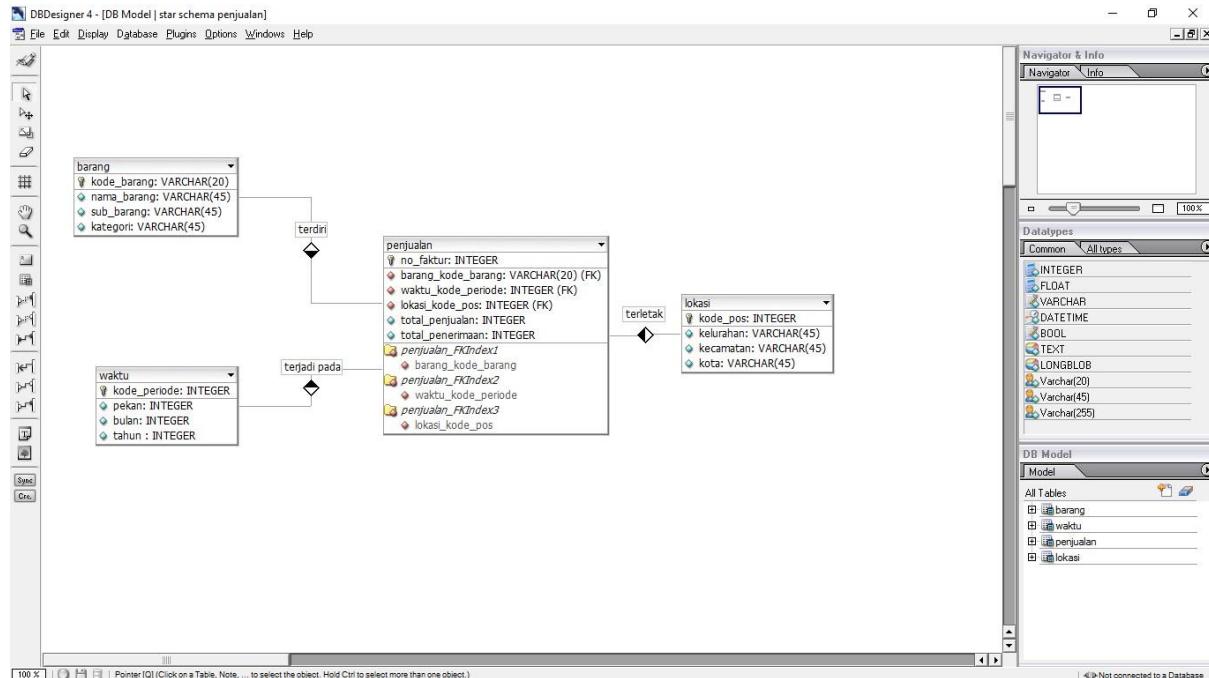


Nama : Fitri Cahya Kusumawati
 NIM : L200170110
 Kelas : D

LAPORAN PRAKTIKUM MODUL 1

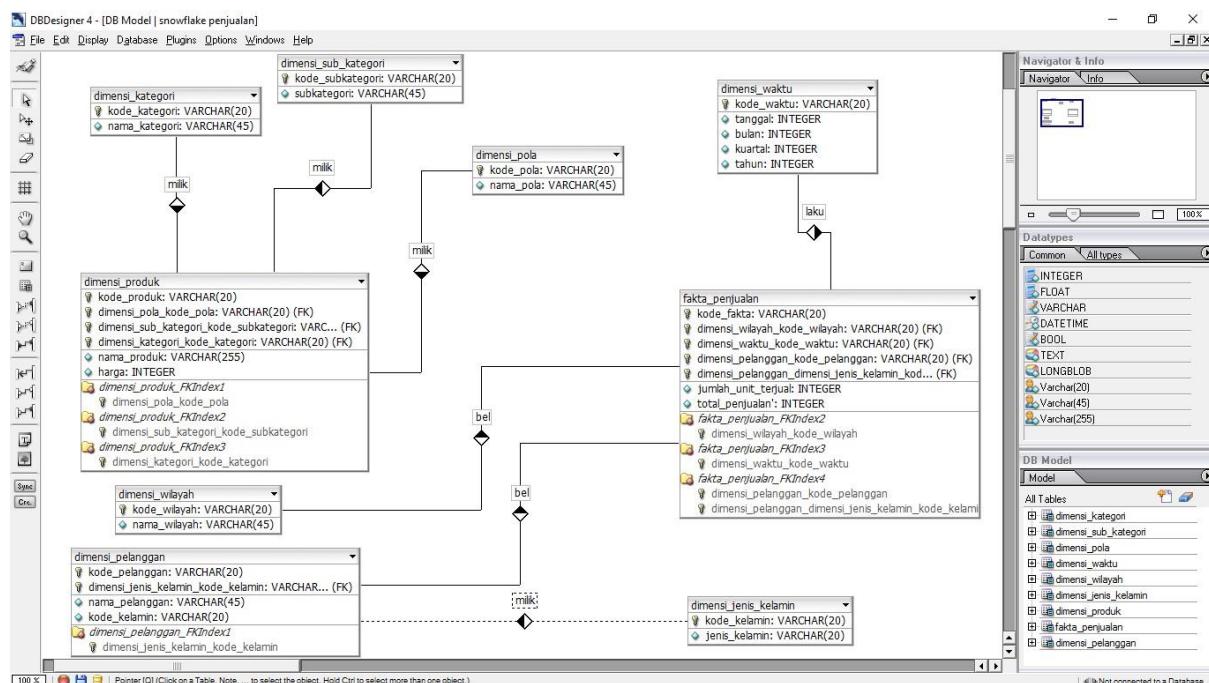
KEGIATAN

Menggambar Star Schema dengan menggunakan DB Designer



TUGAS

Merancang diagram Snowflake Schema berdasarkan gambar menggunakan DB Designer



MODUL 5

KEGIATAN

Kegiatan 1

1. Membuat Pivot Baru dengan nama file fakta_penjualan.xls

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	bulan	kuartal	tahun	nama_produk	nama_kategori	nama_subkategori	nama_pola	nama_pelanggan	enis_kelami	nama_villayah	jumlah	harga	
2	12	4	2011	Jarik Standar Print Sogan	Standar	Jarik	Print	Bapak Ketut	PRIA	Jawa Timur	2	225000	
3	1	1	2012	Kaos Batik Cap Lukis	Batik	Kaos	Cap	Ibu Harini	WANITA		14	30000	
4	4	2	2012	Jarik Standar Tulis Sarimbit	Standar	Jarik	Tulis	Ibu Harini	WANITA	Jawa Timur	4	40000	
5	4	2	2011	Hem Katun Print Kaung	Katun	Hem	Print	Ibu Harini	WANITA	Jawa Timur	3	70000	
6	9	3	2012	Batik Standar Cap Tumpal	Standar	Batik	Cap	Bapak Heru	PRIA	Jawa Timur	1	150000	
7	5	2	2012	Hem Katun Print Kelenggan	Katun	Hem	Print	Bapak Totok	PRIA	Jawa Timur	3	299000	
8	12	4	2011	Bolero Standar Cap Sido Mukti	Standar	Bolero	Cap	Ibu Hatamah	WANITA	Jawa Timur	1	225000	
9	10	4	2011	Sarimbit Standar Print Lukis	Standar	Sarimbit	Print	Ibu Hatamah	WANITA	Jawa Timur	1	150000	
10	1	1	2011	Kaos Katun Print Bola	Katun	Kaos	Print	Bapak Imron	PRIA	Jawa Barat	1	60000	
11	2	1	2012	Celana Standar Cap Warna	Standar	Celana	Cap	Ibu Hadi Sukarni	WANITA	Jawa Barat	17	55000	
12	3	1	2010	Celana Standar Cap Warna	Standar	Celana	Print	Ibu Hadi Sukarni	WANITA	Jawa Barat	17	55000	
13	3	1	2011	Bahan Standar Cap Lasem	Standar	Bahan	Cap	Ibu Siti Arya	WANITA	Jawa Barat	8	120000	
14	12	4	2012	Rok Batik Print Kombinasi	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 Tumpal	Standar	Hem	Cap	Ibu Alni Kasmajl	WANITA	Jawa Tengah	1	100000	
17	6	2	2012	Bahan Lawasan Tulis Toilet	Lawasan	Bahan	Tulis	Ibu Niken	WANITA	Jawa Tengah	1	130000	
18	8	3	2011	Hem Standar Tulis Madura	Standar	Hem	Tulis	Ibu Atik	WANITA	Jawa Tengah	5	550000	
19	4	2	2012	Bahan Standar Cap Garis	Standar	Bahan	Cap	Ibu Tyas	WANITA	Jawa Tengah	7	135000	
20	6	2	2010	Bahan Beledru Cap Mahkota	Beludru	Bahan	Cap	Ibu Tyas	WANITA	Jawa Tengah	1	500000	
21	11	4	2010	Hem Sutra Print Rama	Sutra	Hem	Print	Ibu Tyas	WANITA	Jawa Tengah	5	100000	
22													
23													
24													
25													

2. Tekan tombol **ctrl+shift+***
3. Lalu klik tab insert pada ribbon, pilih menu pivotTable| InsertPivotTable
4. Pilih new Worksheet klik tombol OK

Fakta_Penjualan.xlsx - Excel (Product Activation Failed)

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

PivotTable Recommended PivotTables Tables Pictures Online Illustrations Add-ins Recommended Charts Charts PivotChart 3D Tours Line Column Win/Loss Slicer Timeline Hyperlink Header & Footer Text Box Filters Links Text Symbols

A1 bulan

bulan	kuartal	tahun	nama_produk	nama_kategori
2	12	2011	Jarik Standar Print Sogan	Standar
3	1	2012	Kaos Batik Cap Lukis	Batik
4	2	2012	Jarik Standar Tulis Sarimbit	Standar
5	4	2011	Hem Katun Print Kaung	Katun
6	9	2012	Batik Standar Cap Kumpal	Standar
7	5	2012	Hem Katun Print Kelengan	Katun
8	12	4	Bolero Standar Cap Sido Mukti	Standar
9	10	4	Sarimbit Standar Print Lukis	Standar
10	1	2011	Kaos Katun Print Bola	Katun
11	2	2012	Celana Standar Cap Warna	Standar
12	3	2010	Celana Standar Cap Warna	Standar
13	3	2011	Bahan Standar Cap Lasem	Standar
14	12	4	Rok Batik Print Kombinasi	Batik
15	1	2012	Jam Standar Print Lukis	Standar
16	9	3	Hem Standar Cap Tumpal	Standar
17	6	2012	Bahan Lawasan Tulis Tollet	Lawasan
18	8	3	Hem Standar Tulis Madura	Standar
19	4	2	Bahan Standar Cap Garis	Standar
20	6	2010	Bahan Beleddro Cap Mahkota	Beludru
21	11	4	Hem Sutra Print Rama	Sutra

Create PivotTable ? X

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...

Use this workbook's Data Model
Connection name:

New Worksheet
Location: []

Existing Worksheet
Location: []

Choose whether you want to analyze multiple tables

Add this data to the Data Model

OK Cancel

nggan	enis_kelamii	nama_wilayah	jumlah	harga		
etut	PRIA	Bali	2	225000		
ini	WANITA	Jawa Timur	14	30000		
ini	WANITA	Jawa Timur	4	40000		
ini	WANITA	Jawa Timur	3	70000		
eru	PRIA	Jawa Timur	1	150000		
rtok	PRIA	Jawa Timur	3	299000		
mah	WANITA	Jawa Timur	1	225000		
mah	WANITA	Jawa Timur	1	150000		
iron	PRIA	Jawa Barat	1	60000		
ukarni	WANITA	Jawa Barat	17	55000		
ukarni	WANITA	Jawa Barat	17	55000		
rya	WANITA	Jawa Barat	8	120000		
rya	WANITA	Jawa Barat	1	225000		
rya	WANITA	Jawa Barat	44	80000		
smaji	WANITA	Jawa Tengah	1	100000		
Bahan	Tulis	Ibu Niken	WANITA	Jawa Tengah	1	130000
Hem	Tulis	Ibu Atik	WANITA	Jawa Tengah	5	550000
Bahan	Cap	Ibu Tyas	WANITA	Jawa Tengah	7	135000
Bahan	Cap	Ibu Tyas	WANITA	Jawa Tengah	1	500000
Hem	Print	Ibu Tyas	WANITA	Jawa Tengah	5	100000

Sheet1 Sheet2 Sheet3 Sheet4

Average: 33395,34 Count: 252 Sum: 3339534

Point

100%

5. Setelah di OK

Fakta_Penjualan.xlsx - Excel (Product Activation Failed)

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

PivotTable Name: Active Field: PivotTable Tools

PivotTable1 Options PivotTable PivotTable Active Field

Field Settings Drill Down Drill Up Group Selection Group Ungroup Group Field Insert Slicer Filter Refresh Change Data + OLAP Tools + Relationships Actions Calculations Tools PivotChart Recommended PivotTables Field List Buttons Headers Show

A3 bulan

bulan	kuartal	tahun	nama_produk	nama_kategori
2	12	2011	Jarik Standar Print Sogan	Standar
3	1	2012	Kaos Batik Cap Lukis	Batik
4	2	2012	Jarik Standar Tulis Sarimbit	Standar
5	4	2011	Hem Katun Print Kaung	Katun
6	9	2012	Batik Standar Cap Kumpal	Standar
7	5	2012	Hem Katun Print Kelengan	Katun
8	12	4	Bolero Standar Cap Sido Mukti	Standar
9	10	4	Sarimbit Standar Print Lukis	Standar
10	1	2011	Kaos Katun Print Bola	Katun
11	2	2012	Celana Standar Cap Warna	Standar
12	3	2010	Celana Standar Cap Warna	Standar
13	3	2011	Bahan Standar Cap Lasem	Standar
14	12	4	Rok Batik Print Kombinasi	Batik
15	1	2012	Jam Standar Print Lukis	Standar
16	9	3	Hem Standar Cap Tumpal	Standar
17	6	2012	Bahan Lawasan Tulis Tollet	Lawasan
18	8	3	Hem Standar Tulis Madura	Standar
19	4	2	Bahan Standar Cap Garis	Standar
20	6	2010	Bahan Beleddro Cap Mahkota	Beludru
21	11	4	Hem Sutra Print Rama	Sutra

PivotTable Fields

Choose fields to add to report:

Search

bulan
 kuartal
 tahun
 nama_produk
 nama_kategori
 nama_subkategori
 nama_pola
 nama_pelanggan

Drag fields between areas below:

FILTERS COLUMNS

ROWS VALUES

Defer Layout Update UPDATE

Sheet2 Sheet3 Sheet4 Sheet1

Ready

100%

6. Centang yang ada di PivotTable Field List yaitu :
- tahun
 - nama_sub kategori
 - jumlah

	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

Kegiatan 2

1. Tambahkan Field jumlah kembali ke kotak Value dengan cara drag. Sehingga akan muncul **Sum of jumlah2**

PivotTable Fields pane:

- Choose fields to add to report: Search
- Selected: nama_subkategori, nama_pola, nama_pelanggan, jenis_kelamin, nama_wilayah, jumlah, harga, Pendapatan
- Drag fields between areas below:
- FILTERS: tahun
- COLUMNS: Σ Values
- ROWS: nama_subkat...
- VALUES: Sum of jumlah, Sum of jumlah2

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

2. kembali ke area values dan klik tombol panah kebawah pada field sum of jumlah2. Pilih item **value field Setting**
3. Lalu pada dialog Value Field setting, ubah Sum menjadi Count. Lalu nama field akan berubah menjadi Count of Jumlah2

PivotTable Fields pane:

- Choose fields to add to report: Search
- Selected: nama_subkategori, nama_pola, nama_pelanggan, jenis_kelamin, nama_wilayah, jumlah, harga, Pendapatan
- Drag fields between areas below:
- FILTERS: tahun
- COLUMNS: Σ Values
- ROWS: nama_subkat...
- VALUES: Sum of jumlah, Count of jumlah2

	2010	2011	2012	Total Sum of jumlah	Total Count of jumlah2
Bahan	1	1	8	8	2
Batik				1	1
Bolero			1	1	
Celana	17	1		17	1
Hem	5	1	8	4	2
Jam		2	1	44	1
Jarik		1	1	1	2
Kaos		1	14	1	2
Rok				1	1
Sarimbit		1	1	1	1
Grand Total	23	3	21	7	10
				93	137
					20

Kegiatan 3

1. Buka sheet 1 fakta_penjualan.xls, dan letakkan kursor ke area pivotTable
2. Pada Menu Ribbon PivotTable Tools | Options, klik button formulas dan pilih Calculated Field
3. pada kontak dialog Insert Calculated Field yang muncul, masukan nilai kemudian klik OK
 - a. Name : Pendapatan
 - b. Formula = jumlah * harga
4. Field baru “Sum of Pendapatan” akan muncul pada Pivot Table

Fakta_Penjualan.xlsx - Excel (Product Activation Failed)

PivotTable Tools

PivotTable Name: PivotTable2 Active Field: Ituhan

Options PivotTable

PivotTable

Active Field

Group Selection Drill Down Drill Up Ungroup Group Field Group

Insert Slicer Timeline Connections Filter Refresh Change Data Data

Clear Select Move PivotTable Actions

Fields, Items, & Sets OLAP Tools Relationships

PivotChart Recommended PivotTables Tools

Field List Buttons Headers Show

B4 2010

	CI	CJ	CK	CL	CM	CN	CO	CP	
4 Count of jumlah2	4 Sum of Pendapatan								
8	0	8	2	2120000	17	4	15045000		
9	0	0	1	130000	1	1	500000		
10	0	0	1	0	8	1	130000		
11	0	0	1	945000	7	1	960000		
12	0	1	1	150000	1	1	945000		
13	0	1	1	150000	1	1	150000		
14	0	1	1	150000	1	1	150000		
15	0	0	0	0	1	1	225000		
16	0	0	0	0	1	1	225000		
17	0	17	1	935000	34	2	3740000		
18	0	17	1	935000	34	2	3740000		
19	0	4	2	1596000	17	5	19023000		
20	0	0	0	0	3	1	210000		
21	0	3	1	897000	3	1	897000		
22	0	0	1	100000	1	1	100000		
23	0	0	0	0	5	1	2750000		
24	0	0	0	0	5	1	500000		
25	0	44	1	3520000	44	1	3520000		
26	0	44	1	3520000	44	1	3520000		
27	0	4	1	160000	6	2	1590000		
13	0	1	1	150000	1	1	150000		
14	0	1	1	150000	1	1	150000		
15	0	0	0	0	1	1	225000		
16	0	0	0	0	1	1	225000		
17	0	17	1	935000	34	2	3740000		
18	0	17	1	935000	34	2	3740000		
19	0	4	2	1596000	17	5	19023000		
20	0	0	0	0	3	1	210000		
21	0	3	1	897000	3	1	897000		
22	0	0	1	100000	1	1	100000		
23	0	0	0	0	5	1	2750000		
24	0	0	0	0	5	1	500000		
25	0	44	1	3520000	44	1	3520000		
26	0	44	1	3520000	44	1	3520000		
27	0	4	1	160000	6	2	1590000		
33	1	225000	1	225000	1	1	225000		
34	1	225000	1	225000	1	1	225000		
35	0	0	0	0	1	1	150000		
36	0	0	0	0	1	1	150000		
37	1	225000	93	10	115692000	137	20	451963000	

Fakta_Penjualan.xlsx - Excel (Product Activation Failed)

PivotTable Tools

PivotTable Name: PivotTable2 Active Field: Ituhan

Options PivotTable

PivotTable

Active Field

Group Selection Drill Down Drill Up Ungroup Group Field Group

Insert Slicer Timeline Connections Filter Refresh Change Data Data

Clear Select Move PivotTable Actions

Fields, Items, & Sets OLAP Tools Relationships

PivotChart Recommended PivotTables Tools

Field List Buttons Headers Show

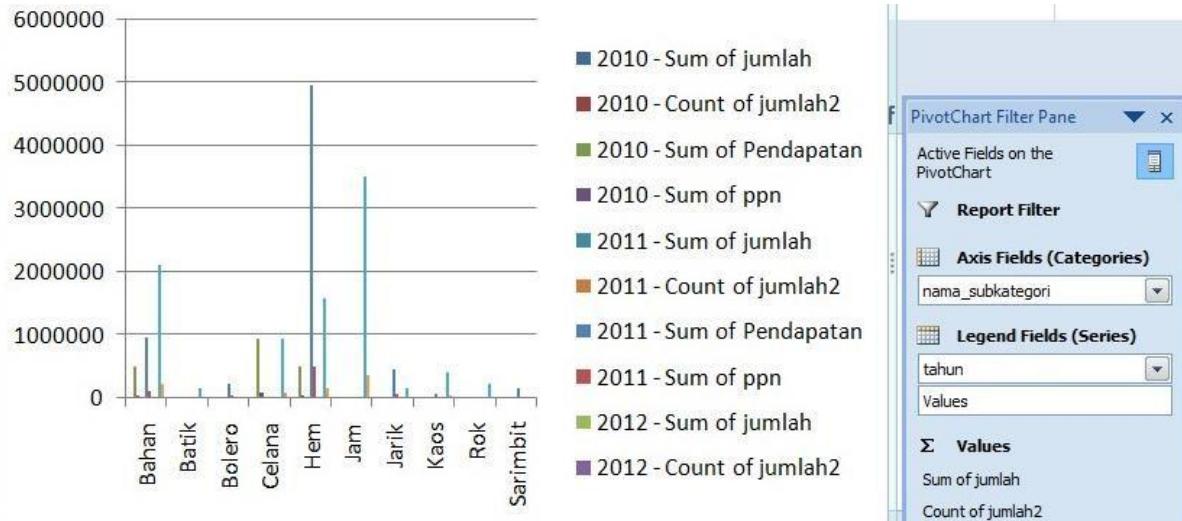
B4 2010

	CI	CJ	CK	CL	CM	CN	CO	CP	
13	0	1	1	150000	1	1	150000		
14	0	1	1	150000	1	1	150000		
15	0	0	0	0	1	1	225000		
16	0	0	0	0	1	1	225000		
17	0	17	1	935000	34	2	3740000		
18	0	17	1	935000	34	2	3740000		
19	0	4	2	1596000	17	5	19023000		
20	0	0	0	0	3	1	210000		
21	0	3	1	897000	3	1	897000		
22	0	0	1	100000	1	1	100000		
23	0	0	0	0	5	1	2750000		
24	0	0	0	0	5	1	500000		
25	0	44	1	3520000	44	1	3520000		
26	0	44	1	3520000	44	1	3520000		
27	0	4	1	160000	6	2	1590000		
33	1	225000	1	225000	1	1	225000		
34	1	225000	1	225000	1	1	225000		
35	0	0	0	0	1	1	150000		
36	0	0	0	0	1	1	150000		
37	1	225000	93	10	115692000	137	20	451963000	

TUGAS

1. Dengan menggunakan PivotTable pada file Fakta_Penjualan.xls tambahkan 2 buah field, yaitu :
 - a. PPN sebesar 10% dari tiap pendapatan pada Pivot Table.
 - b. Total penghasilan yang dihitung dari pendapatan dikurangi dengan PPN tersebut
2. Buatlah PivotTable dan PivotChart untuk melihat PPN dan Total penghasilan tersebut selama tahun 2010 – 2012.

