.385
13				