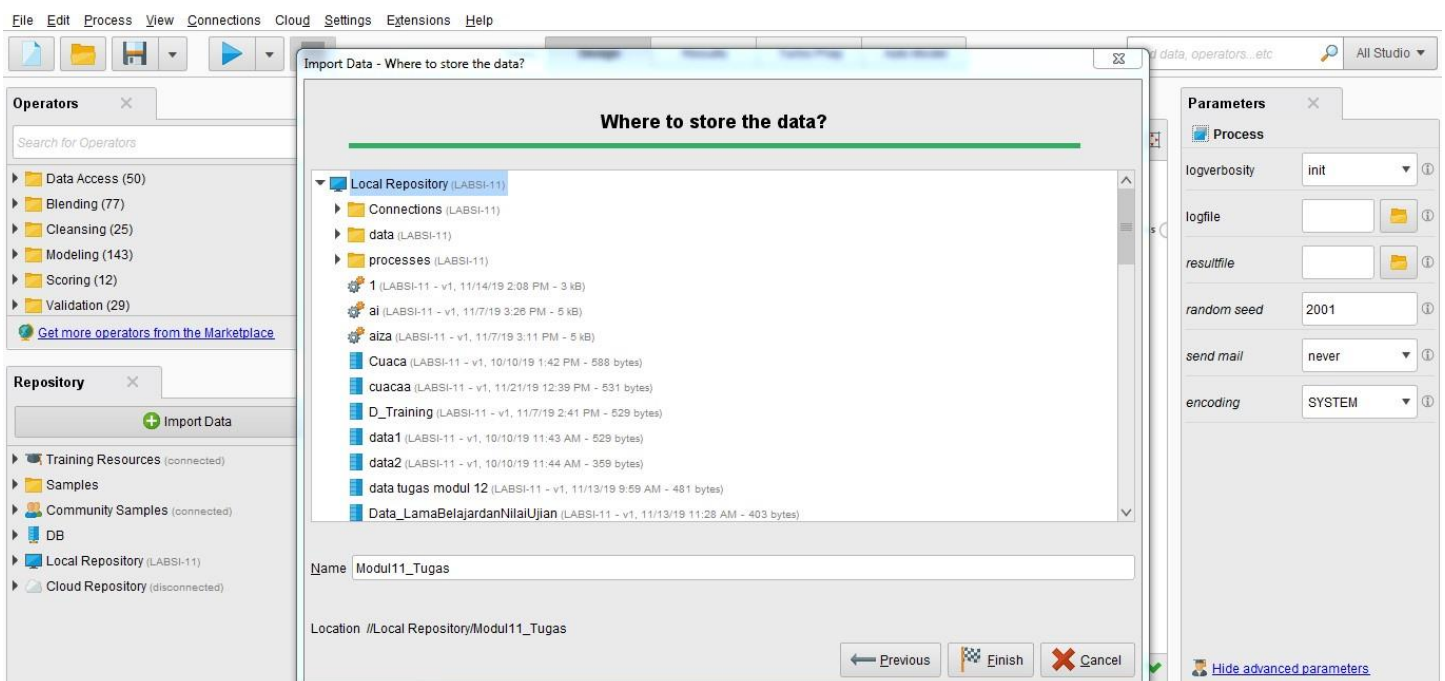
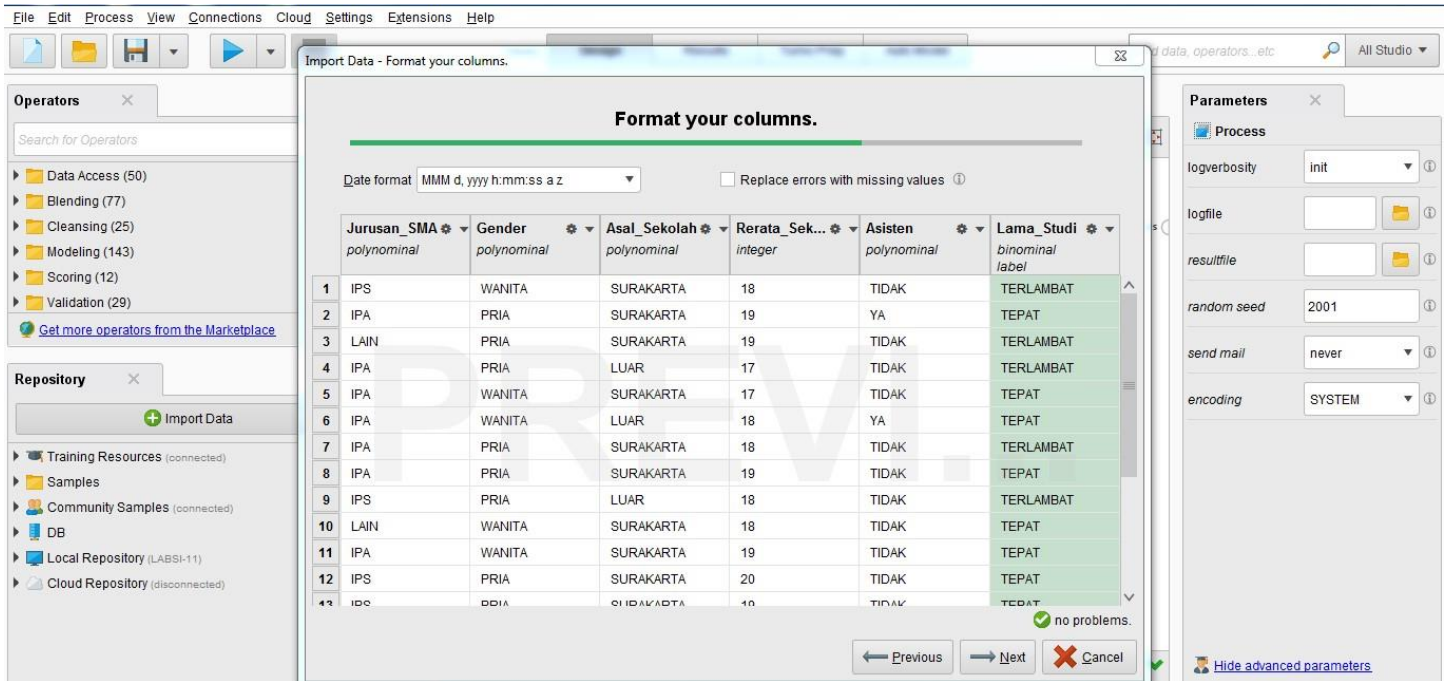