Kategori produk terbanyak selama 3 tahun yaitu HEM



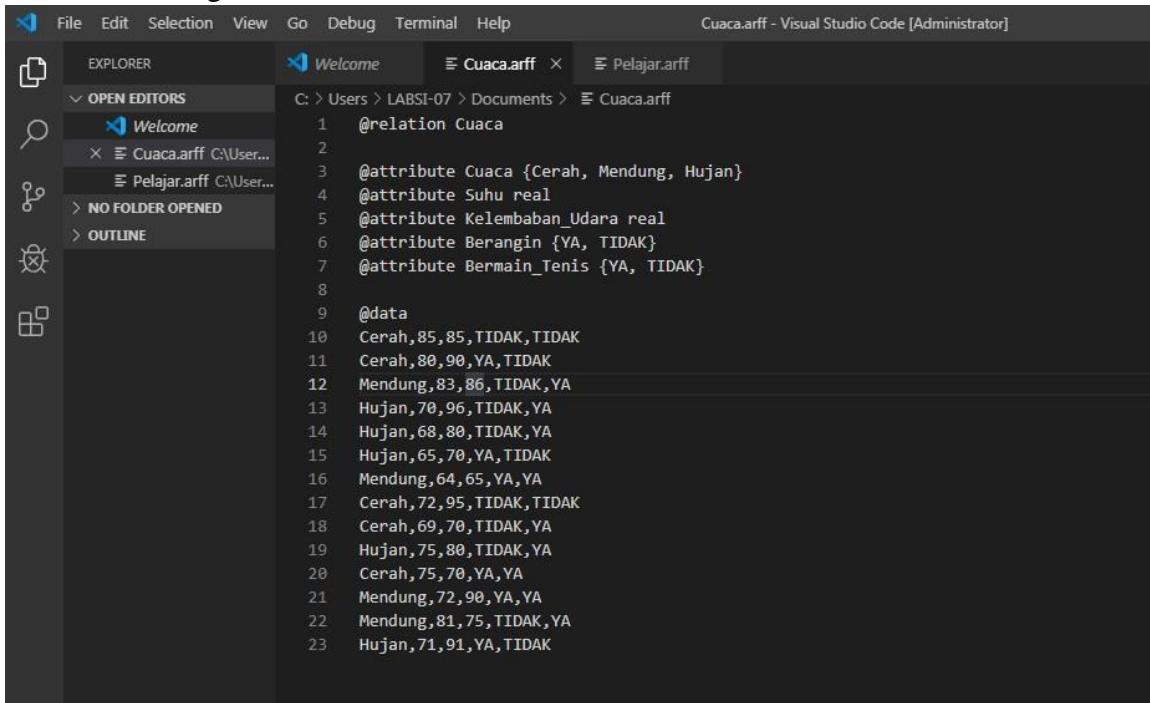
Modul 6

TUGAS

Modul 7

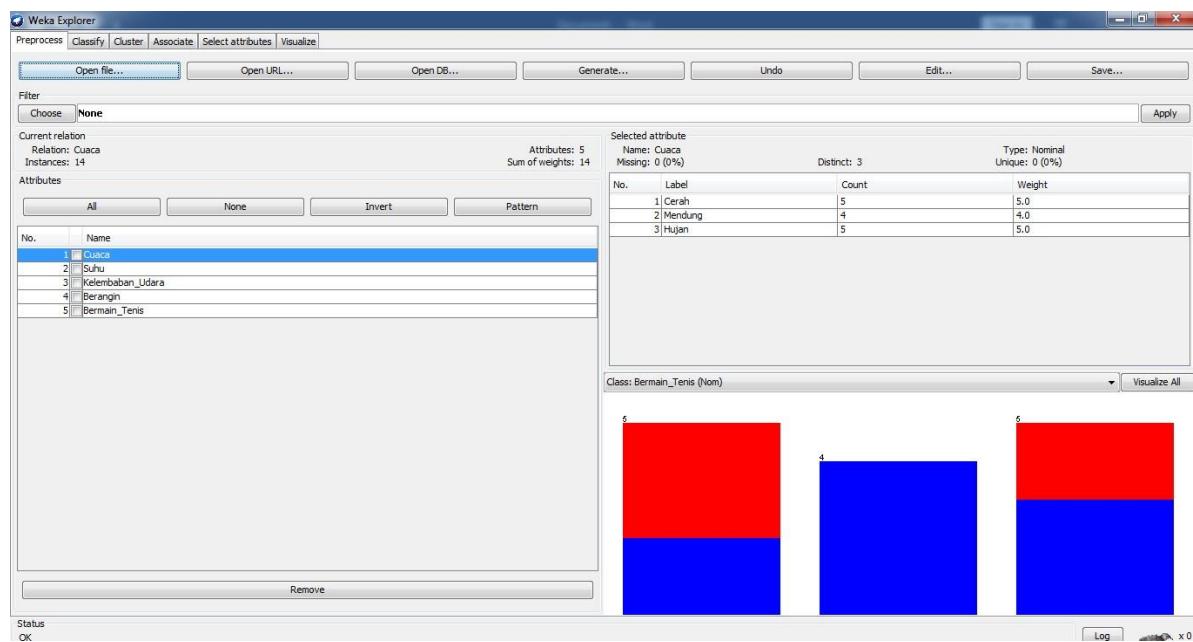
KEGIATAN

1. Print Screen Kegiatan table cuaca



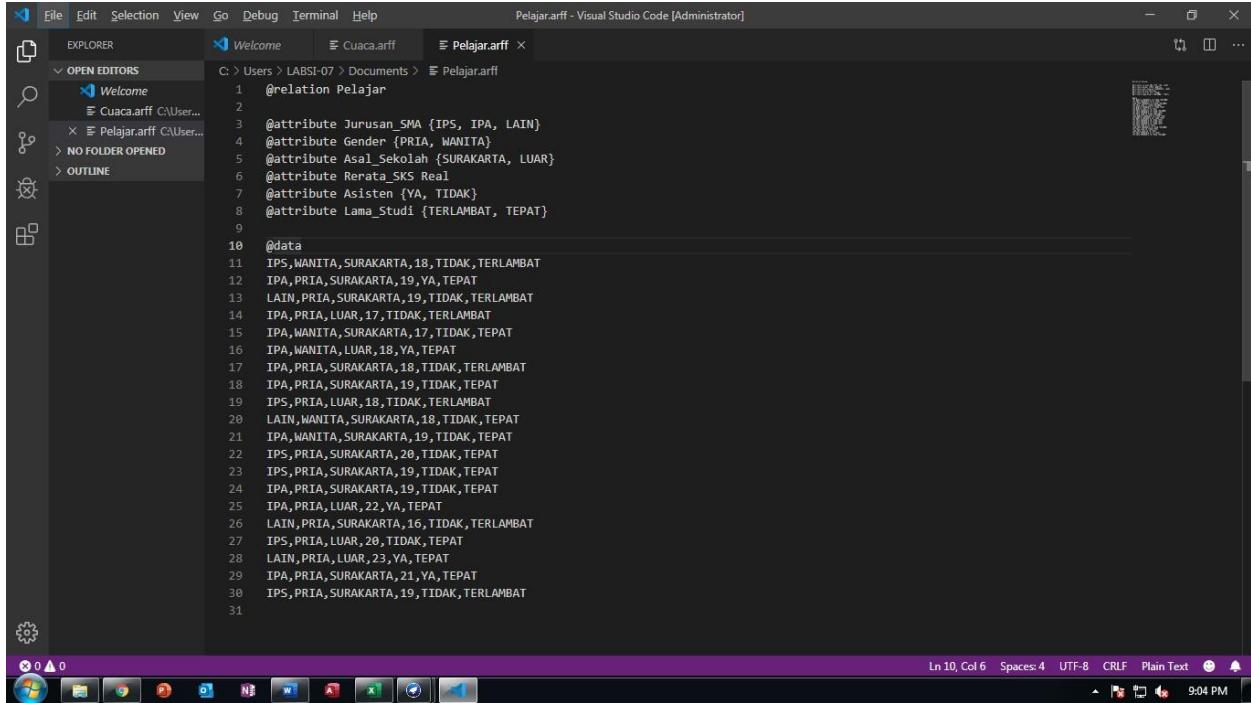
```
File Edit Selection View Go Debug Terminal Help
Welcome Cuaca.arff Pelajar.arff
C:\Users\LABSI-07\Documents\Cuaca.arff
1 @relation Cuaca
2
3 @attribute Cuaca {Cerah, Mendung, Hujan}
4 @attribute Suhu real
5 @attribute Kelembaban_Udara real
6 @attribute Berangin {YA, TIDAK}
7 @attribute Bermain_Tenis {YA, TIDAK}
8
9 @data
10 Cerah,85,85,TIDAK,TIDAK
11 Cerah,80,90,YA,TIDAK
12 Mendung,83,86,TIDAK,YA
13 Hujan,70,96,TIDAK,YA
14 Hujan,68,80,TIDAK,YA
15 Hujan,65,70,YA,TIDAK
16 Mendung,64,65,YA,YA
17 Cerah,72,95,TIDAK,TIDAK
18 Cerah,69,70,TIDAK,YA
19 Hujan,75,80,TIDAK,YA
20 Cerah,75,70,YA,YA
21 Mendung,72,90,YA,YA
22 Mendung,81,75,TIDAK,YA
23 Hujan,71,91,YA,TIDAK
```

2. Hasil menggunakan file ARFF dengan Weka



TUGAS

1. Print Screen tugas table Pelajar

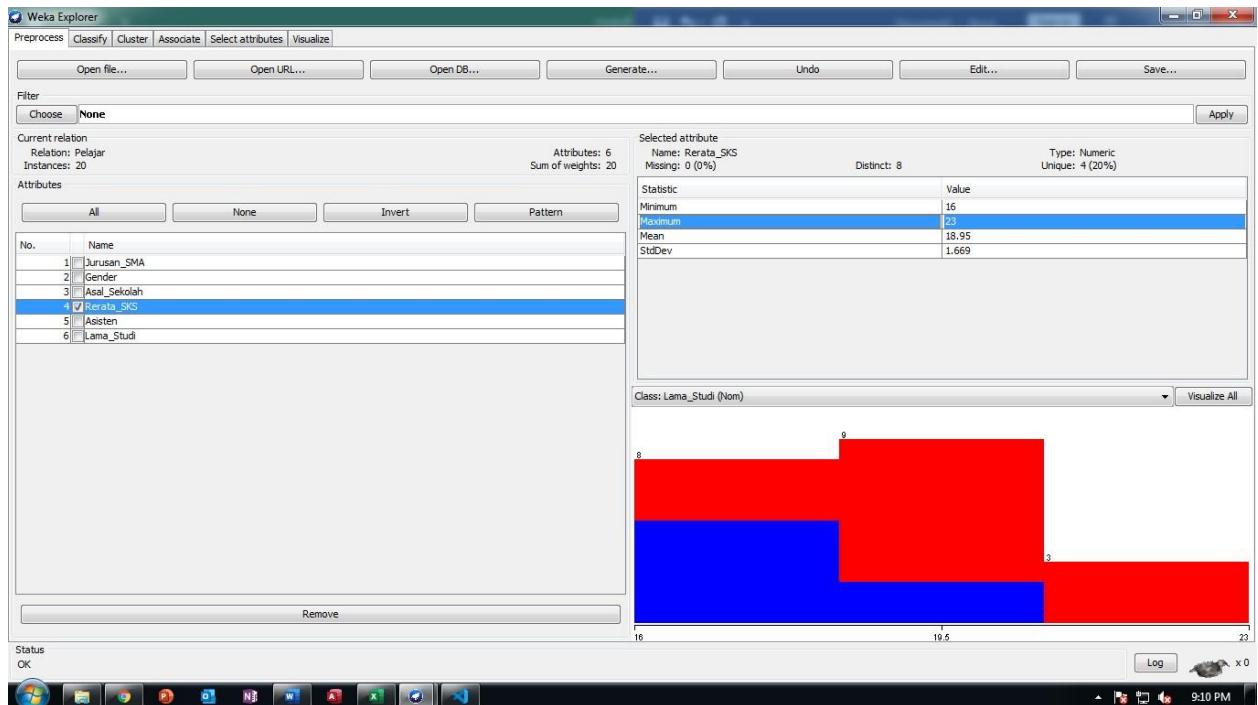


The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Debug, Terminal, Help.
- Title Bar:** Pelajar.arff - Visual Studio Code [Administrator].
- Explorer:** Shows 'OPEN EDITORS' with 'Welcome', 'Cuaca.arff', and 'Pelajar.arff'. It also shows 'C:\User...', 'NO FOLDER OPENED', and 'OUTLINE'.
- Editor:** Displays the 'Pelajar.arff' file content. The code is an ARFF file with the following structure:

```
1 @relation Pelajar
2
3 @attribute Jurusan_SMA {IPS, IPA, LAIN}
4 @attribute Gender {PRIA, WANITA}
5 @attribute Asal_Sekolah {SURAKARTA, LUAR}
6 @attribute Rerata_SKS Real
7 @attribute Asisten {YA, TIDAK}
8 @attribute Lama_Studi {TERLAMBAT, TEPAT}
9
10 @data
11 IPS, WANITA, SURAKARTA, 18, TIDAK, TERLAMBAT
12 IPA, PRIA, SURAKARTA, 19, YA, TEPAT
13 LAIN, PRIA, SURAKARTA, 19, TIDAK, TERLAMBAT
14 IPA, PRIA, LUAR, 17, TIDAK, TERLAMBAT
15 IPA, WANITA, SURAKARTA, 17, TIDAK, TEPAT
16 IPA, WANITA, LUAR, 18, YA, TEPAT
17 IPA, PRIA, SURAKARTA, 18, TIDAK, TERLAMBAT
18 IPA, PRIA, SURAKARTA, 19, TIDAK, TEPAT
19 IPS, PRIA, LUAR, 18, TIDAK, TERLAMBAT
20 LAIN, WANITA, SURAKARTA, 18, TIDAK, TEPAT
21 IPA, WANITA, SURAKARTA, 19, TIDAK, TEPAT
22 IPS, PRIA, SURAKARTA, 20, TIDAK, TEPAT
23 IPS, PRIA, SURAKARTA, 19, TIDAK, TEPAT
24 IPA, PRIA, SURAKARTA, 19, TIDAK, TEPAT
25 IPA, PRIA, LUAR, 22, YA, TEPAT
26 LAIN, PRIA, SURAKARTA, 16, TIDAK, TERLAMBAT
27 IPS, PRIA, LUAR, 20, TIDAK, TEPAT
28 LAIN, PRIA, LUAR, 23, YA, TEPAT
29 IPA, PRIA, SURAKARTA, 21, YA, TEPAT
30 IPS, PRIA, SURAKARTA, 19, TIDAK, TERLAMBAT
31
```
- Bottom Status Bar:** Ln 10, Col 6, Spaces: 4, UTF-8, CRLF, Plain Text, 9:04 PM.

2. Print Screen hasil menggunakan file ARFF dengan Weka

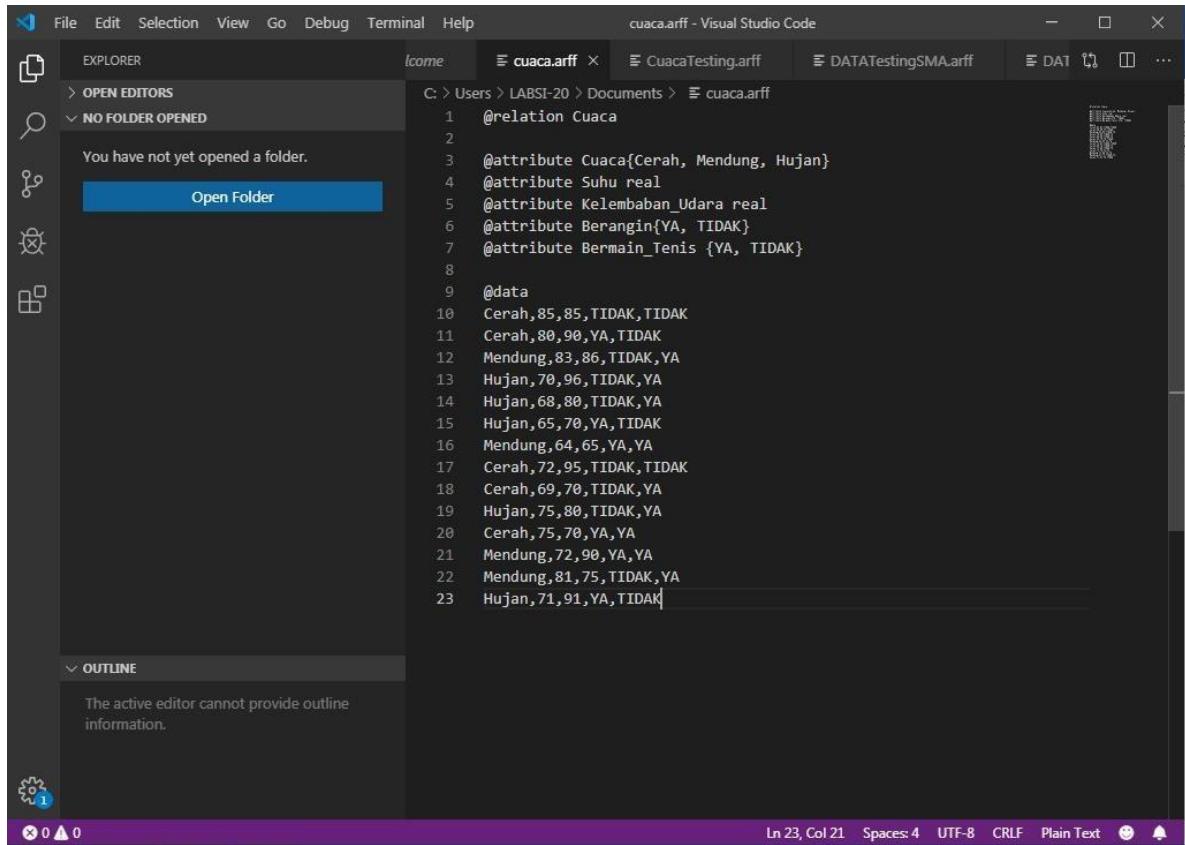


- a. Bertipe binomial : Gender, Asal_Sekolah, Asisten, Lama_Studi
- b. Bertipe Polynomial : Jurusan_SMA
- c. Bertipe Real : Rerata_SKS
- d. Rerata_SKS :
 - Maximum : 23
 - Minimum : 16
 - Mean : 18.95
 - StdDev : 1.669

Modul 8

KEGIATAN

1. Membuat file cuaca.arff

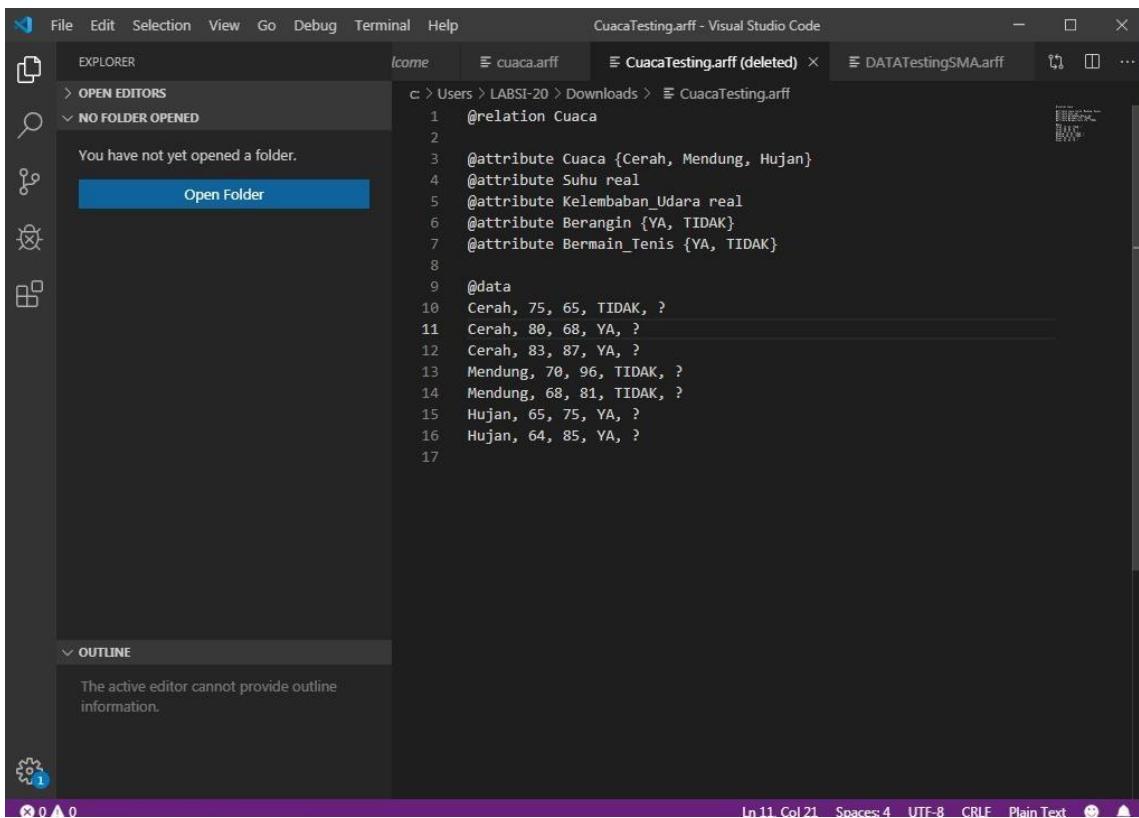


The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Debug, Terminal, Help.
- Title Bar:** cuaca.arff - Visual Studio Code.
- Explorer Panel:** Shows 'OPEN EDITORS' and 'NO FOLDER OPENED'. A tooltip 'You have not yet opened a folder.' is visible above the 'Open Folder' button.
- Editor Panel:** Displays the ARFF file content:

```
C: > Users > LABSI-20 > Documents > cuaca.arff
1 @relation Cuaca
2
3 @attribute Cuaca{Cerah, Mendung, Hujan}
4 @attribute Suhu real
5 @attribute Kelembaban_Udara real
6 @attribute Berangin{YA, TIDAK}
7 @attribute Bermain_Tenis {YA, TIDAK}
8
9 @data
10 Cerah,85,85,TIDAK,TIDAK
11 Cerah,88,90,YA,TIDAK
12 Mendung,83,86,TIDAK,YA
13 Hujan,78,96,TIDAK,YA
14 Hujan,68,80,TIDAK,YA
15 Hujan,65,70,YA,TIDAK
16 Mendung,64,65,YA,YA
17 Cerah,72,95,TIDAK,TIDAK
18 Cerah,69,70,TIDAK,YA
19 Hujan,75,80,TIDAK,YA
20 Cerah,75,70,YA,YA
21 Mendung,72,90,YA,YA
22 Mendung,81,75,TIDAK,YA
23 Hujan,71,91,YA,TIDAK|
```
- Outline Panel:** Shows 'The active editor cannot provide outline information.'
- Bottom Status Bar:** Ln 23, Col 21 | Spaces: 4 | UTF-8 | CRLF | Plain Text | Icons for undo, redo, and save.

2. Membuat File CuacaTesting.arff

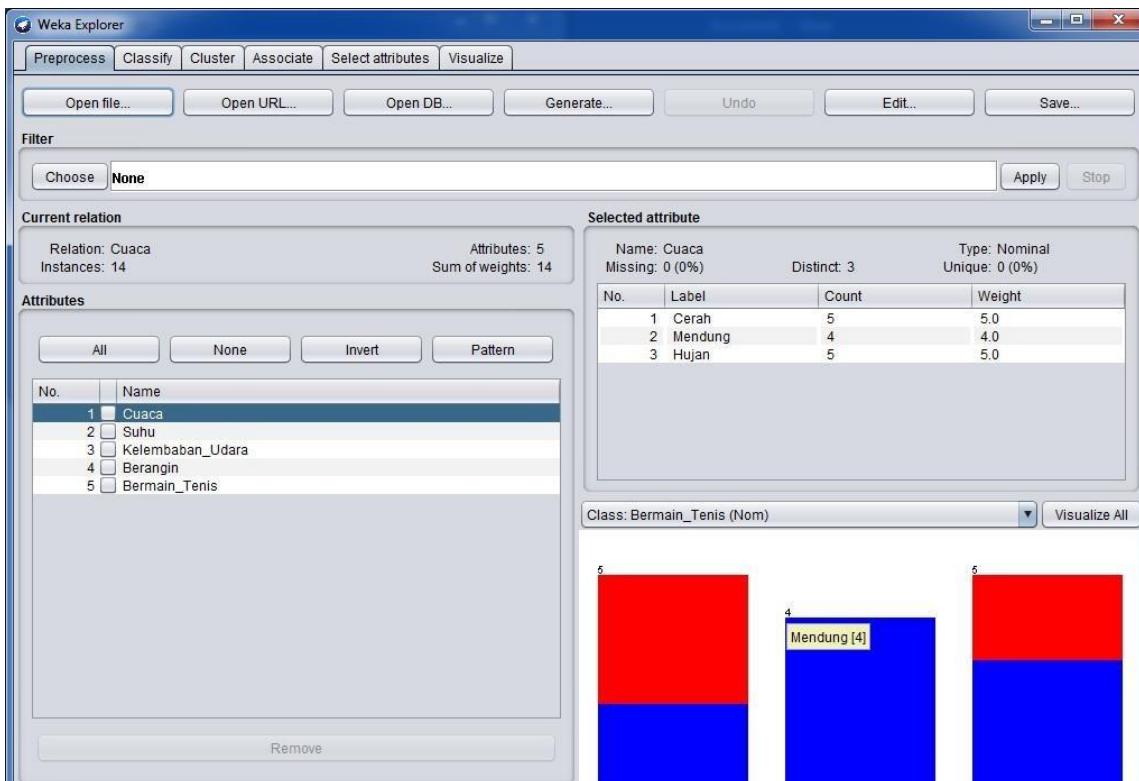


The screenshot shows the Visual Studio Code interface with the following details:

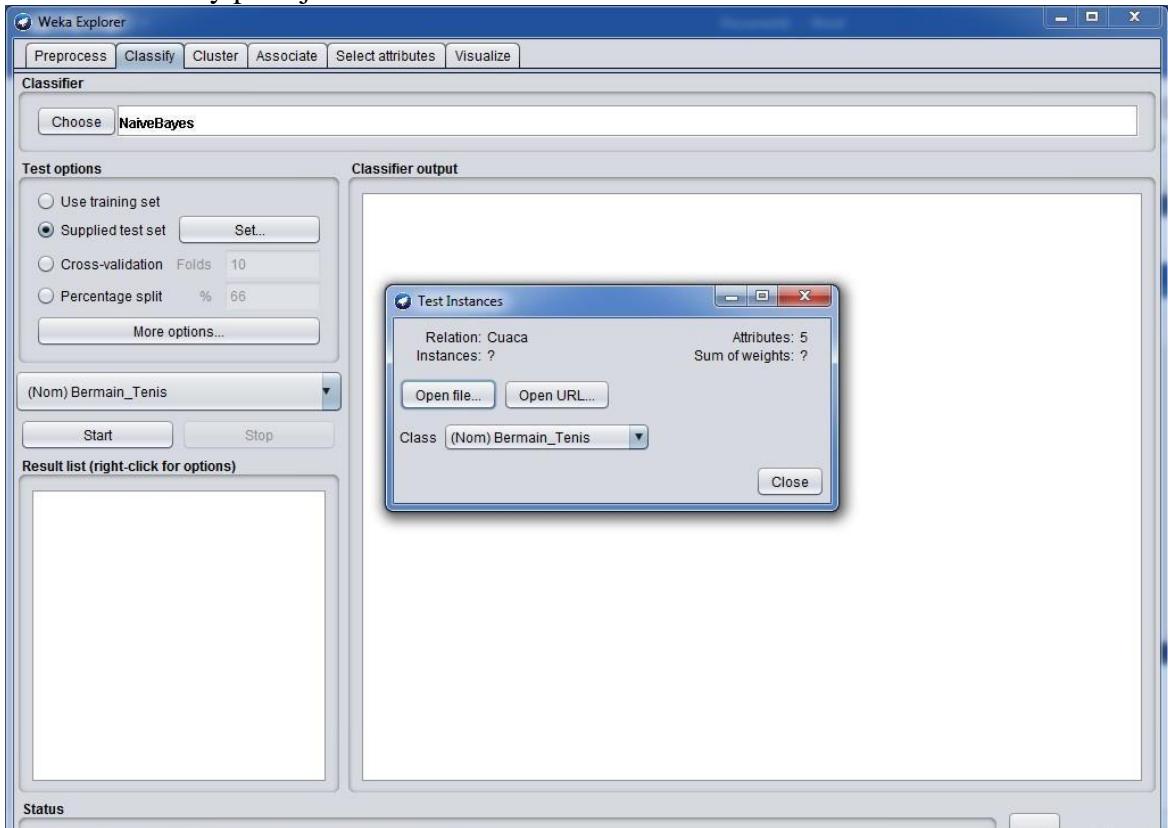
- File Bar:** File, Edit, Selection, View, Go, Debug, Terminal, Help.
- Editor Area:** The active editor shows the content of the file "CuacaTesting.arff".
- Content:**

```
c:\> Users > LABSI-20 > Downloads > CuacaTesting.arff
1 @relation Cuaca
2
3 @attribute Cuaca {Cerah, Mendung, Hujan}
4 @attribute Suhu real
5 @attribute Kelembaban_Udara real
6 @attribute Berangin {YA, TIDAK}
7 @attribute Bermain_Tenis {YA, TIDAK}
8
9 @data
10 Cerah, 75, 65, TIDAK, ?
11 Cerah, 80, 68, YA, ?
12 Cerah, 83, 87, YA, ?
13 Mendung, 70, 96, TIDAK, ?
14 Mendung, 68, 81, TIDAK, ?
15 Hujan, 65, 75, YA, ?
16 Hujan, 64, 85, YA, ?
17
```
- Explorer Panel:** Shows "OPEN EDITORS" and "NO FOLDER OPENED". A button "Open Folder" is highlighted.
- Outline Panel:** Displays the message: "The active editor cannot provide outline information."
- Bottom Status Bar:** Line 11, Col 21, Spaces 4, UTF-8, CRLF, Plain Text.

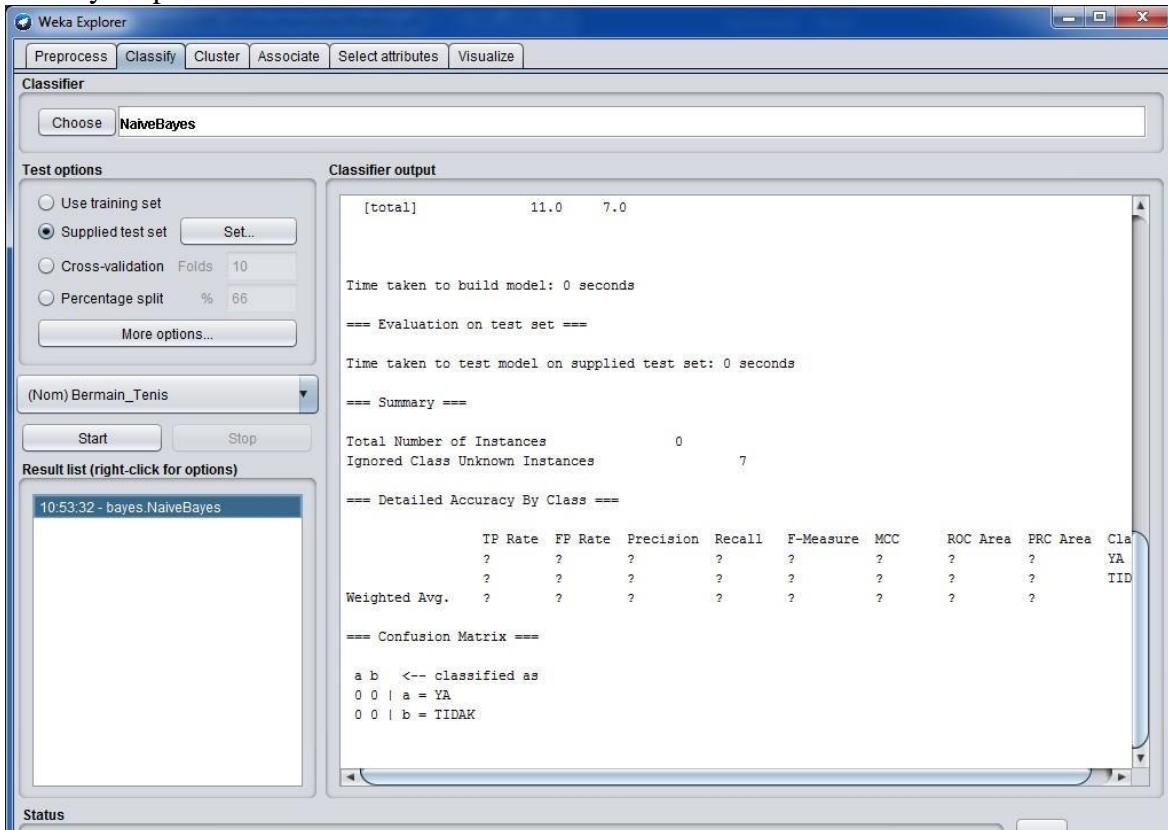
3. Membuka file cuaca.arff dengan aplikasi weka



4. Pilih tab Classify pada jendela weka



5. Hasilnya seperti ini



6. Hasil prediksi

Relation: Cuaca_predicted						
No.	1: Cuaca	2: Suhu	3: Kelembaban_Udara	4: Berangin	5: prediction margin	6: predicted Bermain_Tenis
	Nominal	Numeric	Nominal	Nominal	Numeric	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	Mend...	70.0	96.0	TIDAK	0.628523	YA
5	Mend...	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

7. Kolom predicted Bermain_Tenis

Relation: Cuaca_predicted						
No.	1: Cuaca	2: Suhu	3: Kelembaban_Udara	4: Berangin	5: prediction margin	6: predicted Bermain_Tenis
	Nominal	Numeric	Nominal	Nominal	Numeric	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

Weka GUI Chooser

Program Visualization Tools Help

Applications

Explorer

Experimenter

KnowledgeFlow

Simple CLI

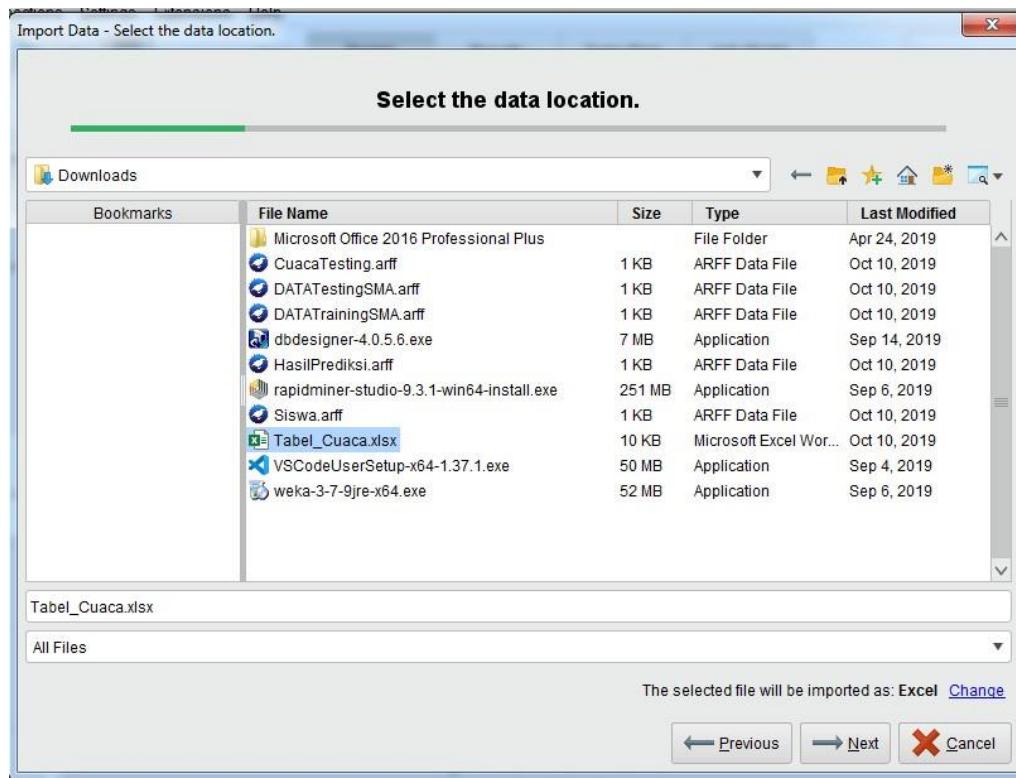
Weka Environment for Knowledge Analysis
Version 3.7.9
(c) 1999 - 2013
The University of Waikato
Hamilton, New Zealand

11:00 AM

8. File Tabel_cuaca.xls

9. Tabel testing

10. Data Training



The dialog box is titled "Import Data - Select the cells to import." It shows a table with columns A, B, C, D, and E. The header row is selected. The table data is as follows:

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

The status bar at the bottom says: "The selected file will be imported as: Excel [Change](#)".

Import Data - Format your columns.

Format your columns.

Replace errors with missing values [?](#)

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

no problems.

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

<new process> - RapidMiner Studio Trial 9.3.001 @ LABSI-20-PC

File Edit Process View Connections Settings Extensions Help

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

Result History ExampleSet (/Local Repository/DataCuaca_Training) Filter (14 / 14 examples): all

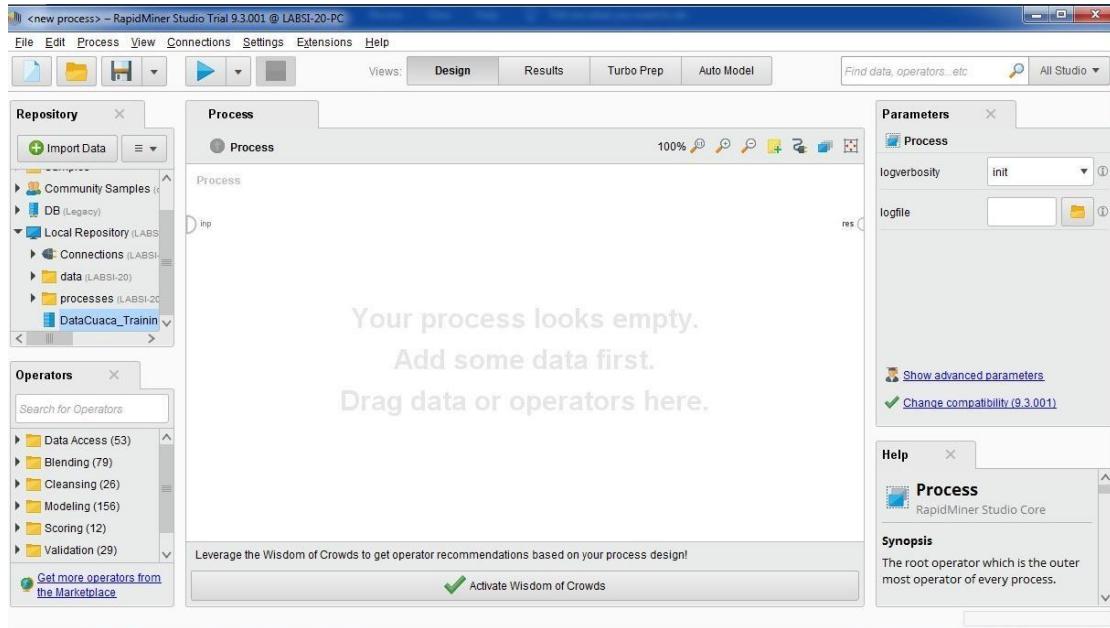
Data Statistics Visualizations Annotations

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

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

Repository

- + Import Data
- Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB (legacy)
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca_Training (LABSI-20 - v)



11. Data Testing

Import Data - Select the cells to import.

Select the cells to import.

Sheet: Testing ▾ Cell range: A:D Select All Define header row: 1

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

← Previous → Next ✖ Cancel

Import Data - Format your columns.

Format your columns.

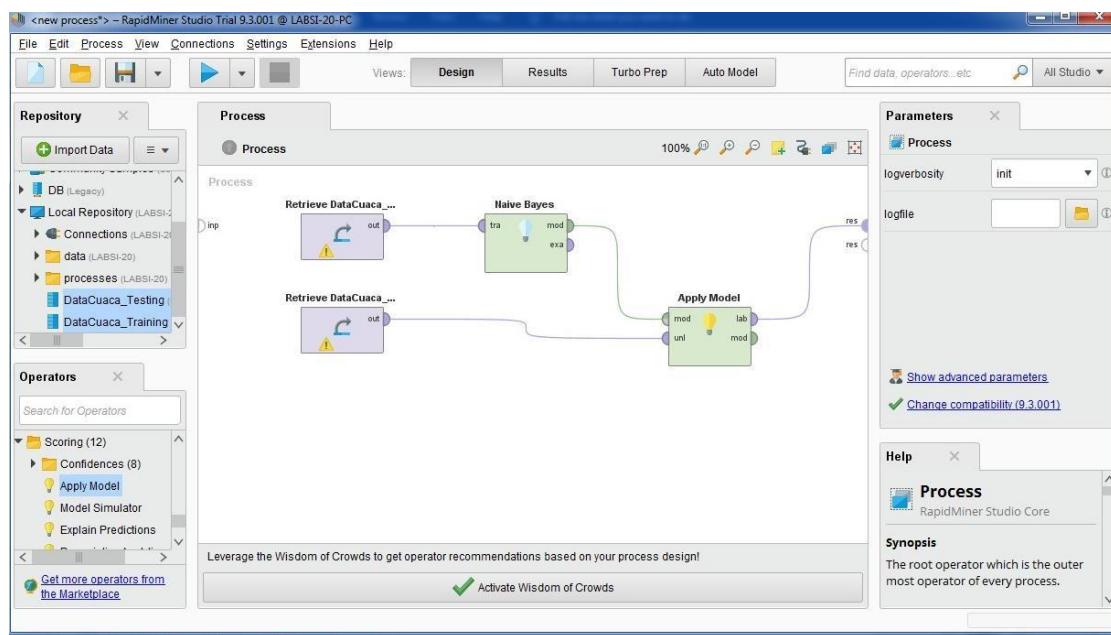
Replace errors with missing values [?](#)

	Cuaca polynominal	Suhu integer	Kelembaban_udara integer	Berangin polynominal
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

[YA]

✓ no problems.

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



RapidMiner Studio Trial 9.3.001 @ LABSI-20-PC

File Edit Process View Connections Settings Extensions Help

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

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

Data Statistics Visualizations Annotations

Open in Turbo Prep Auto Model Filter (7 / 7 examples): all

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

ExampleSet (7 examples, 3 special attributes, 4 regular attributes)

Repository

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca_Testing (LABSI-20 - v1.10/10/19 11:08)
 - DataCuaca_Training (LABSI-20 - v1.10/10/19 11:08)

RapidMiner Studio Trial 9.3.001 @ LABSI-20-PC

File Edit Process View Connections Settings Extensions Help

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

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

Data Statistics Visualizations Annotations

Name Type Missing Statistics Filter (7 / 7 attributes): Search for Attributes

Name	Type	Missing	Statistics	Filter (7 / 7 attributes):	Search for Attributes
Prediction prediction(Bermain_Tenis)	Binominal	0	Least TIDAK (2)	Most YA (5)	Values YA (5), TIDAK (2)
Confidence_TIDAK confidence(TIDAK)	Real	0	Min 0.007	Max 0.856	Average 0.353
Confidence_YA confidence(YA)	Real	0	Min 0.144	Max 0.993	Average 0.647
Cuaca	Polynomial	0	Least Mendung (2)	Most Cerah (3)	Values Cerah (3), Mendung (2)
Suhu	Integer	0	Min 64	Max 83	Average 72.143
Kelembaban_udara	Integer	0	Min 65	Max 96	Average 79.571
Berangin	Polynomial	0	Least TIDAK (3)	Most YA (4)	Values YA (4), TIDAK (3)

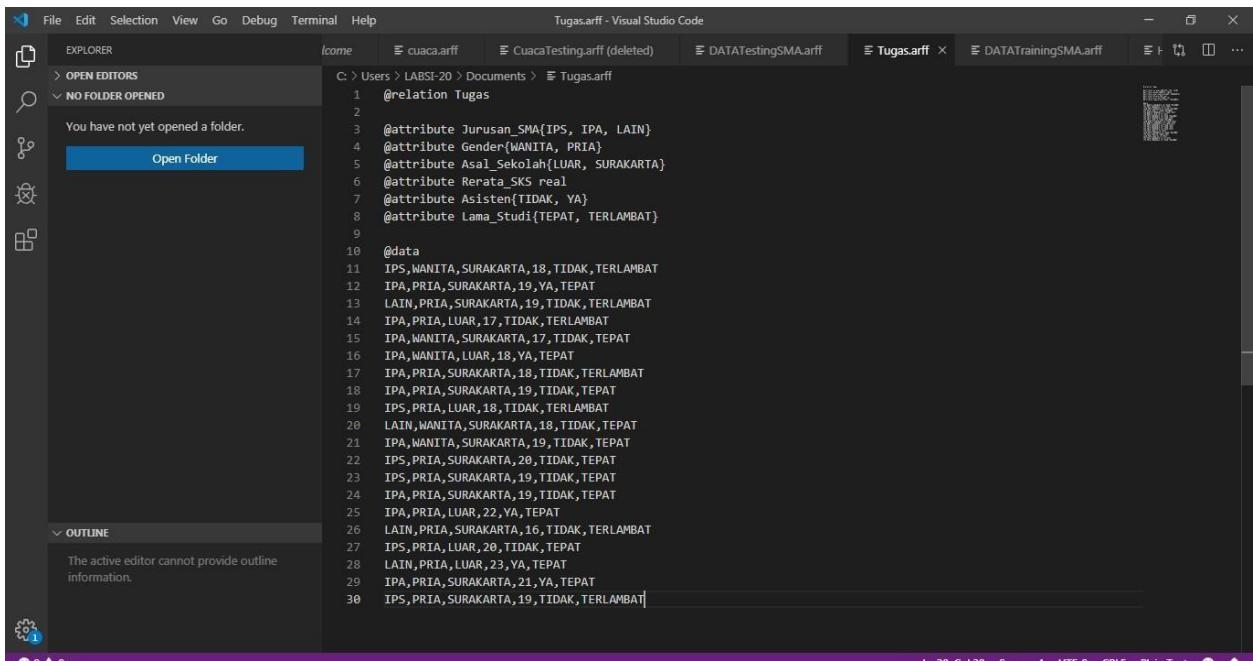
Showing attributes 1 - 7 Examples: 7 Special Attributes: 3 Regular Attributes: 4

Repository

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca_Testing (LABSI-20 - v1.10/10/19 11:08)
 - DataCuaca_Training (LABSI-20 - v1.10/10/19 11:08)

TUGAS

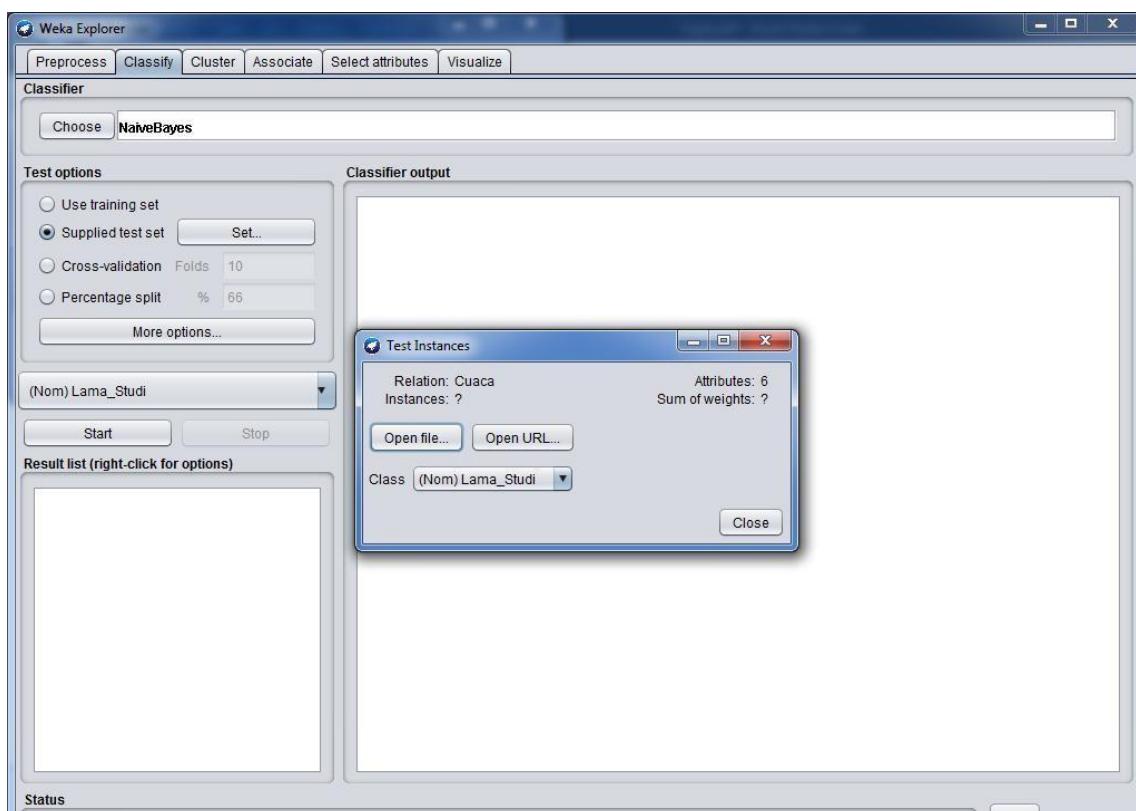
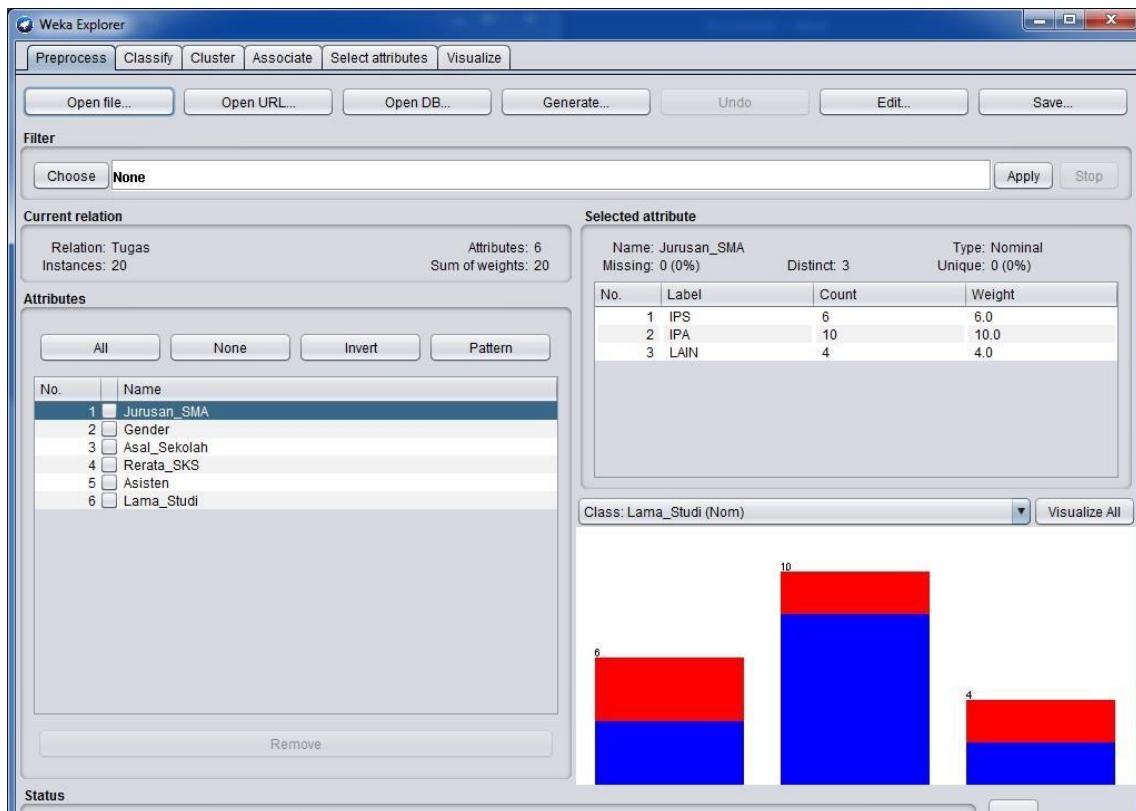
1. Membuat tugas.arff dari tabel siswa

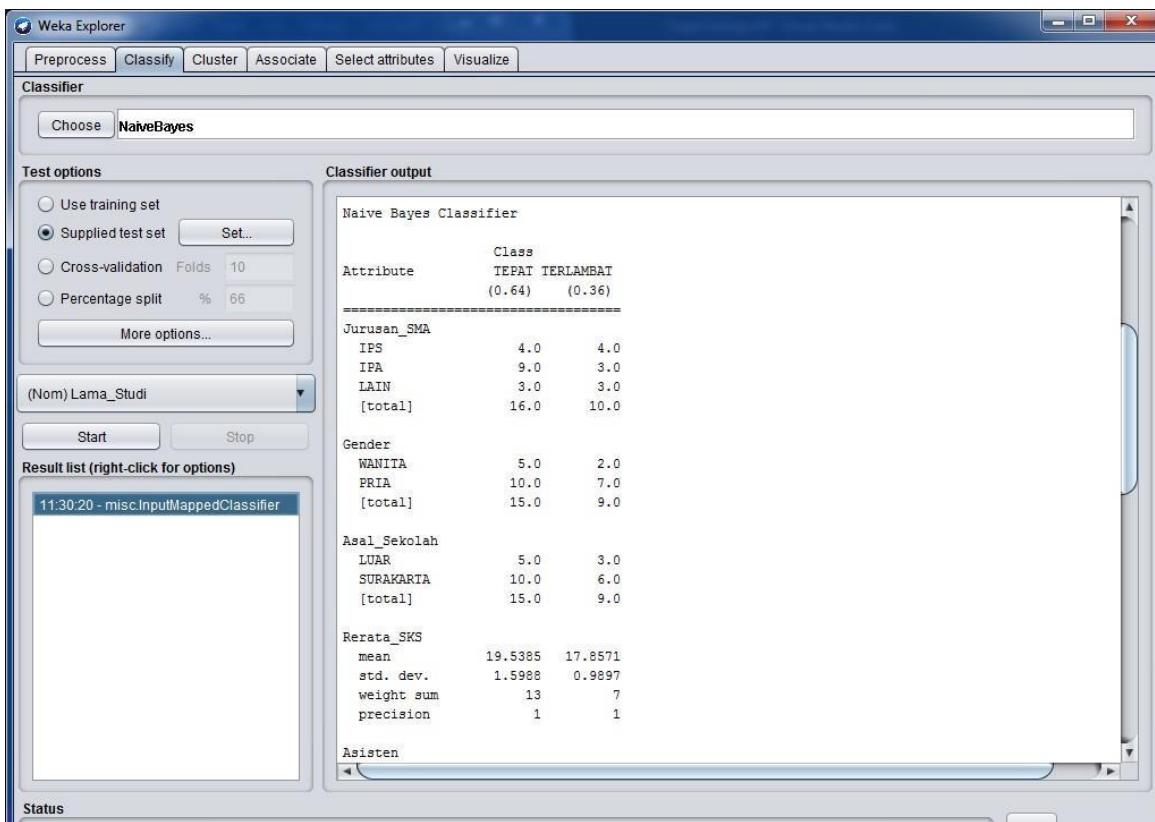


The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Debug, Terminal, Help.
- Editor Area:** The active editor contains the ARFF file content. The code is as follows:

```
1 @relation Tugas
2
3 @attribute Jurusan_SMA{IPS, IPA, LAIN}
4 @attribute Gender{WANITA, PRIA}
5 @attribute Asal_Sekolah{LUAR, SURAKARTA}
6 @attribute Rerata_SKS real
7 @attribute Asisten{TIDAK, YA}
8 @attribute Lama_Studi{TEPAT, TERLAMBAT}
9
10 @data
11 IPS,WANITA,SURAKARTA,18,TIDAK,TERLAMBAT
12 IPA,PRIA,SURAKARTA,19,YA,TEPAT
13 LAIN,PRIA,SURAKARTA,19,TIDAK,TERLAMBAT
14 IPA,PRIA,LUAR,17,TIDAK,TERLAMBAT
15 IPA,WANITA,SURAKARTA,17,TIDAK,TEPAT
16 IPA,WANITA,LUAR,18,YA,TEPAT
17 IPA,PRIA,SURAKARTA,18,TIDAK,TERLAMBAT
18 IPA,PRIA,SURAKARTA,19,TIDAK,TEPAT
19 IPS,PRIA,LUAR,18,TIDAK,TERLAMBAT
20 LAIN,WANITA,SURAKARTA,18,TIDAK,TEPAT
21 IPA,WANITA,SURAKARTA,19,TIDAK,TEPAT
22 IPS,PRIA,SURAKARTA,20,TIDAK,TEPAT
23 IPS,PRIA,SURAKARTA,19,TIDAK,TEPAT
24 IPA,PRIA,SURAKARTA,19,TIDAK,TEPAT
25 IPA,PRIA,LUAR,22,YA,TEPAT
26 LAIN,PRIA,SURAKARTA,16,TIDAK,TERLAMBAT
27 IPS,PRIA,LUAR,20,TIDAK,TEPAT
28 LAIN,PRIA,LUAR,23,YA,TEPAT
29 IPA,PRIA,SURAKARTA,21,YA,TEPAT
30 IPS,PRIA,SURAKARTA,19,TIDAK,TERLAMBAT
```





ARFF-Viewer - C:\Users\LABSI-20\Documents\TugasTesting.arff

File Edit View

TugasTesting.arff

Relation: Tugas

No	1: Jurusan_SMA	2: Gender	3: Asal_sekolah	4: Rerata_SKS	5: Asisten	6: Lama_Studi
	Nominal	Nominal	Nominal	Numeric	Nominal	Nominal
1	LAIN	WANITA	SURAKARTA	18.0	TIDAK	
2	IPA	PRIA	SURAKARTA	19.0	YA	
3	LAIN	PRIA	SURAKARTA	19.0	TIDAK	
4	IPS	PRIA	LUAR	17.0	TIDAK	
5	LAIN	WANITA	SURAKARTA	17.0	TIDAK	
6	IPA	WANITA	LUAR	18.0	YA	
7	IPA	PRIA	SURAKARTA	18.0	TIDAK	
8	IPA	PRIA	SURAKARTA	19.0	TIDAK	
9	IPS	PRIA	LUAR	18.0	TIDAK	
10	LAIN	WANITA	SURAKARTA	18.0	TIDAK	

Data Testing

Screenshot 1: Import Data - Select the cells to import.

The screenshot shows the RapidMiner Studio interface. A dialog box titled "Import Data - Select the cells to import." is open, showing a table with 11 rows and 5 columns labeled A through E. The columns contain attributes: Jurusan_SMA, Gender, Asal_Sekolah, Rerata_Sekolah, and Asisten. The "Define header row" checkbox is checked. The status bar at the bottom says "Activate Wisdom of Crowds".

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

Screenshot 2: ExampleSet (/Local Repository/Tugas_Testing)

The screenshot shows the RapidMiner Studio interface with the "ExampleSet (/Local Repository/Tugas_Testing)" tab selected. The data table is identical to the one in Screenshot 1. The status bar at the bottom says "Calculating result: Visualizations".

Row No.	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_Sekolah	Asisten
1	LAIN	WANITA	SURAKARTA	18	TIDAK
2	IPA	PRIA	SURAKARTA	19	YA
3	LAIN	PRIA	SURAKARTA	19	TIDAK
4	IPS	PRIA	LUAR	17	TIDAK
5	LAIN	WANITA	SURAKARTA	17	TIDAK
6	IPA	WANITA	LUAR	18	YA
7	IPA	PRIA	SURAKARTA	18	TIDAK
8	IPA	PRIA	SURAKARTA	19	TIDAK
9	IPS	PRIA	LUAR	18	TIDAK
10	LAIN	WANITA	SURAKARTA	18	TIDAK

2. Data Training

Import Data - Select the cells to import.

Select the cells to import.

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

	A	B	C	D	E	F
1	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_Sekolah	Asisten	Lama_Studi
2	IPS	WANITA	SURAKARTA	18.000	TIDAK	TERLAMBAT
3	IPA	PRIA	SURAKARTA	19.000	YA	TEPAT
4	LAIN	PRIA	SURAKARTA	19.000	TIDAK	TERLAMBAT
5	IPA	PRIA	LUAR	17.000	TIDAK	TERLAMBAT
6	IPA	WANITA	SURAKARTA	17.000	TIDAK	TEPAT
7	IPA	WANITA	LUAR	18.000	YA	TEPAT
8	IPA	PRIA	SURAKARTA	18.000	TIDAK	TERLAMBAT
9	IPA	PRIA	SURAKARTA	19.000	TIDAK	TEPAT
10	IPS	PRIA	LUAR	18.000	TIDAK	TERLAMBAT
11	LAIN	WANITA	SURAKARTA	18.000	TIDAK	TEPAT
12	IPA	WANITA	SURAKARTA	19.000	TIDAK	TEPAT
13	IPS	PRIA	SURAKARTA	20.000	TIDAK	TEPAT
14	IPS	PRIA	SURAKARTA	19.000	TIDAK	TEPAT
15	IPA	PRIA	SURAKARTA	18.000	TIDAK	TEPAT

← Previous → Next ✖ Cancel

Import Data - Format your columns.

Format your columns.

Replace errors with missing values ⓘ

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

✓ no problems.

← Previous → Next ✖ Cancel

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Result History

ExampleSet (/Local Repository/Tugas_Training) **ExampleSet (/Local Repository/Tugas_Testing)**

Data

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

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

Repository

- Import Data
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca_Testing (LABSI-20 - v1, 10/10/19 11:00)
 - DataCuaca_Training (LABSI-20 - v1, 10/10/19 11:11)
 - Tugas_Testing (LABSI-20 - v1, 10/10/19 11:41 AM)
 - Tugas_Training (LABSI-20 - v1, 10/10/19 11:43 AM)

<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-20-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Repository

- Import Data
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca_Testing (LABSI-20 - v1, 10/10/19 11:00)
 - DataCuaca_Training (LABSI-20 - v1, 10/10/19 11:11)
 - Tugas_Testing (LABSI-20 - v1, 10/10/19 11:41 AM)
 - Tugas_Training (LABSI-20 - v1, 10/10/19 11:43 AM)

Process

```

graph LR
    subgraph In [In]
        direction TB
        R1[Retrieve Tugas_Train...]
        R2[Retrieve Tugas_Tes...]
    end
    subgraph Process [Process]
        direction TB
        NB[Naive Bayes]
        AP[Apply Model]
    end
    subgraph Out [Out]
        direction TB
        R3[Retrieve Tugas_Tes...]
    end

    R1 --> NB
    R2 --> AP
    NB -- tra --> AP
    AP -- mod --> R3
    AP -- lab --> R3
  
```

Operators

- Confidences (8)
- Apply Model
- Model Simulator
- Explain Predictions
- Prescriptive Analytics
- Validation (29)

Get more operators from the Marketplace

Parameters

Process

- verbosity: init
- logfile:

Show advanced parameters

Change compatibility (9.3.001)

Help

Process

RapidMiner Studio Core

Synopsis

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

Description

The screenshot shows the RapidMiner Studio interface. The top menu bar includes File, Edit, Process, View, Connections, Settings, Extensions, Help, Views: Design, Results, Turbo Prep, Auto Model, Find data, operators...etc, and All Studio.

The main area displays two ExampleSets: Tugas_Training and Tugas_Testing. A central table shows the results of an 'Apply Model' operation. The Repository panel on the right lists various training resources, samples, and local repository items, including DataCuaca_Testing, DataCuaca_Training, Tugas_Testing, and Tugas_Training.

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)

3. Menambahkan data

The screenshot shows the RapidMiner Studio interface in Design mode. The top menu bar includes File, Edit, Process, View, Connections, Settings, Extensions, Help, Views: Design, Results, Turbo Prep, Auto Model, Find data, operators...etc, and All Studio.

The main area displays a process flow diagram. It starts with a 'Retrieve TugasBaru...' operator, followed by a 'Naive Bayes' model, and ends with an 'Apply Model' operator. The 'Parameters' panel on the right shows 'Process' parameters like 'verbosity: init' and 'logfile'. The 'Operators' panel on the left shows the 'apply' category, which includes 'Forecasting', 'Scoring', and 'Confidences' operators.

```

graph LR
    R1[Retrieve TugasBaru...] --> NB[Naive Bayes]
    NB --> AM[Apply Model]
    
```

4. Dewi dan Jono sama-sama lulus TEPAT.

Screenshot of RapidMiner Studio Trial 9.3.001 showing the Results view for a process named "new process*".

The interface includes a top menu bar with File, Edit, Process, View, Connections, Settings, Extensions, Help, and a toolbar with various icons. The Views tab is set to Results, and the sub-tabs are Design, Results, Turbo Prep, and Auto Model.

The main area displays a Result History panel with four entries: ExampleSet (//Local Repository/TugasBaru_Testing), ExampleSet (//Local Repository/Tugas_Training), ExampleSet (//Local Repository/TugasBaru_Testing), and ExampleSet (Apply Model). The "ExampleSet (Apply Model)" tab is active, showing a table with 12 rows of data.

The table has columns: Row No., prediction(L...), confidence(...), confidence(...), Jurusan_SMA, Gender, Asal_Sekolah, Rerata_Sek..., and Asisten. The data is as follows:

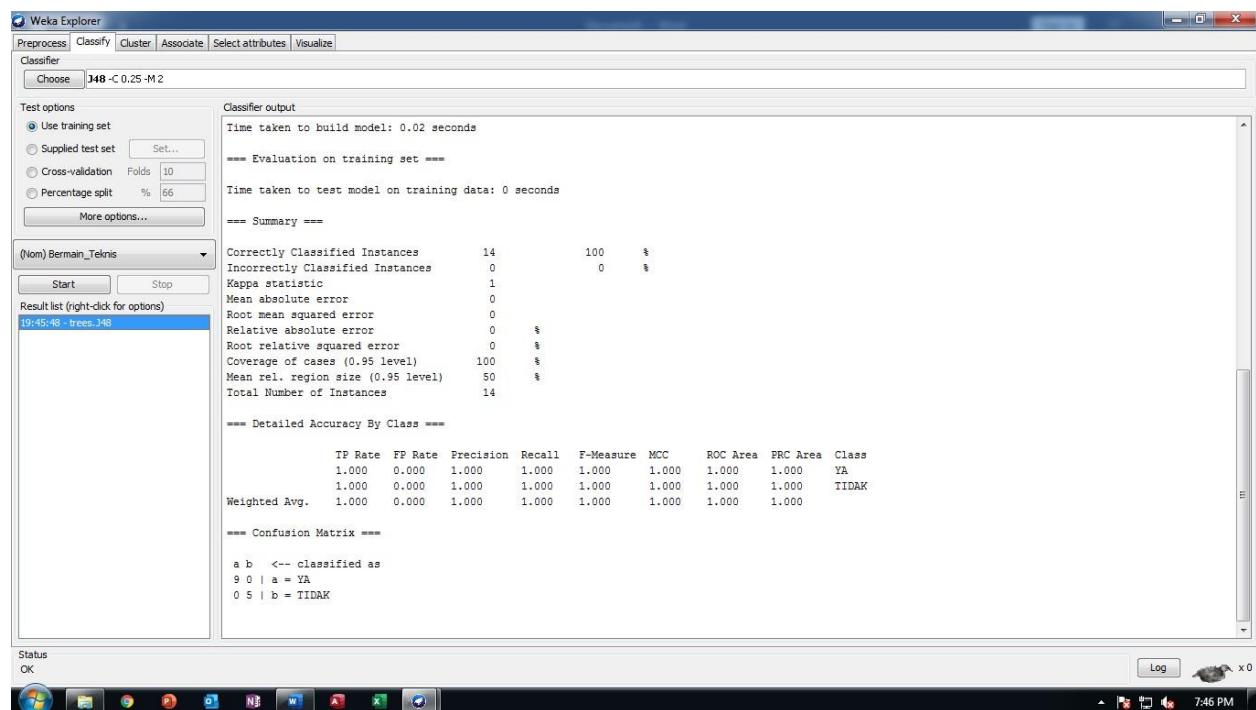
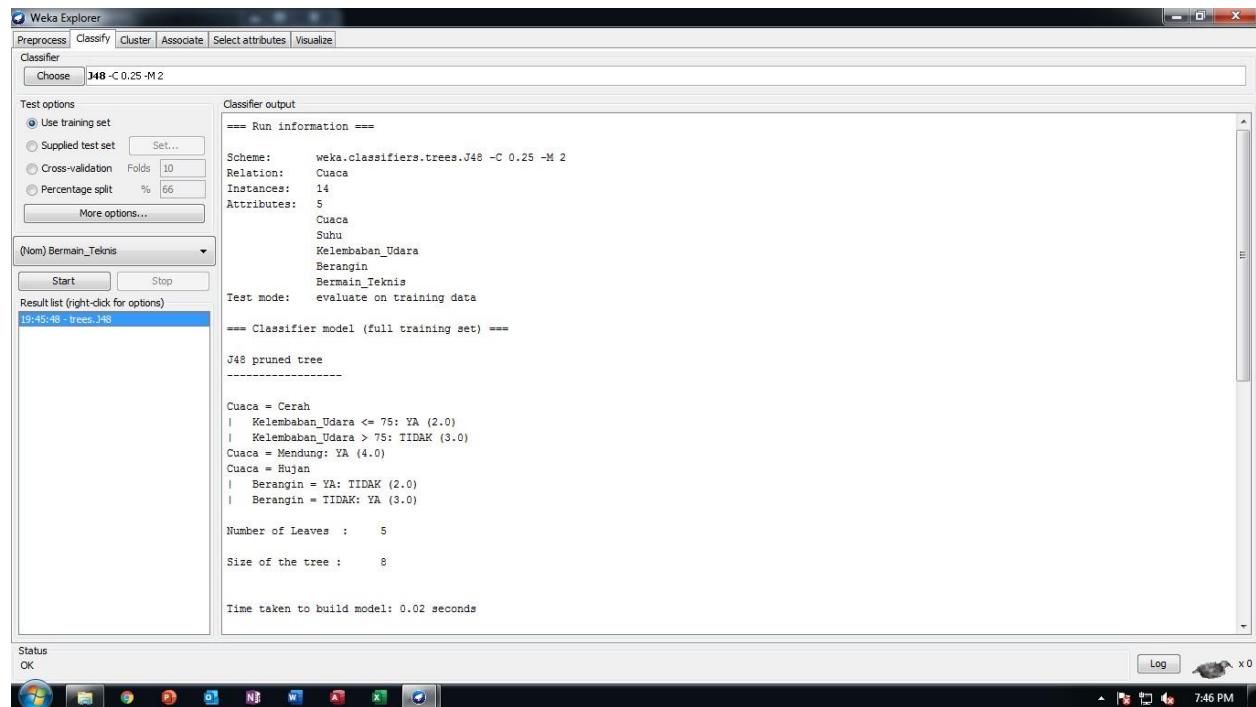
Row No.	prediction(L...)	confidence(...)	confidence(...)	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_Sek...	Asisten
1	TERLAMBAT	0.648	0.352	LAIN	WANITA	SURAKARTA	18	TIDAK
2	TEPAT	0.005	0.995	IPA	PRIA	SURAKARTA	19	YA
3	TERLAMBAT	0.650	0.350	LAIN	PRIA	SURAKARTA	19	TIDAK
4	TERLAMBAT	0.868	0.132	IPS	PRIA	LUAR	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

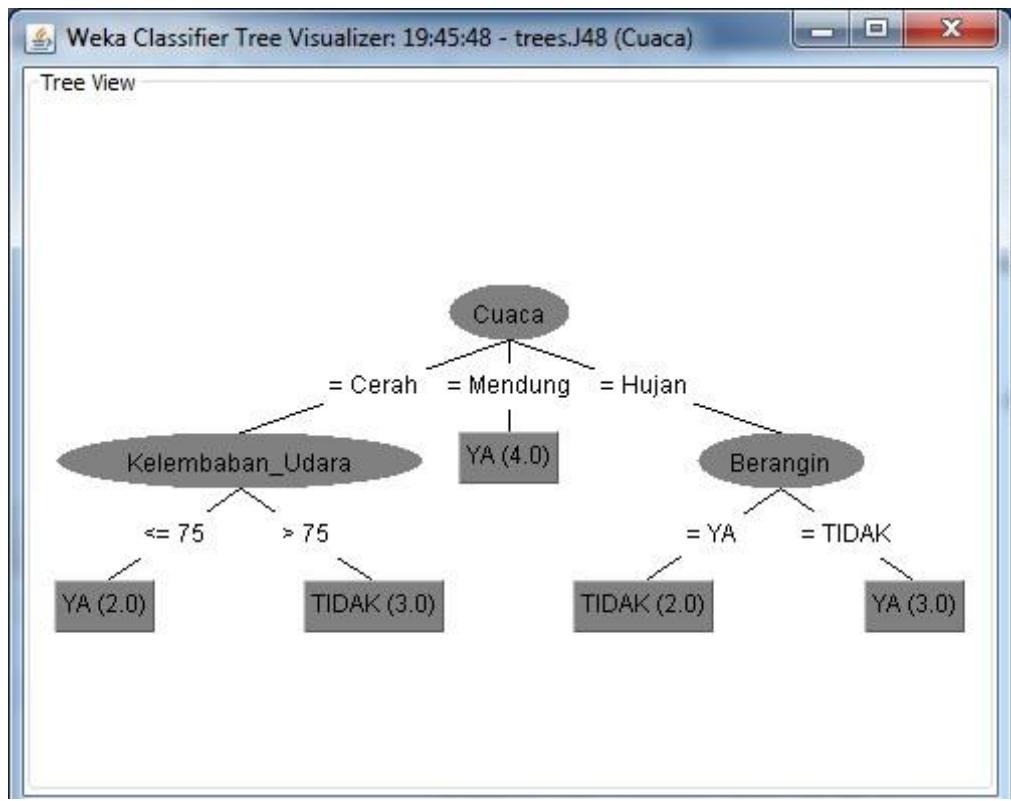
Below the table, a message states: ExampleSet (12 examples, 3 special attributes, 5 regular attributes).

The right side of the interface shows a Repository panel with sections for Training Resources, Community Samples, Samples, DB (Legacy), and Local Repository. The Local Repository section lists Connections, data, processes, and specific items like DataCuaca_Testing, DataCuaca_Training, Tugas_Testing, Tugas_Training, and TugasBaru_Testing.

Modul 9

PERCOBAAN





<new process> – RapidMiner Studio Free 9.3.001 @ LABSI-07-PC

File Edit Process View Connections Settings Extensions Help

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

Tree (Decision Tree)

Result History

Criterion accuracy

Table View Plot View

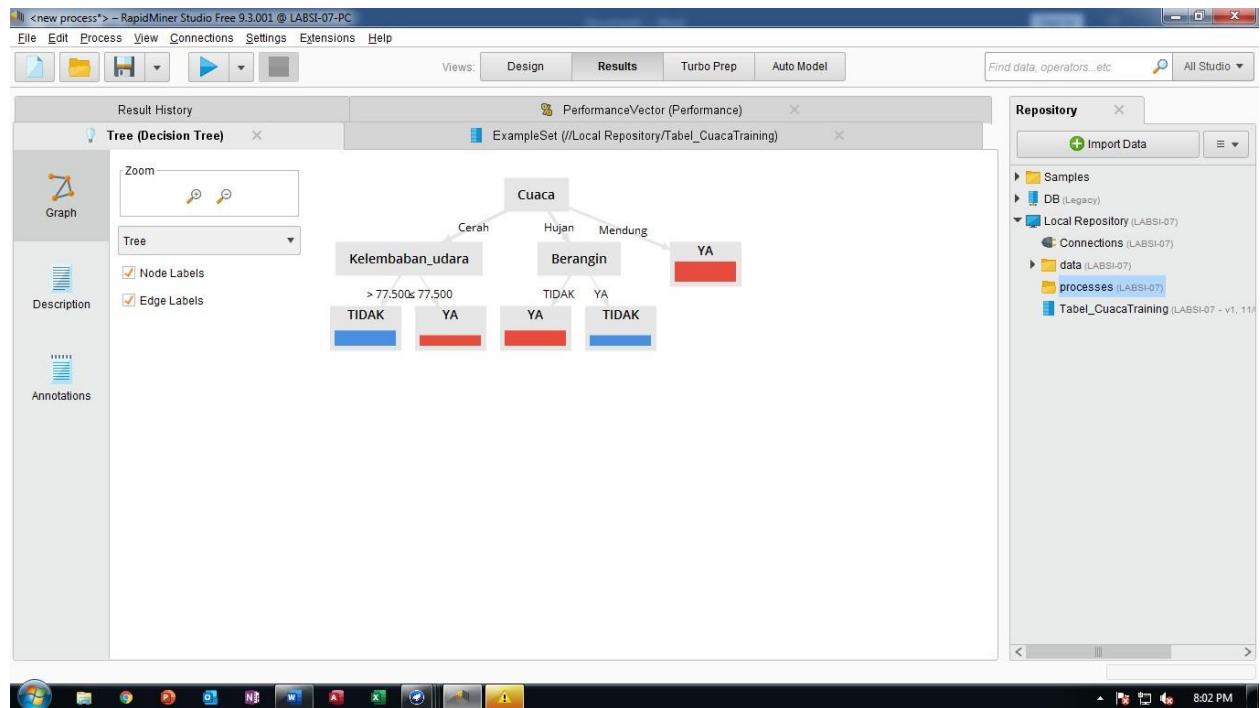
accuracy: 60.00% +/- 45.95% (micro average: 64.29%)

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

PerformanceVector (Performance)

Repository

- Import Data
- Samples
- DB (Legacy)
- Local Repository (LABSI-07)
 - Connections (LABSI-07)
 - data (LABSI-07)
 - processes (LABSI-07)
 - Tabel_CuacaTraining (LABSI-07 - v1, 11/11)



TUGAS

Weka Explorer

Classifier output

```

Time taken to build model: 0 seconds
==== Evaluation on training set ====
Time taken to test model on training data: 0 seconds
==== Summary ====
Correctly Classified Instances      17      85 %
Incorrectly Classified Instances   3       15 %
Kappa statistic                   0.6341
Mean absolute error               0.2436
Root mean squared error           0.349
Relative absolute error            53.0693 %
Root relative squared error       73.1456 %
Coverage of cases (0.95 level)   100 %
Mean rel. region size (0.95 level) 90 %
Total Number of Instances        20
==== Detailed Accuracy By Class ====
TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class
0.571  0.000  1.000  0.571  0.727  0.681  0.791  0.751  TERLAMBAT
1.000  0.429  0.813  1.000  0.897  0.681  0.791  0.816  TEPAT
Weighted Avg.                    0.850  0.279  0.878  0.850  0.837  0.681  0.791  0.793
==== Confusion Matrix ====
a b    <-- classified as
4 3 | a = TERLAMBAT
0 13 | b = TEPAT

```

Status: OK

Weka Classifier Tree Visualizer

```

graph TD
    Gender([Gender]) -- PRIA --> Rerata_SKS_low[≤ 18]
    Gender -- WANITA --> TEPAT_WANITA[TEPAT (5.0/1.0)]
    Rerata_SKS_low --> TERLAMBAT_TERLAMBAT[TERLAMBAT (4.0)]
    Rerata_SKS_low --> TEPAT_TEPAT[TEPAT (11.0/2.0)]

```

RapidMiner Studio Free 9.3.001

Process:

```

    tra --> Decision Tree
    Decision Tree --> Apply Model
    Apply Model --> Performance

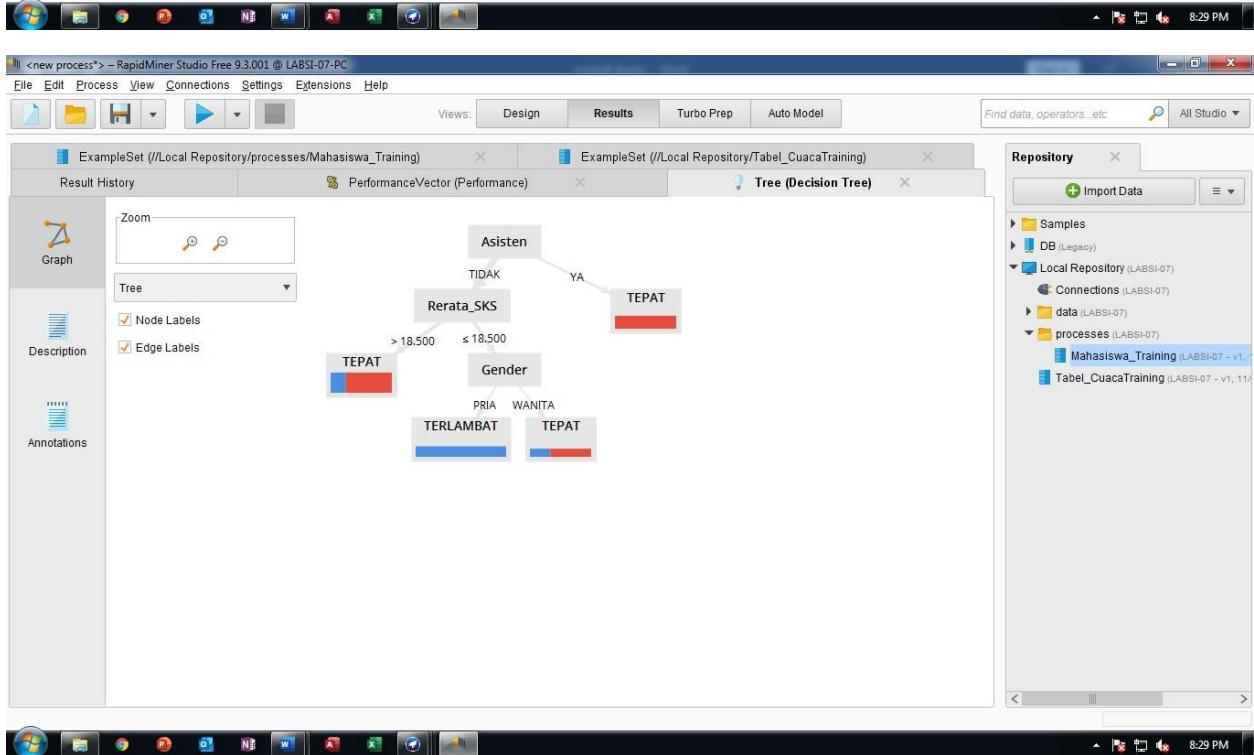
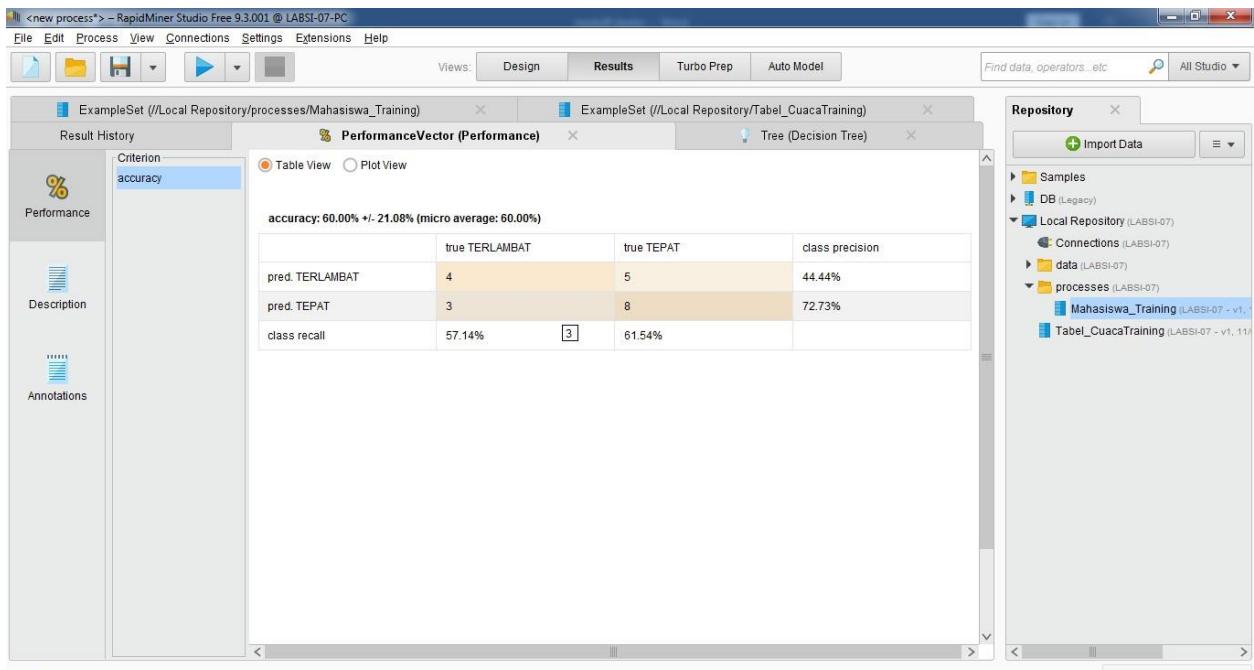
```

Parameters for Decision Tree:

- confidence: 0.1
- apply prepruning: checked
- minimal gain: 0.01
- minimal leaf size: 2
- minimal size for split: 4
- number of prepruning alt...: 3

Help: Decision Tree

Synopsis: This Operator generates a decision tree model, which can be used for classification and regression.



1. Berdasarkan pohon keputusan pada percobaan yang kita buat tadi (menggunakan rapid miner). Isikan nilai kelas atribut Bermain_Tenis pada table Testing berikut :

Cuaca	Suhu	Kelembaban_Udara	Berangin	Bermain_Tenis
Cerah	75	65	TIDAK	YA
Cerah	80	68	YA	YA
Cerah	83	87	YA	TIDAK

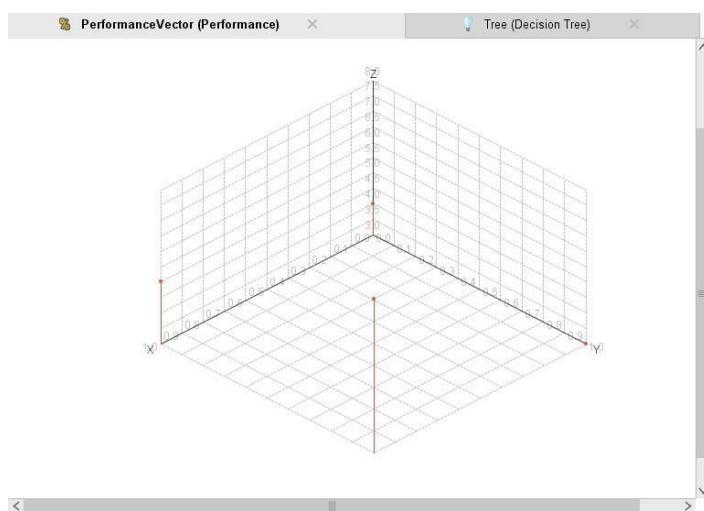
Mendung	70	96	TIDAK	YA
Mendung	68	81	TIDAK	YA
Hujan	65	75	TIDAK	YA
Hujan	64	85	YA	TIDAK

2. berdasarkan pohon keputusan tersebut, dapat dilihat jenis-jenis simpul yang ada sebagai berikut :

- Simpul akar = Asisten
- Simpul internal = Rerata_SKS, Gender
- Simpul daun = TEPAT, TERLAMBAT

3. klasifikasi yang terbentuk adalah :

- Seseorang akan Lama Studi (TEPAT) jika kondisi sebagai berikut :
 - i. Asisten = TIDAK, Rerata_SKS > 18,500.(nilai atribut lain diabaikan)
 - ii. Asisten = TIDAK, Rerata_SKS <= 18.500 Gender(WANITA) = TEPAT (nilai atribut lain diabaikan)
 - iii. Asisten = YA.(nilai atribut lain diabaikan)
- Seseorang akan Lama Studi (TERLAMBAT) jika kondisi sebagai berikut :
 - i. Asisten = TIDAK, Rerata_SKS <= 18.500 Gender (PRIA) = TERLAMBAT (nilai atribut lain diabaikan)



Modul 10

PERCOBAAN

Membuat table data nilai ujian siswa dan disimpan dengan nama file Tabel_NilaiUjian.xls

NO_SISWA	NAMA	B.IND	B.ING
S-101	JOKO	8,54	8,40
S-102	AGUS	9,98	6,81
S-103	SUSI	6,20	9,15
S-104	DYAH	5,24	7,26
S-105	WATI	5,70	5,71
S-106	IKA	8,57	5,87
S-107	EKO	7,70	7,71
S-108	YANTO	6,60	5,70
S-109	WAWAN	9,00	8,12
S-110	MAHMUD	9,81	9,58

Import Data - Format your columns.

Format your columns.

Replace errors with missing values ⓘ

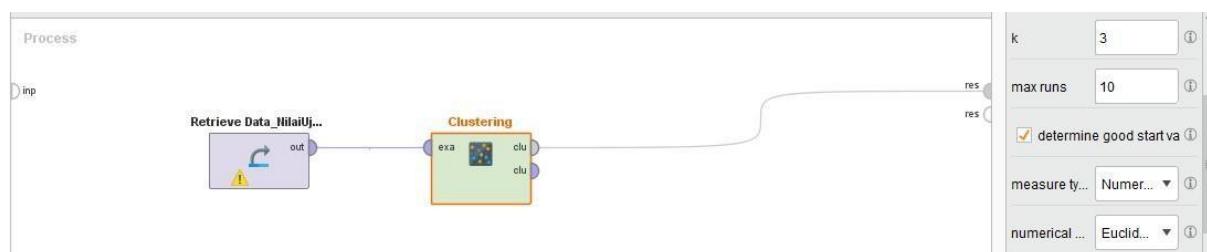
	NAMA <i>polynominal id</i>	B.IND <i>real</i>	B.ING <i>real</i>
1	JOKO	8.540	8.400
2	AGUS	9.980	6.810
3	SUSI	6.200	9.150
4	DYAH	5.240	7.260
5	WATI	5.700	5.710
6	IKA	8.570	5.870
7	EKO	7.700	7.710
8	YANTO	6.600	5.700
9	WAWAN	9.000	8.120
10	MAHMUD	9.810	9.580

 no problems.

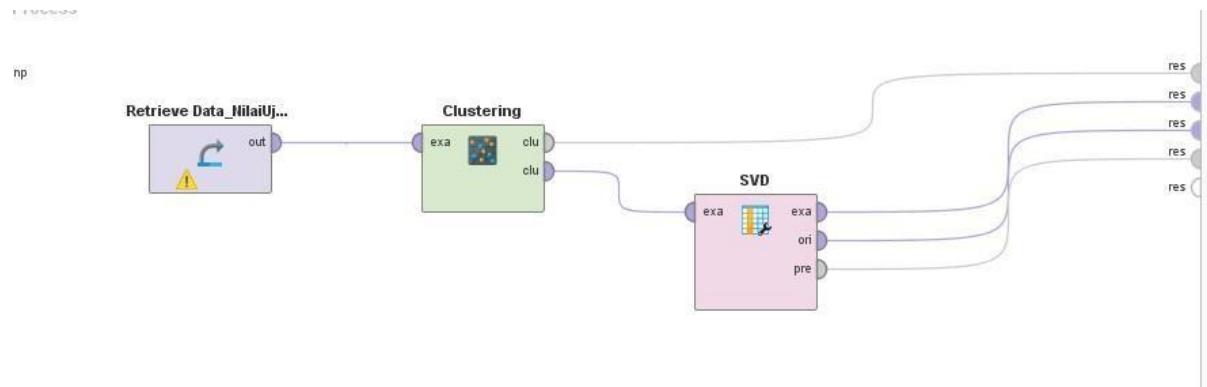
 Previous  Next  Cancel

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

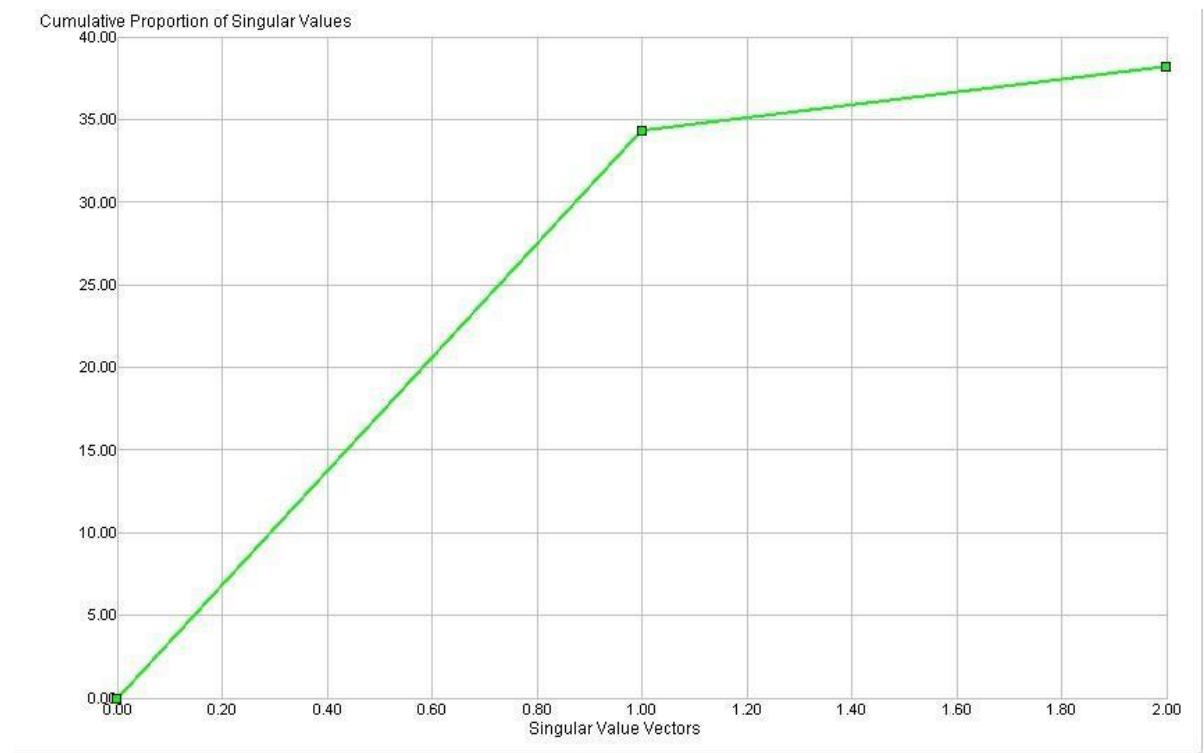
Tambahkan operator –means. Hubungkan output operator retrieve ke entry exa operator ini dan output clu(cluster model) dihubungkan ke connector res panel. Ubah nilai parameter k =3 pada operator ini .

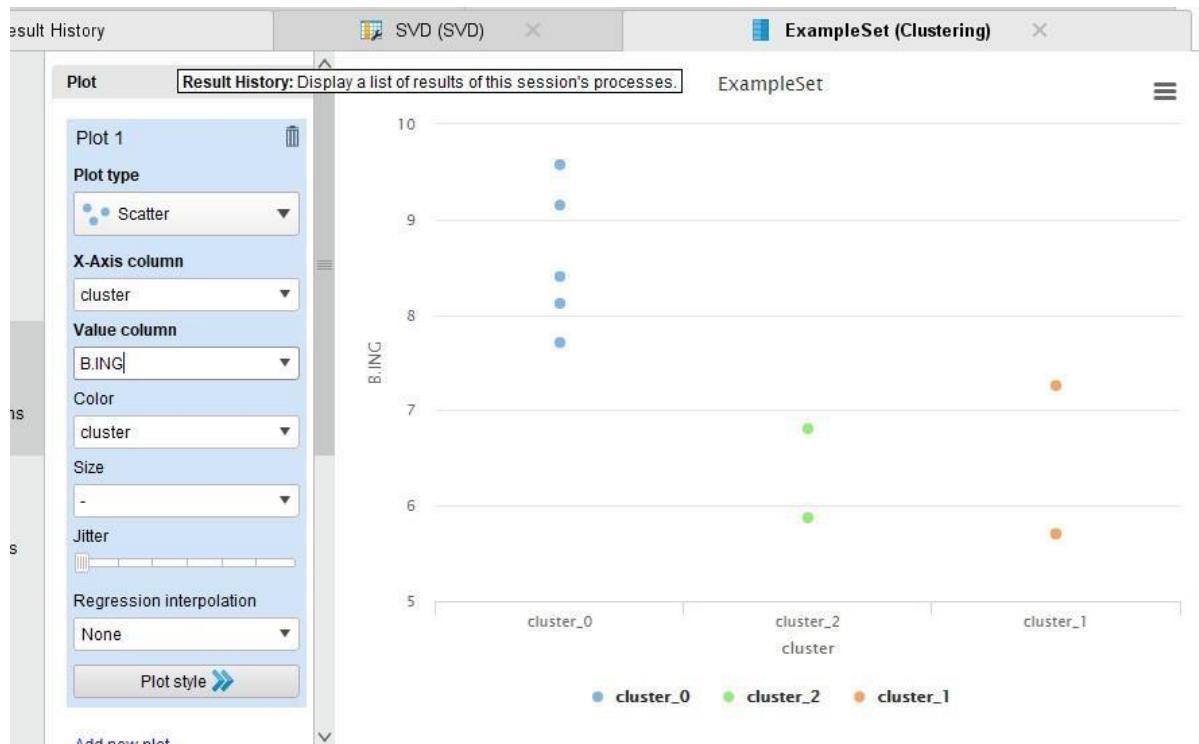
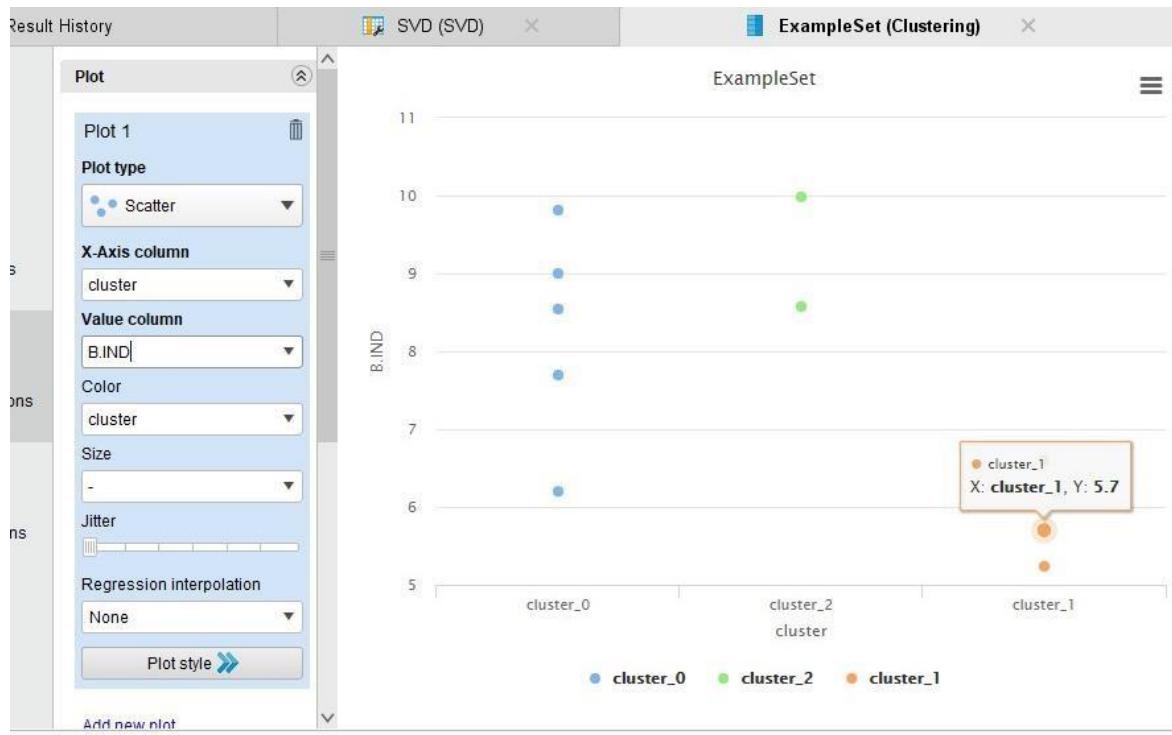


Tambahkan operator SVD. Lalu hubungkan output clu ke-2 operator clustering (k-means) kedalam entry exa operator SVD dan 3 port output exa,ori, dan pre terhadap konektor



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





ExampleSet (SVD) X

Open in Turbo Prep Auto Model

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

Cluster Model

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

TUGAS

The screenshot shows a Microsoft Excel spreadsheet titled "Tugas_NilaiUjian - Excel". The table has columns labeled NO, SISWI/NAMA, B.IND, B.ING, MTK, and IPA. The data starts from row 1 and ends at row 23. The last row contains the formula =SUM(B2:B23) in column B and =AVERAGE(B2:B23) in column C.

NO	SISWI/NAMA	B.IND	B.ING	MTK	IPA
2	S-101 JOKO	7.27	8.70	7.27	6.13
3	S-102 AGUS	8.77	9.56	6.25	9.33
4	S-103 SUSI	6.34	9.95	7.16	8.04
5	S-104 DYAH	8.51	7.91	8.62	5.06
6	S-105 WATI	8.90	8.16	5.35	5.15
7	S-106 IKHA	8.86	6.92	6.22	6.98
8	S-107 EKO	7.82	9.43	9.54	7.82
9	S-108 YANTO	7.92	8.58	6.53	5.49
10	S-109 WAHAN	7.61	8.89	7.63	9.43
11	S-110 MAHMUD	9.98	9.31	6.36	6.83
12	S-111 BUDI	8.92	7.86	5.13	9.64
13	S-112 SANTI	6.60	5.27	6.52	7.01
14	S-113 DIAN	5.78	6.15	7.76	8.18
15	S-114 DANI	7.87	5.73	7.18	9.69
16	S-115 AHMAD	9.36	6.00	5.93	9.87
17	S-116 BAYU	7.03	8.95	9.48	7.58
18	S-117 RISA	5.44	8.54	8.48	7.01
19	S-118 RANI	9.94	7.92	6.25	9.96
20	S-119 YANI	9.19	8.46	6.28	6.67
21	S-120 RATIH	6.76	6.86	9.51	9.63
22	S-121 INDAH	7.44	9.98	7.51	9.26
23	S-122 JONO	5.38	8.90	5.68	7.27

The screenshot shows a Microsoft Excel spreadsheet titled "Tugas_NilaiUjian - Excel". The table has columns labeled NO, SISWI/NAMA, B.IND, B.ING, MTK, and IPA. The data starts from row 10 and ends at row 32. The last row contains the formula =SUM(B10:B32) in column B and =AVERAGE(B10:B32) in column C.

NO	SISWI/NAMA	B.IND	B.ING	MTK	IPA
10	S-109 WAHAN	7.61	8.89	7.63	9.43
11	S-110 MAHMUD	9.98	9.31	6.36	6.83
12	S-111 BUDI	8.92	7.86	5.13	9.64
13	S-112 SANTI	6.60	5.27	6.52	7.01
14	S-113 DIAN	5.78	6.15	7.76	8.18
15	S-114 DANI	7.87	5.73	7.18	9.69
16	S-115 AHMAD	9.36	6.00	5.93	9.87
17	S-116 BAYU	7.03	8.95	9.48	7.58
18	S-117 RISA	5.44	8.54	8.48	7.01
19	S-118 RANI	9.94	7.92	6.25	9.96
20	S-119 YANI	9.19	8.46	6.28	6.67
21	S-120 RATIH	6.76	6.86	9.51	9.63
22	S-121 INDAH	7.44	9.98	7.51	9.26
23	S-122 JONO	5.38	8.90	5.68	7.27
24	S-123 SARAH	9.15	9.44	5.51	5.23
25	S-124 RAMA	9.10	9.21	9.38	9.87
26	S-125 BAMBANG	8.93	5.31	7.69	7.41
27	S-126 HADI	6.33	8.62	7.30	7.13
28	S-127 NANA	7.77	8.78	9.14	8.91
29	S-128 FEBRI	5.17	6.24	8.23	6.05
30	S-129 DENI	6.85	6.14	6.02	9.05
31	S-130 TONI	8.52	6.97	6.20	8.89
32					

Import Data - Select the cells to import.

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

A	B	C	D	E	F
1 NO_SISWA	NAMA	B.IND	B.ING	MTK	IPA
2 S-101	JOKO	8.539	6.567	9.449	9.215
3 S-102	AGUS	5.776	8.886	7.732	9.415
4 S-103	SUSI	6.645	8.298	8.325	8.316
5 S-104	DYAH	8.107	5.296	6.875	8.634
6 S-105	WATI	6.677	6.567	9.874	5.651
7 S-106	IKA	8.936	9.169	7.397	8.028
8 S-107	EKO	9.942	5.245	5.382	7.707
9 S-108	YANTO	6.992	8.864	9.700	8.303
10 S-109	WAWAN	7.822	5.819	6.172	6.732
11 S-110	MAHMUD	8.961	7.956	6.150	9.556
12 S-111	BUDI	9.005	8.761	7.990	9.629
13 S-112	SANTI	9.548	6.317	9.960	6.244
14 S-113	DIAN	9.610	9.605	5.374	9.113
15 S-114	RAMI	6.666	7.666	6.666	6.667

Activate Wisdom of Crowds Previous Next Cancel

Import Data - Format your columns.

Replace errors with missing values

NAMA	B.IND	B.ING	MTK	IPA
JOKO	8.539	6.567	9.449	9.215
AGUS	5.776	8.886	7.732	9.415
SUSI	6.645	8.298	8.325	8.316
DYAH	8.107	5.296	6.875	8.634
WATI	6.677	6.567	9.874	5.651
IKA	8.936	9.169	7.397	8.028
EKO	9.942	5.245	5.382	7.707
YANTO	6.992	8.864	9.700	8.303
WAWAN	7.822	5.819	6.172	6.732
MAHMUD	8.961	7.956	6.150	9.556
BUDI	9.005	8.761	7.990	9.629
SANTI	9.548	6.317	9.960	6.244
DIAN	9.610	9.605	5.374	9.113

no problems Previous Next Cancel

RapidMiner Studio Free 9.3.001 @ LABSI-21-PC

File Edit Process View Connections Settings Extensions Help

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

Result History ExampleSet (/Local Repository/Data_NilaiUjian) ExampleSet (/Local Repository/Data_Tugas_NilaiUjian)

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

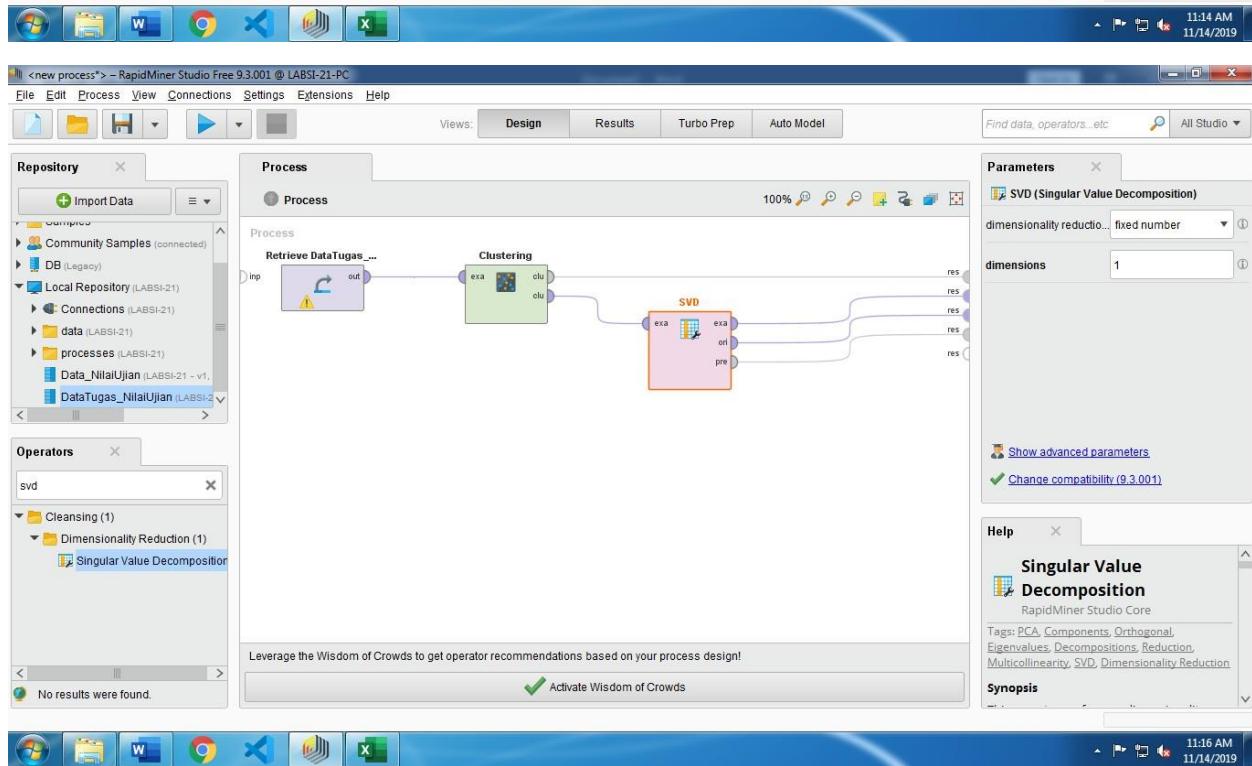
Data Statistics Visualizations Annotations

Row No.	NAMA	B.IND	B.ING	MTK	IPA
1	JOKO	8.539	6.567	9.449	9.215
2	AGUS	5.776	8.886	7.732	9.415
3	SUSI	6.845	8.298	8.325	8.316
4	DYAH	8.107	5.296	6.875	8.634
5	WATI	6.677	6.567	9.874	5.651
6	IKA	8.936	9.169	7.397	8.028
7	EKO	9.942	5.245	5.382	7.707
8	YANTO	6.992	8.864	9.700	8.303
9	WAWAN	7.822	5.819	6.172	6.732
10	MAHMUD	8.961	7.956	6.150	9.556
11	BUDI	9.005	8.761	7.990	9.629
12	SANTI	9.548	6.317	9.960	6.244
13	DIAN	9.610	9.605	5.374	9.113
14	DANI	5.293	7.863	6.338	6.427

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

Repository

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-21)
 - Connections (LABSI-21)
 - data (LABSI-21)
 - processes (LABSI-21)
 - Data_NilaiUjian (LABSI-21 - v1, 11/14/19)
 - DataTugas_NilaiUjian (LABSI-21 - v1, 11/14/19)



RapidMiner Studio Free 9.3.001 @ LABSI-21-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/Data_NilaiUjian) Cluster Model (Clustering) ExampleSet (/Local Repository/Data_Tugas_NilaiUjian) ExampleSet (Clustering) ExampleSet (SVD)

Result History SVD (SVD)

Eigenvalues

Component	Singular Value	Proportion of Singular Values	Cumulative Singular Values	Cumulative Proportion of Sin...
SVD 1	82.634	0.777	82.634	0.777
SVD 2	8.997	0.085	91.632	0.861
SVD 3	8.231	0.077	99.863	0.939
SVD 4	6.519	0.061	106.382	1.000

Svd vectors

Cumulative Variance

Annotations

Repository

- Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB (Legacy)
- Local Repository (LABSI-21)
 - Connections (LABSI-21)
 - data (LABSI-21)
 - processes (LABSI-21)
 - Data_NilaiUjian (LABSI-21 - v1, 11/14/19)
 - DataTugas_NilaiUjian (LABSI-21 - v1, 11/14/19)

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RapidMiner Studio Free 9.3.001 @ LABSI-21-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/Data_NilaiUjian) Cluster Model (Clustering) ExampleSet (/Local Repository/Data_Tugas_NilaiUjian) ExampleSet (Clustering) ExampleSet (SVD)

Result History SVD (SVD)

Eigenvalues

Cumulative Proportion of Singular Values

Singular Value Vectors	Cumulative Proportion (%)
0.00	0.00
1.00	82.634
2.00	91.632
3.00	99.863
4.00	106.382

Svd vectors

Cumulative Variance

Annotations

Repository

- Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB (Legacy)
- Local Repository (LABSI-21)
 - Connections (LABSI-21)
 - data (LABSI-21)
 - processes (LABSI-21)
 - Data_NilaiUjian (LABSI-21 - v1, 11/14/19)
 - DataTugas_NilaiUjian (LABSI-21 - v1, 11/14/19)

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Clustering

RapidMiner Studio Free 9.3.001 @ LABSI-21-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

Training Resources (connected)

Samples

Community Samples (connected)

DB (Legacy)

Local Repository (LABSI-21)

- Connections (LABSI-21)
- data (LABSI-21)
- processes (LABSI-21)
 - Data_NilaiUjian (LABSI-21 - v1, 11/14/19)
 - DataTugas_NilaiUjian (LABSI-21 - v1, 11/14/19)

Result History

ExampleSet (Clustering) ExampleSet (Clustering) ExampleSet (SVD)

ExampleSet (Clustering)

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

Row No.	NAMA	cluster ↑	BJND	BJNG	MTK	IPA
1	JOKO	cluster_0	8.539	6.567	9.449	9.215
5	WATI	cluster_0	6.677	6.567	9.874	5.651
12	SANTI	cluster_0	9.548	6.317	9.960	6.244
17	RISA	cluster_0	8.388	6.210	8.449	6.110
19	YANI	cluster_0	6.680	5.771	9.659	7.997
22	JONO	cluster_0	6.126	6.444	9.329	8.351
25	BAMBANG	cluster_0	7.376	8.635	9.196	5.485
27	NANA	cluster_0	8.789	6.017	7.791	5.717
6	IKA	cluster_1	8.936	9.169	7.397	8.028
7	EKO	cluster_1	9.942	5.245	5.382	7.707
10	MAHMUD	cluster_1	8.961	7.956	6.150	9.556
11	BUDI	cluster_1	9.005	8.761	7.990	9.629
13	DIAN	cluster_1	9.610	9.605	5.374	9.113

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



RapidMiner Studio Free 9.3.001 @ LABSI-21-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

Training Resources (connected)

Samples

Community Samples (connected)

DB (Legacy)

Local Repository (LABSI-21)

- Connections (LABSI-21)
- data (LABSI-21)
- processes (LABSI-21)
 - Data_NilaiUjian (LABSI-21 - v1, 11/14/19)
 - DataTugas_NilaiUjian (LABSI-21 - v1, 11/14/19)

Result History

ExampleSet (Clustering) ExampleSet (Clustering) ExampleSet (SVD)

ExampleSet (Clustering)

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

Row No.	NAMA	cluster ↑	BJND	BJNG	MTK	IPA
20	RATIH	cluster_1	9.670	5.433	5.934	9.384
2	AGUS	cluster_2	5.776	8.886	7.732	9.415
3	SUSI	cluster_2	6.645	8.298	8.325	8.316
8	YANTO	cluster_2	6.992	8.864	9.700	8.303
16	BAYU	cluster_2	5.999	9.548	8.045	6.982
21	INDAH	cluster_2	8.099	8.900	8.068	7.387
24	RAMA	cluster_2	5.149	8.404	9.899	8.514
29	DENI	cluster_2	6.194	9.842	5.678	8.868
4	DYAH	cluster_3	8.107	5.296	6.875	8.634
9	WAWAN	cluster_3	7.822	5.819	6.172	6.732
14	DANI	cluster_3	5.293	7.863	6.338	6.427
15	AHMAD	cluster_3	5.937	7.036	7.433	9.191
18	RANI	cluster_3	5.584	7.229	5.472	5.653

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



<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-21-PC

File Edit Process View Connections Settings Extensions Help

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

Result History ExampleSet (Clustering) ExampleSet (SVD)

Data Statistics Visualizations Annotations

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

Row No.	NAMA	cluster ↑	B.IND	B.ING	MTK	IPA
16	BAYU	cluster_2	5.999	9.548	8.045	6.962
21	INDAH	cluster_2	8.099	8.900	8.068	7.387
24	RAMA	cluster_2	5.149	8.404	9.899	8.514
29	DENI	cluster_2	6.194	9.842	5.678	8.868
4	DYAH	cluster_3	8.107	5.296	6.875	8.634
9	WAWAN	cluster_3	7.822	5.819	6.172	6.732
14	DANI	cluster_3	5.293	7.863	6.338	6.427
15	AHMAD	cluster_3	5.937	7.036	7.433	9.191
18	RANI	cluster_3	5.584	7.229	5.472	5.653
23	SARAH	cluster_3	6.115	5.090	6.079	8.446
26	HADI	cluster_3	5.349	5.755	5.384	5.948
28	FEBRI	cluster_3	7.364	6.687	6.884	8.179
30	TONI	cluster_3	6.065	5.883	7.139	9.295

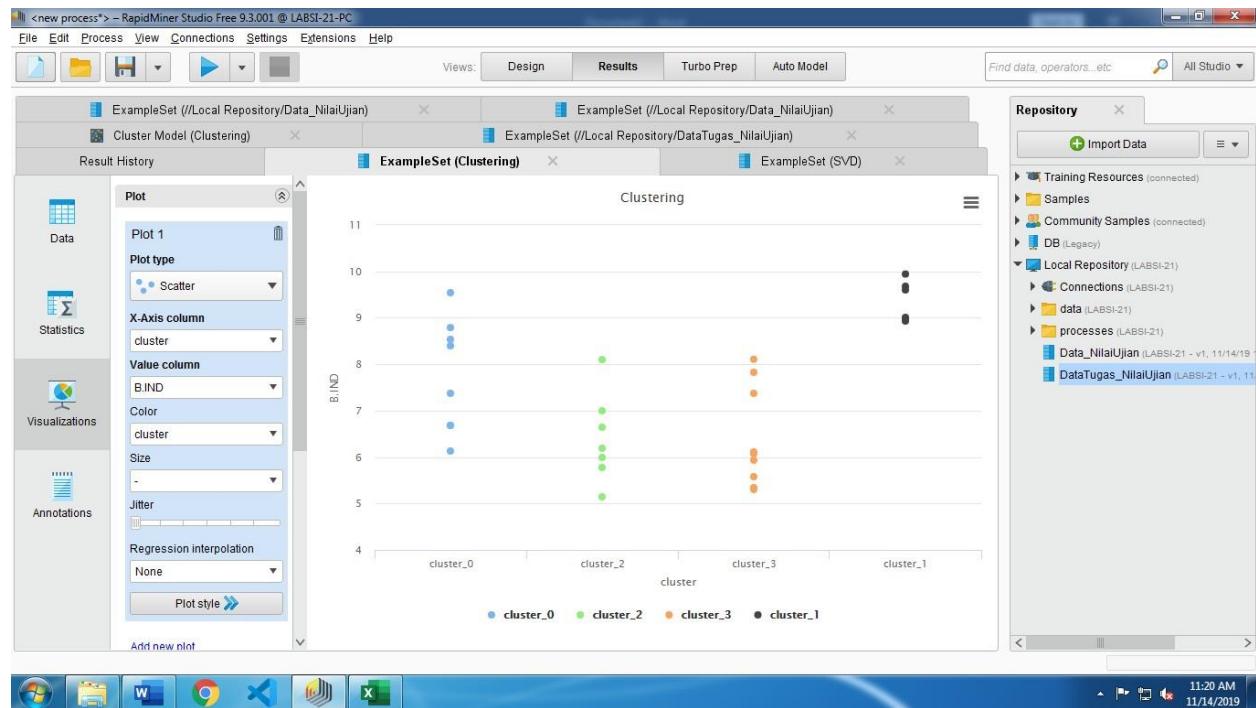
ExampleSet (30 examples, 2 special attributes, 4 regular attributes)

Repository Import Data

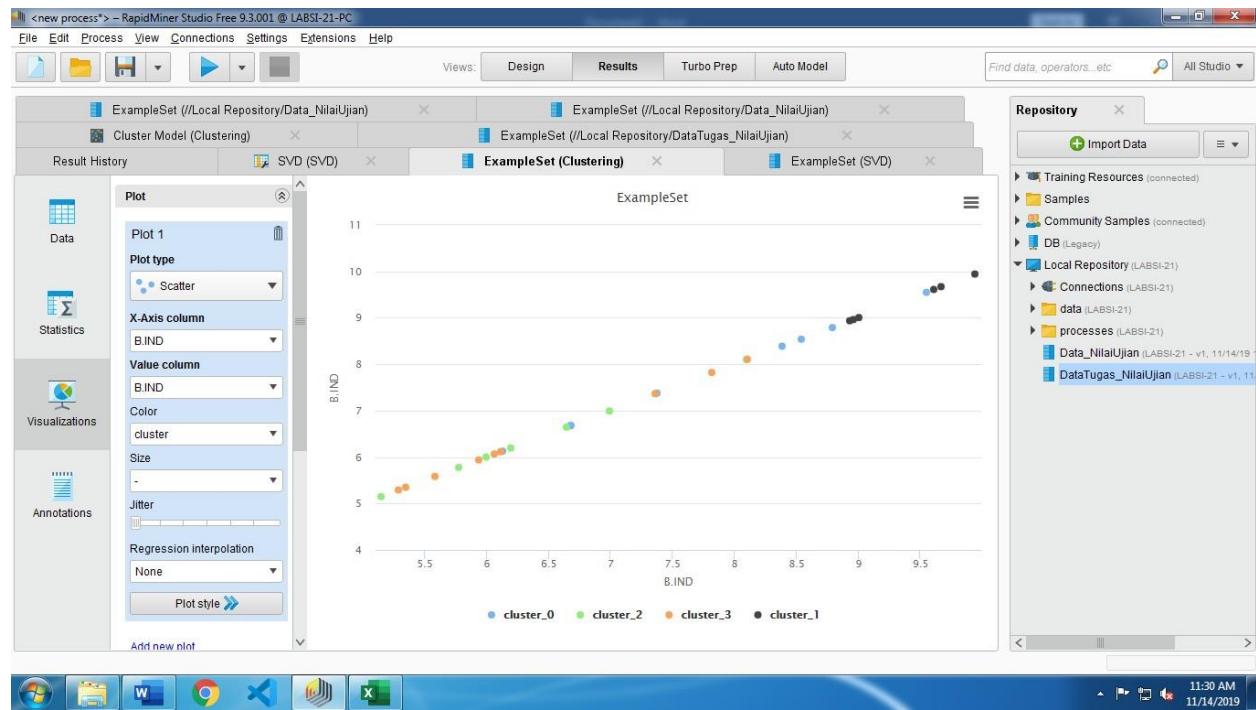
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-21)
 - Connections (LABSI-21)
 - data (LABSI-21)
 - processes (LABSI-21)
 - Data_NilaiUjian (LABSI-21 - v1, 11/14/19)
 - DataTugas_NilaiUjian (LABSI-21 - v1, 11/14/19)

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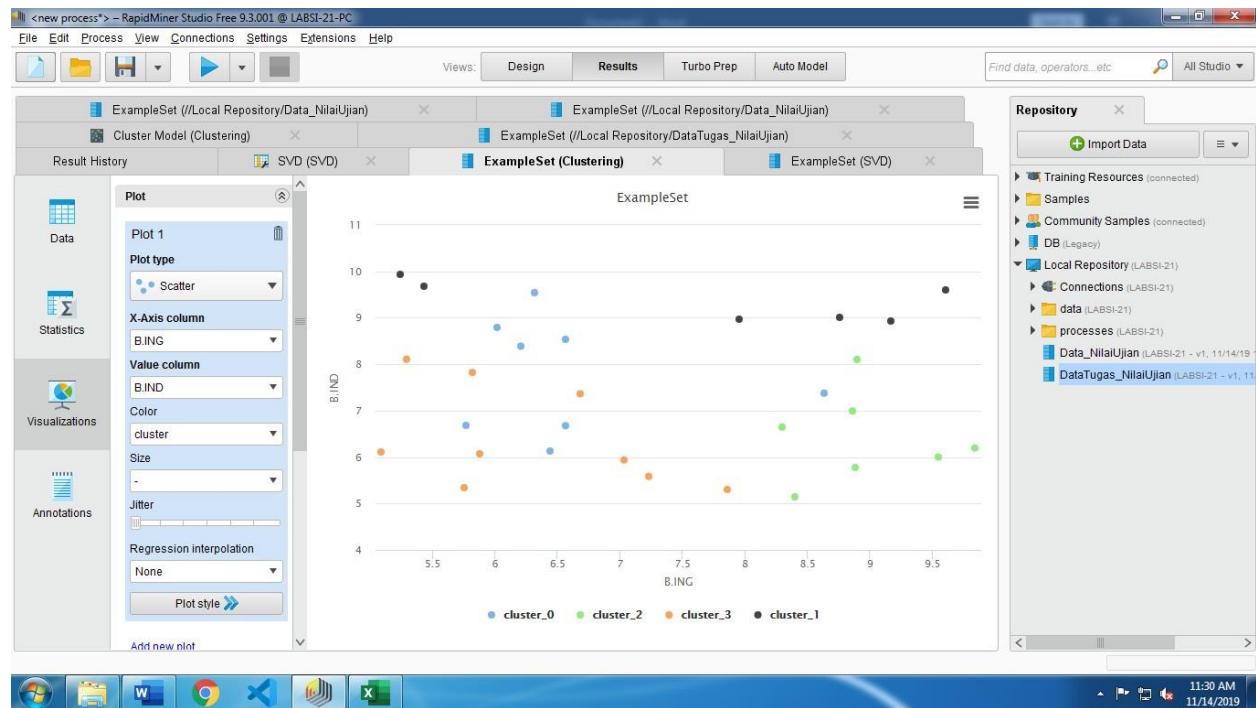
Cluster



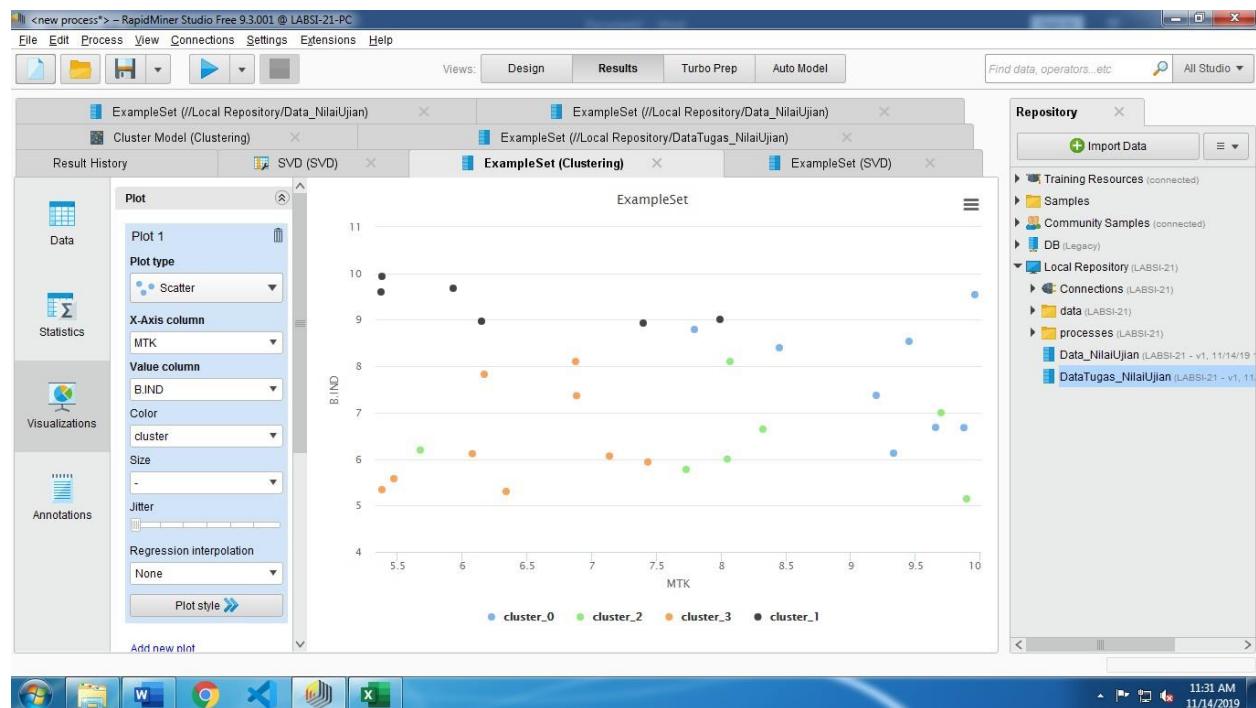
B.IND



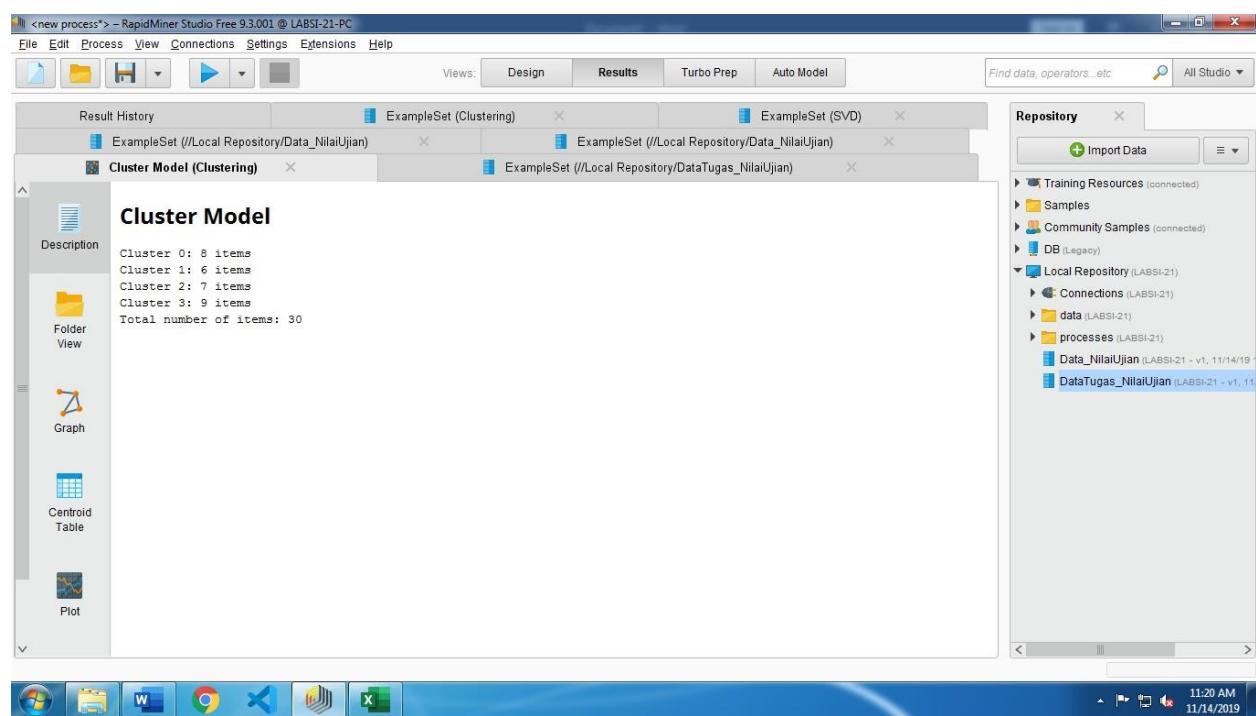
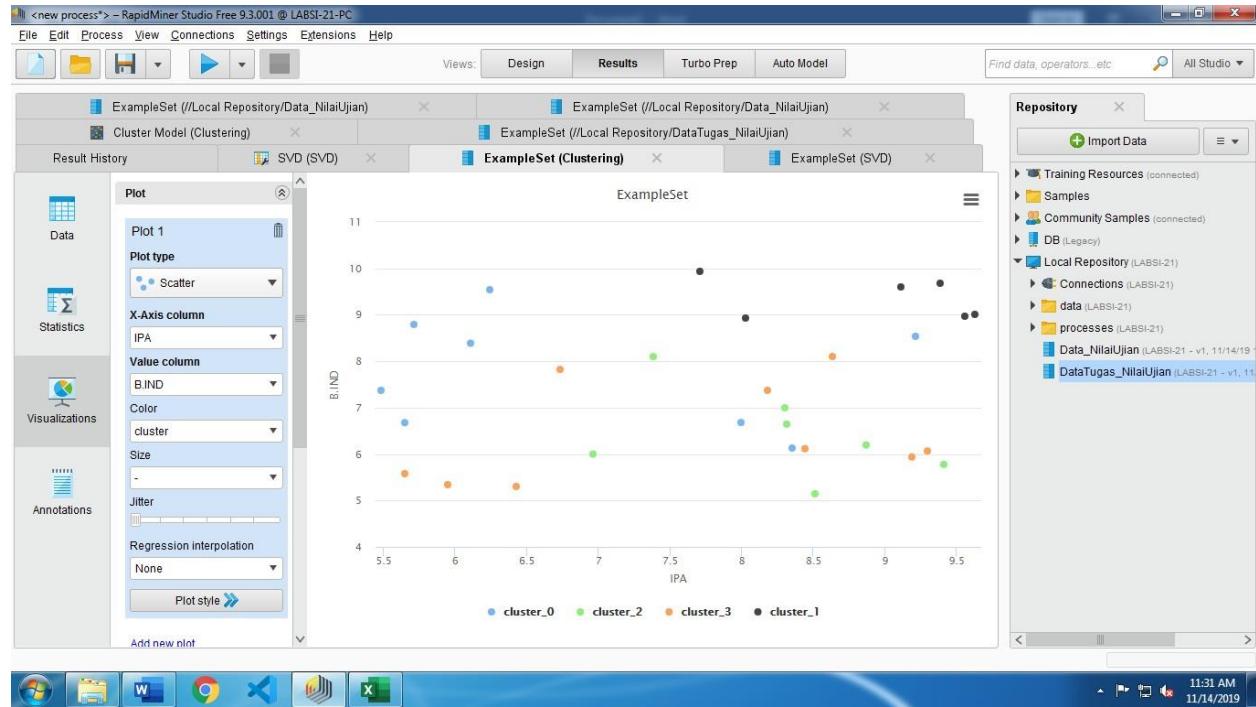
B.ING



MTK



IPA



Modul 11

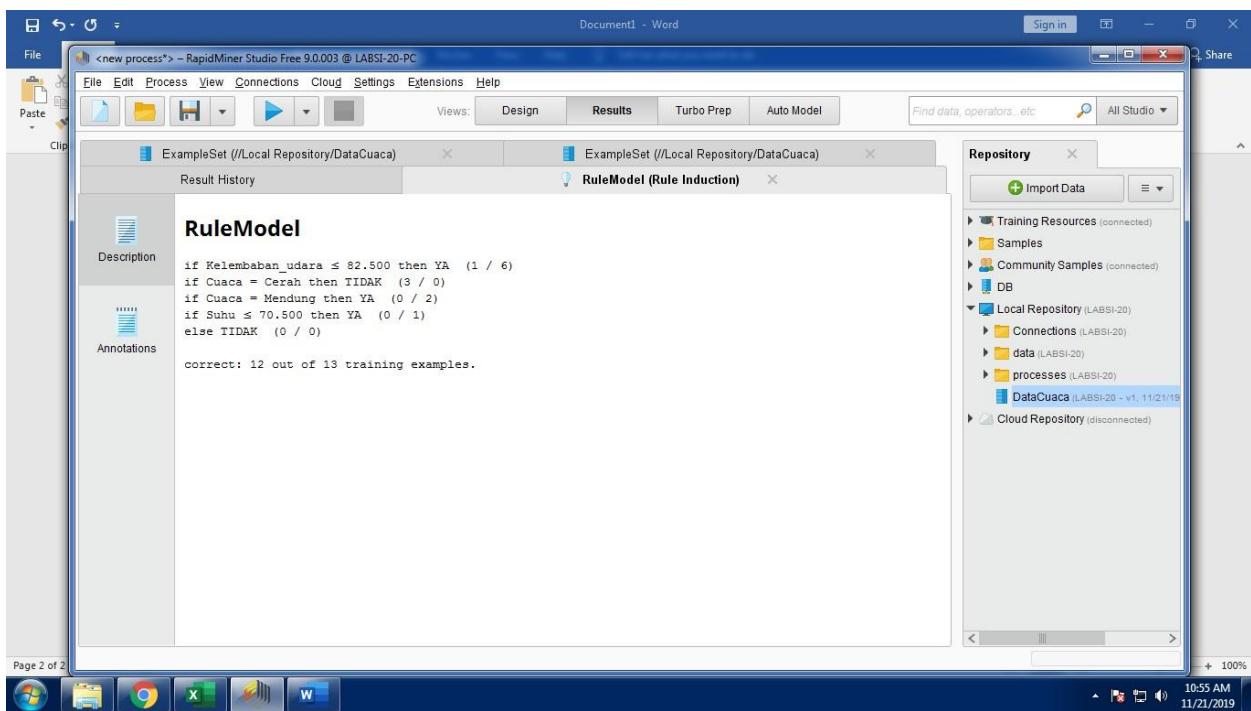
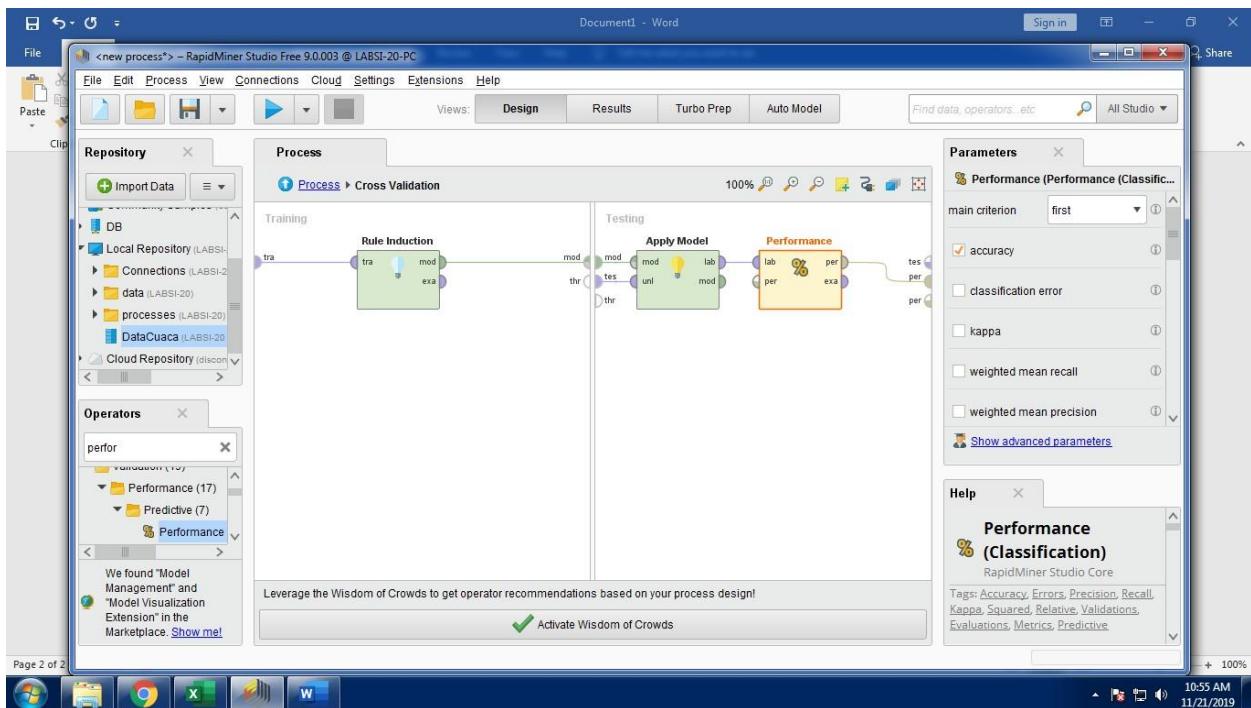
PERCOBAAN

The screenshot shows the RapidMiner Studio interface with the 'Format your columns' dialog box open. The dialog box contains a table with five columns: Cuaca (nominal), Suhu (integer), Kelembaban_u... (integer), Berangin (binomial), and Bermain_Tenis (binomial). The data rows show various weather conditions and their corresponding values. A green checkmark at the bottom right indicates 'no problems.'

	Cuaca nominal	Suhu integer	Kelembaban_u... integer	Berangin binomial	Bermain_Tenis binomial
1	Cerah	85	85	TIDAK	TIDAK
2	Cerah	80	90	YA	TIDAK
3	Mendung	83	86	TIDAK	YA
4	Hujan	70	96	TIDAK	YA
5	Hujan	68	80	TIDAK	YA
6	Hujan	65	70	YA	TIDAK
7	Mendung	64	65	YA	YA
8	Cerah	72	95	TIDAK	TIDAK
9	Cerah	69	70	TIDAK	YA
10	Hujan	75	80	TIDAK	YA
11	Cerah	75	70	YA	YA
12	Mendung	72	90	YA	YA
13	Mendung	81	76	TIDAK	YA
14	Hujan	71	91	YA	TIDAK

The screenshot shows the RapidMiner Studio interface with the 'ExampleSet' view open. The view displays a table with six columns: Row No., Cuaca, Suhu, Kelembaban_u..., Berangin, and Bermain_Tenis. The data is identical to the one in the previous screenshot. The repository sidebar on the right shows the Local Repository (LABSI-20) is connected.

Row No.	Cuaca	Suhu	Kelembaban_u...	Berangin	Bermain_Tenis
1	Cerah	85	85	TIDAK	TIDAK
2	Cerah	80	90	YA	TIDAK
3	Mendung	83	86	TIDAK	YA
4	Hujan	70	96	TIDAK	YA
5	Hujan	68	80	TIDAK	YA
6	Hujan	65	70	YA	TIDAK
7	Mendung	64	65	YA	YA
8	Cerah	72	95	TIDAK	TIDAK
9	Cerah	69	70	TIDAK	YA
10	Hujan	75	80	TIDAK	YA
11	Cerah	75	70	YA	YA
12	Mendung	72	90	YA	YA
13	Mendung	81	75	TIDAK	YA
14	Hujan	71	91	YA	TIDAK



Document1 - Word

<new process> - RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

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/DataCuaca) ExampleSet (/Local Repository/DataCuaca)

RuleModel (Rule Induction) ExampleSet (/Local Repository/DataCuaca)

Result History PerformanceVector (Performance)

Criterion accuracy

Table View Plot View

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

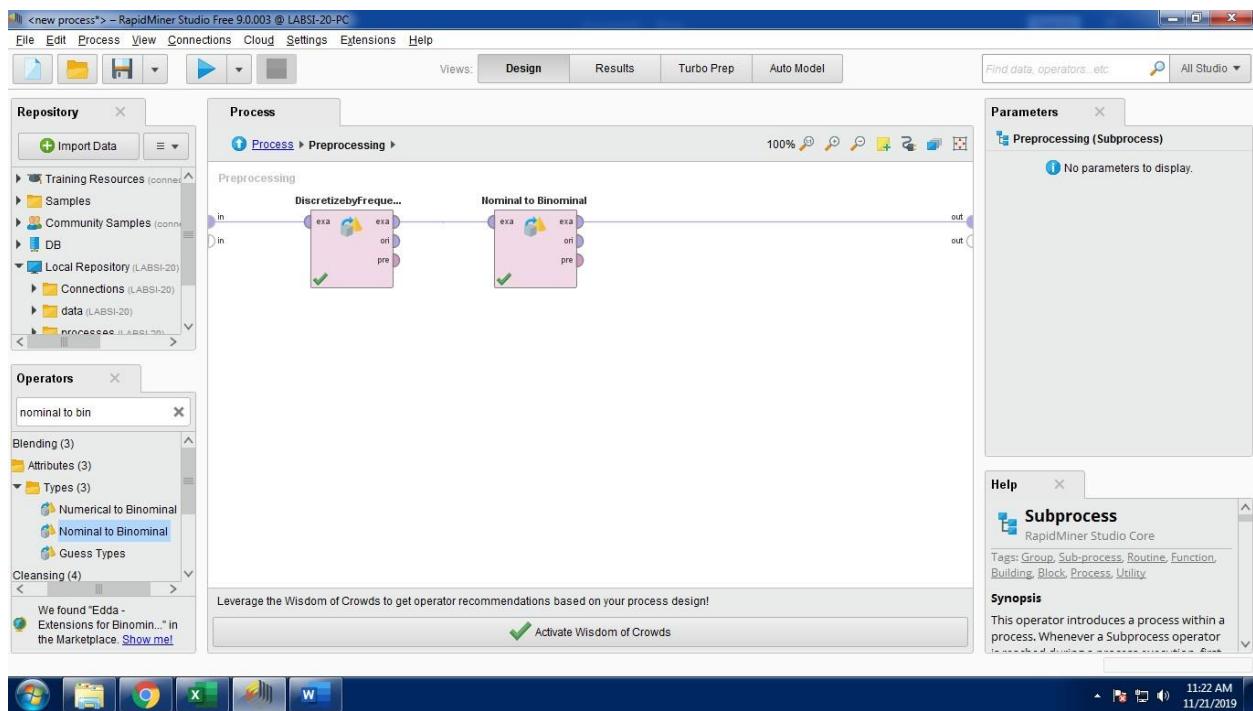
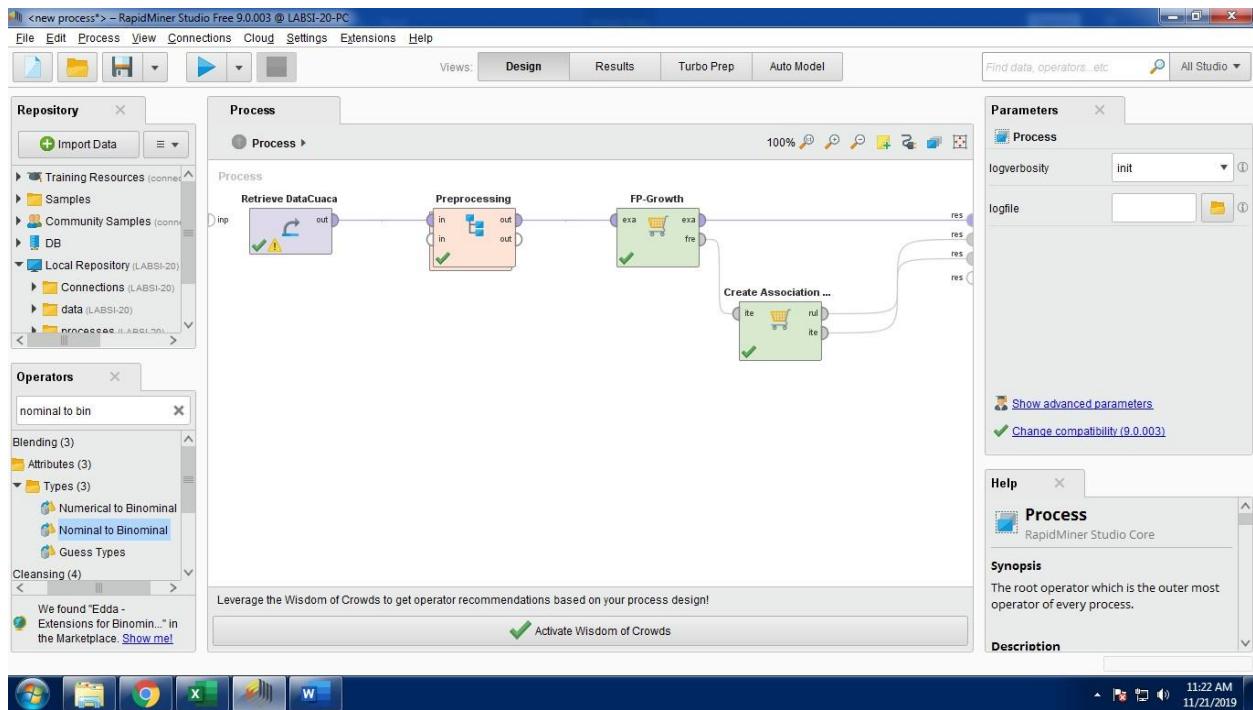
	true TIDAK	true YA	class precision
pred. TIDAK	2	1	66.67%
pred. YA	3	8	72.73%
class recall	40.00%	88.89%	

Performance Description Annotations

Repository

- + Import Data
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20 - v1, 11/21/19)
- Cloud Repository (disconnected)

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RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators... etc. All Studio

Repository

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20 - v1, 11/21/19 11:06 AM - 527)
- Cloud Repository (disconnected)

Result History

AssociationRules (Create Association Rules) FrequentItemSets (FP-Growth)

Data

Annotations

No. of Sets: 26 Total Max. Size: 4

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		

Update View

RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators... etc. All Studio

Repository

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20 - v1, 11/21/19 11:06 AM - 527)
- Cloud Repository (disconnected)

Result History

AssociationRules (Create Association Rules) FrequentItemSets (FP-Growth)

Data

Annotations

No. of Sets: 26 Total Max. Size: 4

Size	Support	Item 1	Item 2	Item 3	Item 4
1	0.710	Berangin	Suhu		
2	0.143	Berangin	Cuaca = Cerah		
2	0.143	Berangin	Cuaca = Hujan		
2	0.143	Berangin	Cuaca = Mendung		
2	0.214	Suhu	Cuaca = Cerah		
2	0.071	Suhu	Cuaca = Hujan		
2	0.143	Suhu	Cuaca = Mendung		
3	0.071	Kelembaban_udara	Berangin	Suhu	
3	0.071	Kelembaban_udara	Berangin	Cuaca = Cerah	
3	0.071	Kelembaban_udara	Berangin	Cuaca = Hujan	
3	0.071	Kelembaban_udara	Berangin	Cuaca = Mendung	
3	0.143	Kelembaban_udara	Suhu	Cuaca = Cerah	
3	0.071	Kelembaban_udara	Suhu	Cuaca = Mendung	
3	0.143	Berangin	Suhu	Cuaca = Cerah	
4	0.071	Kelembaban_udara	Berangin	Suhu	Cuaca = Cerah

Update View

RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

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/DataCuaca) ExampleSet (/Local Repository/DataCuaca) ExampleSet (/Local Repository/DataCuaca) ExampleSet (Nominal to Binomial)

Result History AssociationRules (Create Association Rules) FrequentItemSets (FP-Growth)

Data

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

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

Min. Criterion: confidence Min. Criterion Value:

Repository

- Training Resources
- Samples
- Community Samples
- DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20)
- Cloud Repository (Cloud)

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RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

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/DataCuaca) ExampleSet (/Local Repository/DataCuaca) ExampleSet (/Local Repository/DataCuaca) ExampleSet (Nominal to Binomial)

Result History AssociationRules (Create Association Rules) FrequentItemSets (FP-Growth)

Data

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

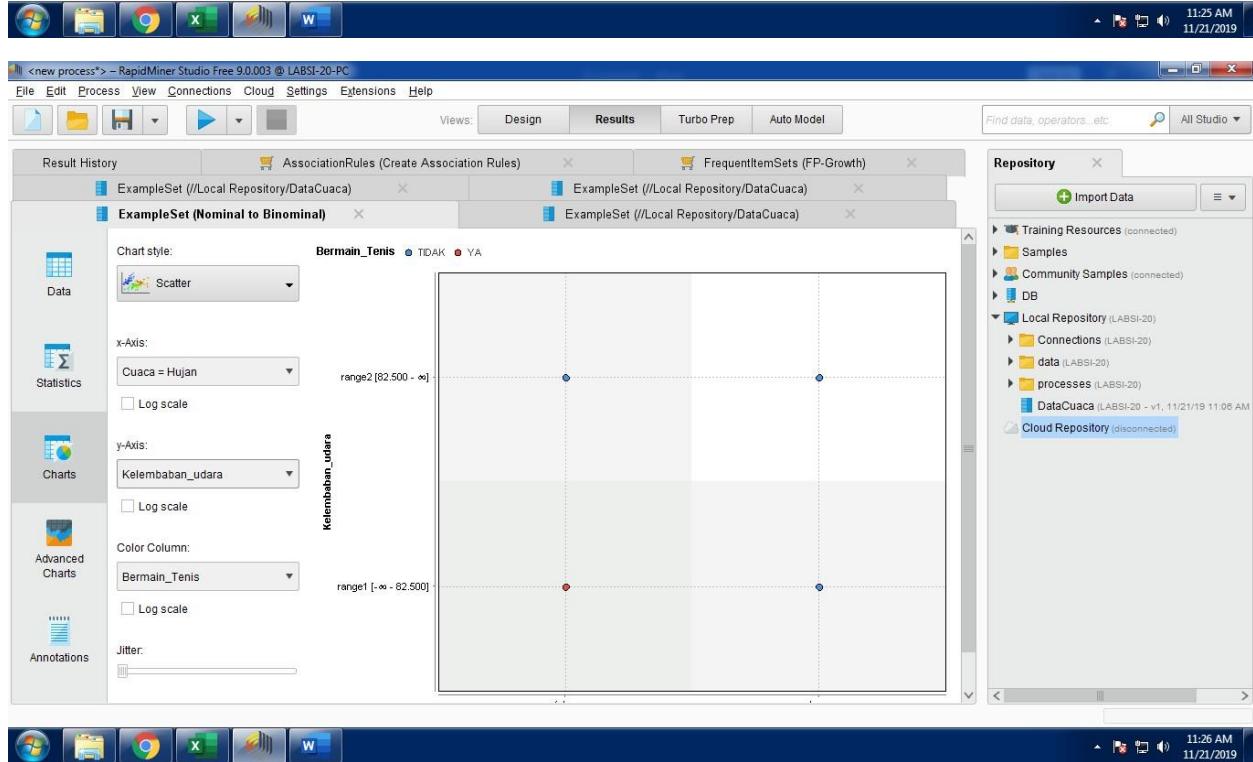
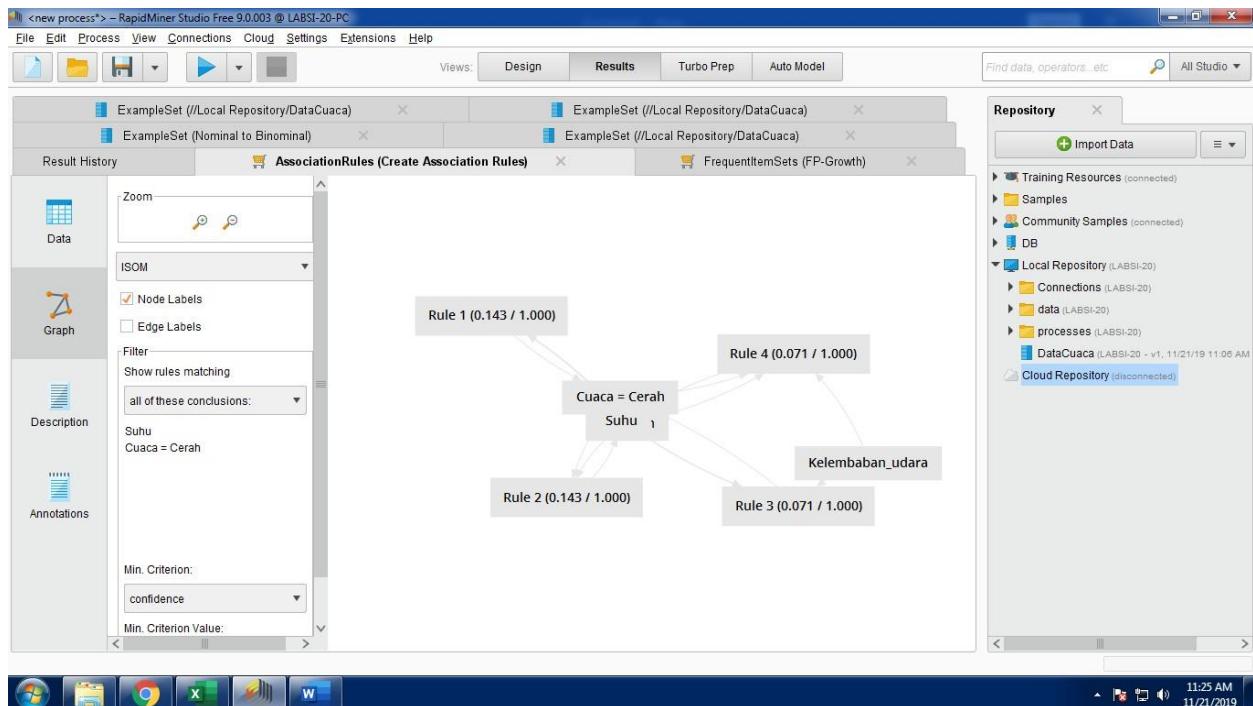
Conclusion	Support	Confidence	LaPlace	Gain	p-s	Lift	Convict..
Cuaca = Cerah	0.143	1	1	-0.143	0.092	2.800	∞
Suhu	0.143	1	1	-0.143	0.082	2.333	∞
Cuaca = Cerah	0.071	1	1	-0.071	0.046	2.800	∞
Suhu	0.071	1	1	-0.071	0.041	2.333	∞

Min. Criterion: confidence Min. Criterion Value:

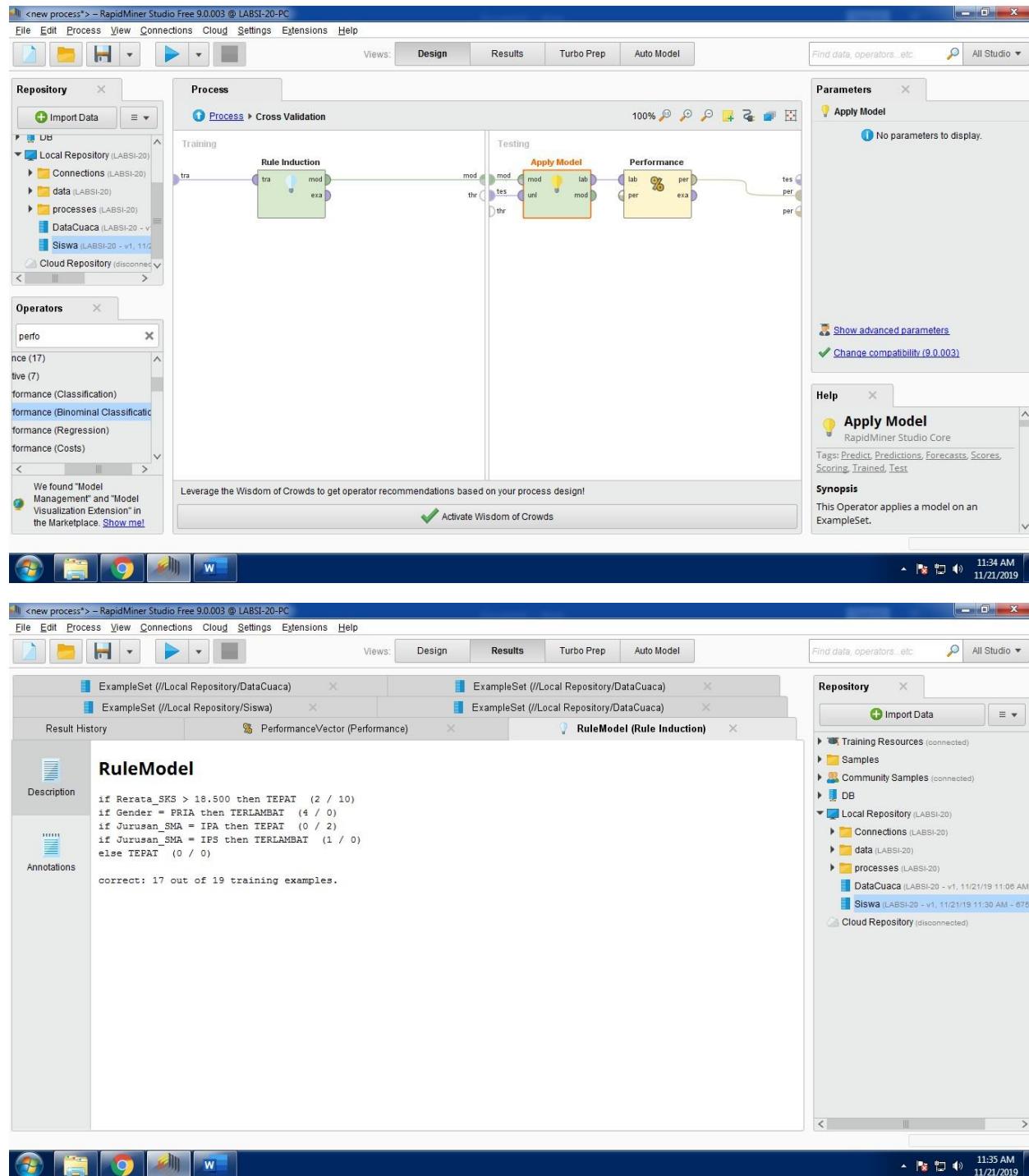
Repository

- Training Resources
- Samples
- Community Samples
- DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20)
- Cloud Repository (Cloud)

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TUGAS



<new process*> – RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

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/DataCuaca) ExampleSet (//Local Repository/DataCuaca)
ExampleSet (//Local Repository/Siswa) ExampleSet (//Local Repository/DataCuaca)
RuleModel (Rule Induction)

Result History PerformanceVector (Performance) RuleModel (Rule Induction)

Criterion accuracy

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

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

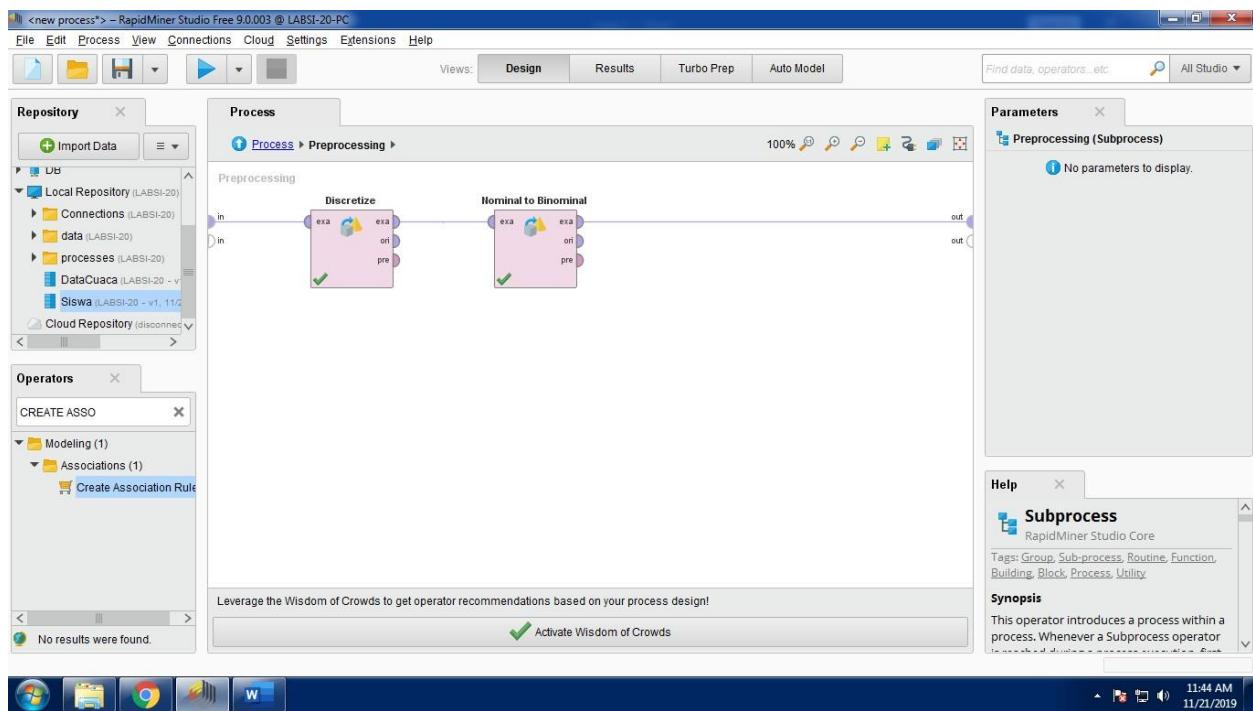
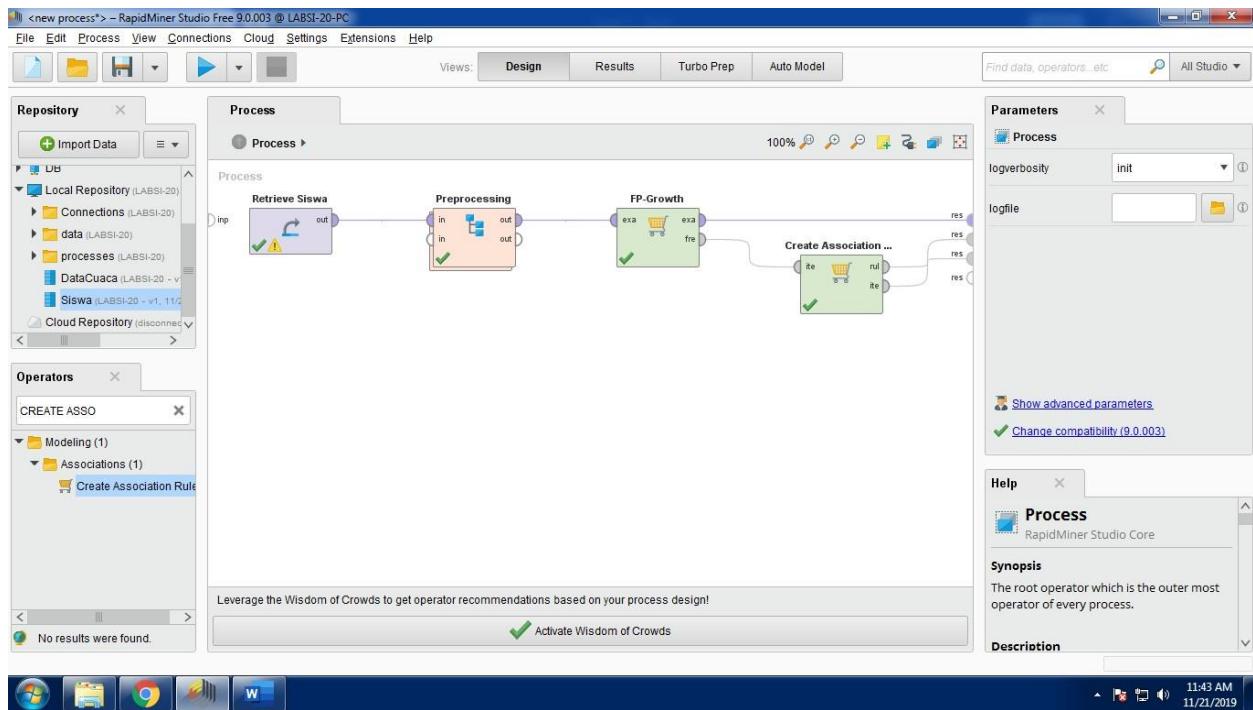
Description

Annotations

Repository

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20 - v1, 11/21/19 11:06 AM)
 - Siswa (LABSI-20 - v1, 11/21/19 11:30 AM - 675)
- Cloud Repository (disconnected)

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RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc. All Studio

Data

No. of Sets: 55 Total Max. Size: 5

Min. Size: 1 Max. Size: 5 Contains Item:

Update View

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

Repository

- Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20 - v1, 11/21/19 11:06 AM)
 - Siswa (LABSI-20 - v1, 11/21/19 11:30 AM - 675)
- Cloud Repository (disconnected)

RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc. All Studio

Data

No. of Sets: 55 Total Max. Size: 5

Min. Size: 1 Max. Size: 5 Contains Item:

Update View

Size	Support	Item 1	Item 2	Item 3	Item 4	Item 5
2	0.150	Asal_Sekolah	Asisten			
2	0.150	Asal_Sekolah	Rerata_SKS			
2	0.050	Asal_Sekolah	Jurusan_SMA =...			
2	0.100	Jurusan_SMA =...	Rerata_SKS			
2	0.150	Asisten	Rerata_SKS			
2	0.050	Asisten	Jurusan_SMA =...			
2	0.050	Rerata_SKS	Jurusan_SMA =...			
3	0.100	Gender	Jurusan_SMA =...	Asal_Sekolah		
3	0.150	Gender	Jurusan_SMA =...	Asisten		
3	0.100	Gender	Jurusan_SMA =...	Rerata_SKS		
3	0.100	Gender	Asal_Sekolah	Jurusan_SMA =...		
3	0.100	Gender	Asal_Sekolah	Asisten		
3	0.150	Gender	Asal_Sekolah	Rerata_SKS		
3	0.050	Gender	Asal_Sekolah	Jurusan_SMA =...		

Repository

- Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20 - v1, 11/21/19 11:06 AM)
 - Siswa (LABSI-20 - v1, 11/21/19 11:30 AM - 675)
- Cloud Repository (disconnected)

RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc. All Studio

Data

No. of Sets: 55 Total Max. Size: 5

Size	Support	Item 1	Item 2	Item 3	Item 4	Item 5
3	0.100	Gender	Jurusan_SMA =...	Rerata_SKS		
3	0.150	Gender	Asisten	Rerata_SKS		
3	0.050	Gender	Asisten	Jurusan_SMA =...		
3	0.050	Gender	Rerata_SKS	Jurusan_SMA =...		
3	0.100	Jurusan_SMA =...	Asal_Sekolah	Asisten		
3	0.050	Jurusan_SMA =...	Asal_Sekolah	Rerata_SKS		
3	0.100	Jurusan_SMA =...	Asisten	Rerata_SKS		
3	0.050	Asal_Sekolah	Jurusan_SMA =...	Rerata_SKS		
3	0.100	Asal_Sekolah	Asisten	Rerata_SKS		
3	0.050	Asal_Sekolah	Asisten	Jurusan_SMA =...		
3	0.050	Asal_Sekolah	Rerata_SKS	Jurusan_SMA =...		
3	0.050	Asisten	Rerata_SKS	Jurusan_SMA =...		
4	0.050	Gender	Jurusan_SMA =...	Asal_Sekolah	Asisten	
4	0.050	Gender	Jurusan_SMA =...	Asal_Sekolah	Rerata_SKS	
4	0.100	Gender	Jurusan_SMA =...	Asisten	Rerata_SKS	
4	0.050	Gender	Asal_Sekolah	Jurusan_SMA =...	Rerata_SKS	
4	0.100	Gender	Asal_Sekolah	Asisten	Rerata_SKS	
4	0.050	Gender	Asal_Sekolah	Asisten	Jurusan_SMA =...	
4	0.050	Gender	Asal_Sekolah	Rerata_SKS	Jurusan_SMA =...	
4	0.050	Gender	Asisten	Rerata_SKS	Jurusan_SMA =...	
4	0.050	Jurusan_SMA =...	Asal_Sekolah	Asisten	Rerata_SKS	
4	0.050	Asal_Sekolah	Asisten	Rerata_SKS	Jurusan_SMA =...	
5	0.050	Gender	Jurusan_SMA =...	Asal_Sekolah	Asisten	Rerata_SKS

Annotations

Min. Size: 1 Max. Size: 5 Contains Item: Update View

Repository

Import Data

- Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20 - v1, 11/21/19 11:06 AM)
 - Siswa (LABSI-20 - v1, 11/21/19 11:30 AM - 675)
- Cloud Repository (disconnected)

RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc. All Studio

Data

No. of Sets: 55 Total Max. Size: 5

Size	Support	Item 1	Item 2	Item 3	Item 4	Item 5
3	0.100	Asal_Sekolah	Asisten	Rerata_SKS		
3	0.050	Asal_Sekolah	Asisten	Jurusan_SMA =...		
3	0.050	Asal_Sekolah	Rerata_SKS	Jurusan_SMA =...		
3	0.050	Asisten	Rerata_SKS	Jurusan_SMA =...		
4	0.050	Gender	Jurusan_SMA =...	Asal_Sekolah	Asisten	
4	0.050	Gender	Jurusan_SMA =...	Asal_Sekolah	Rerata_SKS	
4	0.100	Gender	Jurusan_SMA =...	Asisten	Rerata_SKS	
4	0.050	Gender	Asal_Sekolah	Jurusan_SMA =...	Rerata_SKS	
4	0.100	Gender	Asal_Sekolah	Asisten	Rerata_SKS	
4	0.050	Gender	Asal_Sekolah	Asisten	Jurusan_SMA =...	
4	0.050	Gender	Asal_Sekolah	Rerata_SKS	Jurusan_SMA =...	
4	0.050	Gender	Asisten	Rerata_SKS	Jurusan_SMA =...	
4	0.050	Jurusan_SMA =...	Asal_Sekolah	Asisten	Rerata_SKS	
4	0.050	Asal_Sekolah	Asisten	Rerata_SKS	Jurusan_SMA =...	
5	0.050	Gender	Jurusan_SMA =...	Asal_Sekolah	Asisten	Rerata_SKS

Annotations

Min. Size: 1 Max. Size: 5 Contains Item: Update View

Repository

Import Data

- Training Resources (connected)
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 - DataCuaca (LABSI-20 - v1, 11/21/19 11:06 AM)
 - Siswa (LABSI-20 - v1, 11/21/19 11:30 AM - 675)
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DECISION

RapidMiner Studio Free 9.0.003 @ LABSI-20-PC

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

Training Resources (connected)

- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20 - v1, 11/21/19 11:05 AM)
 - Siswa (LABSI-20 - v1, 11/21/19 11:30 AM - 675)
- Cloud Repository (disconnected)

Result History AssociationRules (Create Association Rules) FrequentItemSets (FP-Growth)

Show rules matching all of these conclusions:

Data Graph Description Annotations

Min. Criterion: confidence Min. Criterion Value:

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

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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

Training Resources (connected)

- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-20)
 - Connections (LABSI-20)
 - data (LABSI-20)
 - processes (LABSI-20)
 - DataCuaca (LABSI-20 - v1, 11/21/19 11:05 AM)
 - Siswa (LABSI-20 - v1, 11/21/19 11:30 AM - 675)
- Cloud Repository (disconnected)

Result History AssociationRules (Create Association Rules) FrequentItemSets (FP-Growth)

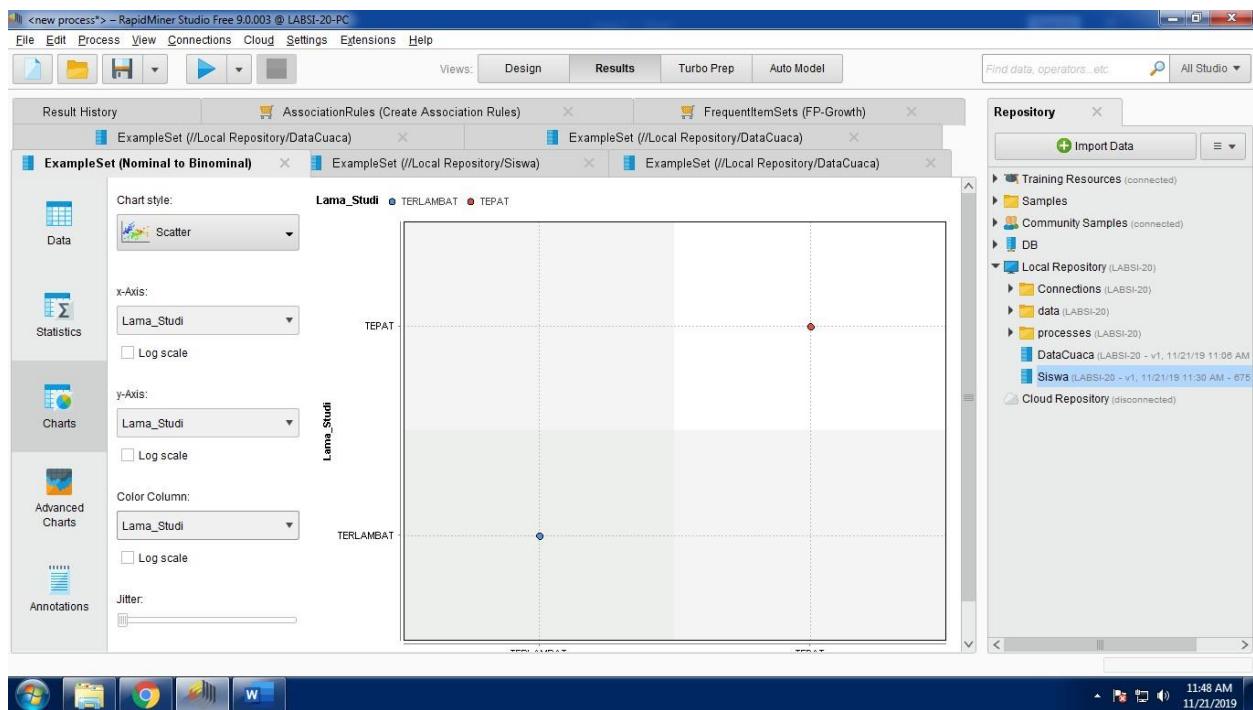
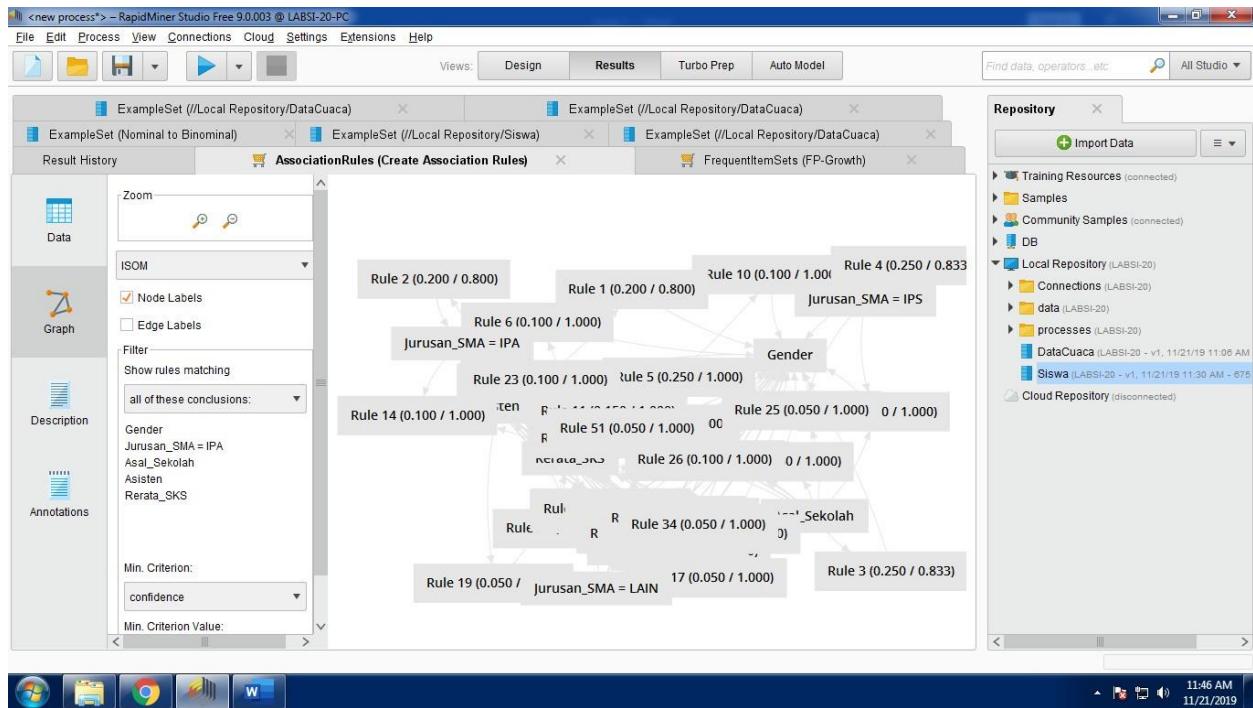
Show rules matching all of these conclusions:

Data Graph Description Annotations

Min. Criterion: confidence Min. Criterion Value:

	Support	Confidence	LaPlace	Gain	p-s	Lift	Convict...
	0.250	0.833	0.962	-0.350	0.025	1.111	1.500
	0.250	0.833	0.962	-0.350	0.025	1.111	1.500
	0.250	1	1	-0.250	0.062	1.333	∞
	0.100	1	1	-0.100	0.025	1.333	∞
	0.100	1	1	-0.100	0.025	1.333	∞
	0.150	1	1	-0.150	0.038	1.333	∞
	0.050	1	1	-0.050	0.012	1.333	∞
	0.100	1	1	-0.100	0.025	1.333	∞
	0.150	1	1	-0.150	0.038	1.333	∞
	0.050	1	1	-0.050	0.012	1.333	∞
	0.050	1	1	-0.050	0.012	1.333	∞
	0.100	1	1	-0.100	0.075	4	∞
	0.050	1	1	-0.050	0.038	4	∞
	0.050	1	1	-0.050	0.035	3.333	∞

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Modul 12

PERCOBAAN

No_SISWA polynomial id	NAMA polynomial	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

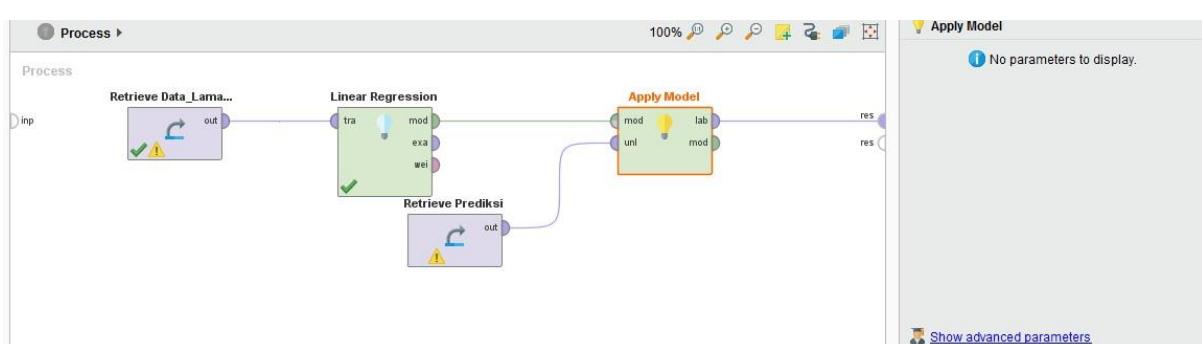
Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
LAMA BELAJAR ...	21.608	7.645	0.707	1	2.827	0.022	**
(Intercept)	492.769	96.909	?	?	5.085	0.001	****

Linear Regression

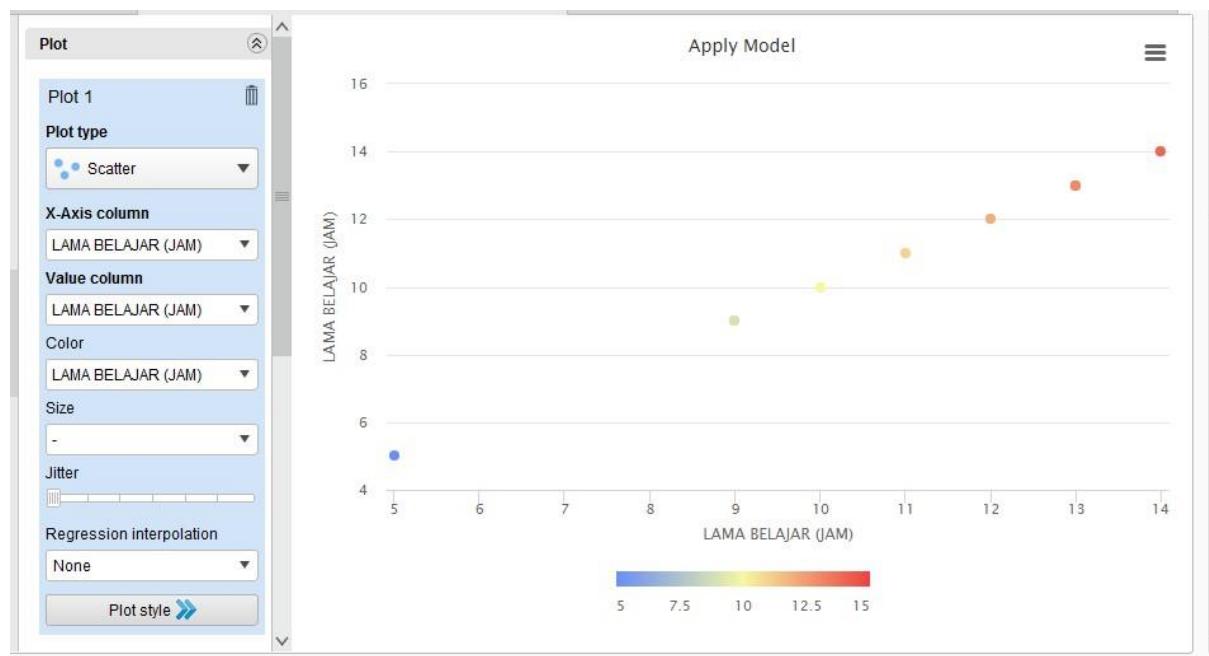
$$21.608 * \text{LAMA BELAJAR (JAM)} + 492.769$$

	A	B	C	D
1	No_SISWA	NAMA	LAMA 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				

No_SISWA	NAMA	LAMA BELAJAR (JAM)
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	YANTI	10
10 S-120	RATIH	9



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



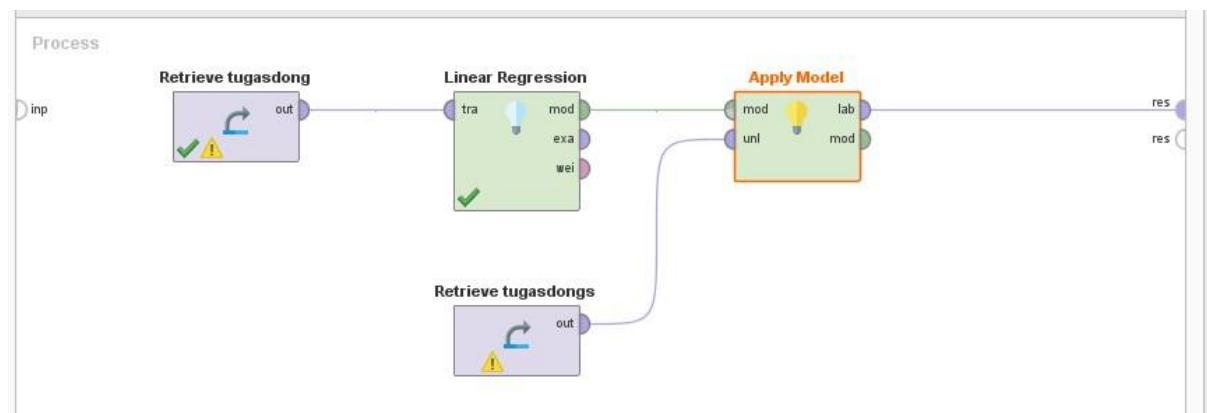
E3 =(21.608*C3)+492.769

	A	B	C	D	E
1	No_SISWA	NAMA	LAMA BELAJAR (JAM)	Prediksi Nilai Tabel	Prediksi Nilai 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					

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	****

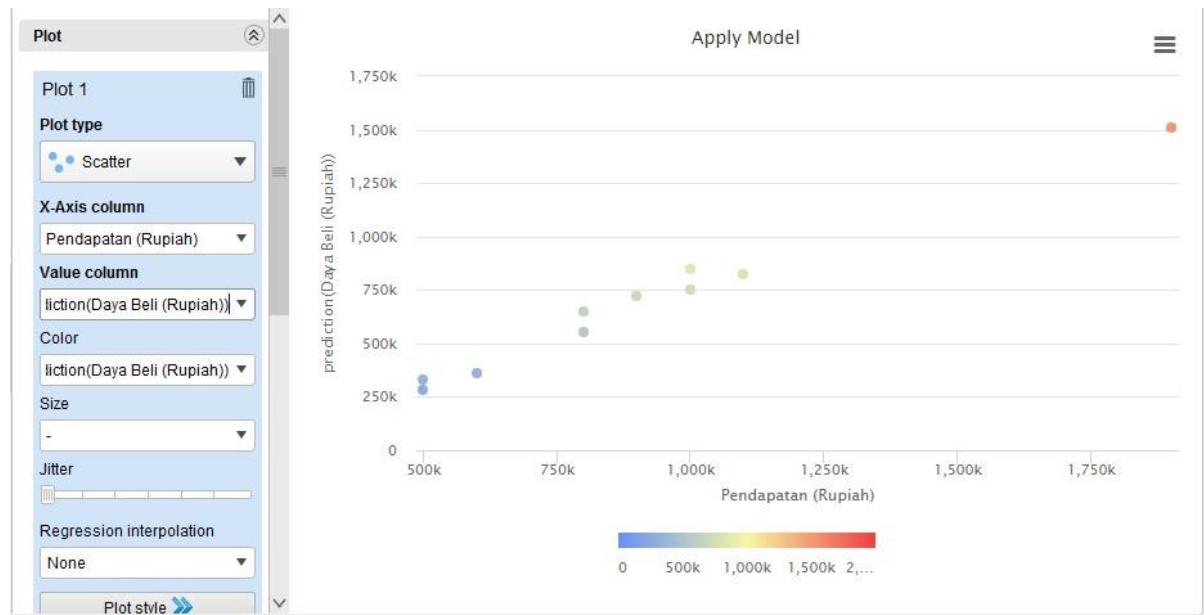
LinearRegression

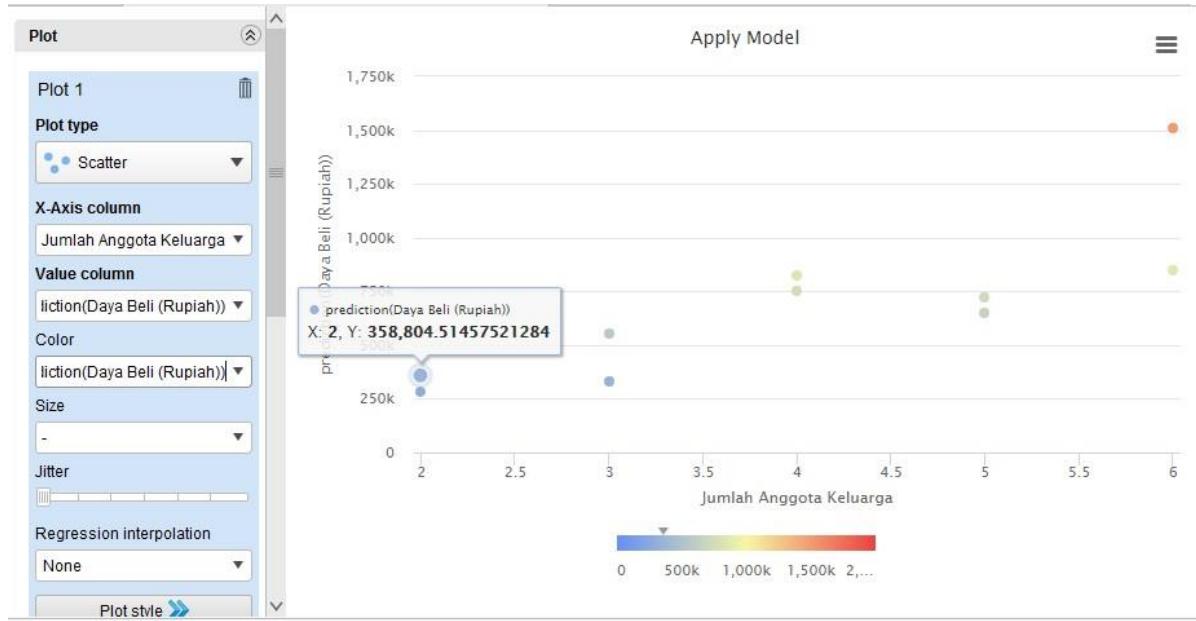
```
0.739 * Pendapatan (Rupiah)
+ 47807.624 * Jumlah Anggota Keluarga
- 180222.487
```



TUGAS

Row No.	No Respond...	prediction(D...	Pendapatan ...	Jumlah Ang...
1	1	723933.263	900000	5
2	2	554416.056	800000	3
statistics 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				
14				