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NIM : L200170142
Kelas : F

Tugas Modul 11

- Import file



- Design (Induction Rule dan nilai Performance Vector)

File Edit Process View Connections Cloud Settings Extensions Help

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

Operators

performance

- Performance (17)
 - Predictive (7)
 - Performance (Classification)
 - Performance (Binominal Classification)
 - Performance (Regression)
 - Performance (Costs)

We found "Model Management" in the Marketplace. [Show me!](#)

Repository

Import Data

- Jurusan_Training (LABSI-11 - v1, 11/7/19 3:13 PM - 875 bytes)
- L200170167 (LABSI-11 - v1, 10/9/19 1:43 PM - 5 kB)
- ModulIR_TabelCiri (LABSI-11 - v1, 11/21/19 2:52 PM - 529 bytes)

Process

Process > Cross Validation 100%

Training: tra → Rule Induction → mod → thr

Testing: tes → thr → Apply Model → lab → per → tes → per → tes → per → tes → per

Parameters

Cross Validation

- ☐ split on batch attribute
- ☐ leave one out
- number of folds: 10
- sampling type: automatic
- ☐ use local random seed
- ☒ enable parallel execution

Process

Process

inp → Retrieve Modul11_T... → Cross Validation → res → res → res

Parameters

Process

- logverbosity: init
- logfile:
- resultfile:
- random seed: 2001
- send mail: never
- encoding: SYSTEM

- Hasilnya

1. Induction Rule

Result History PerformanceVector (Performance) RuleModel (Rule Induction) ExampleSet (/Local Repository/Modul11_Tugas)

RuleModel

Description

```

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)

```

Annotations

correct: 17 out of 19 training examples.

2. Performance Vector

Result History PerformanceVector (Performance) RuleModel (Rule Induction) ExampleSet (/Local Repository/Modul11_Tugas)

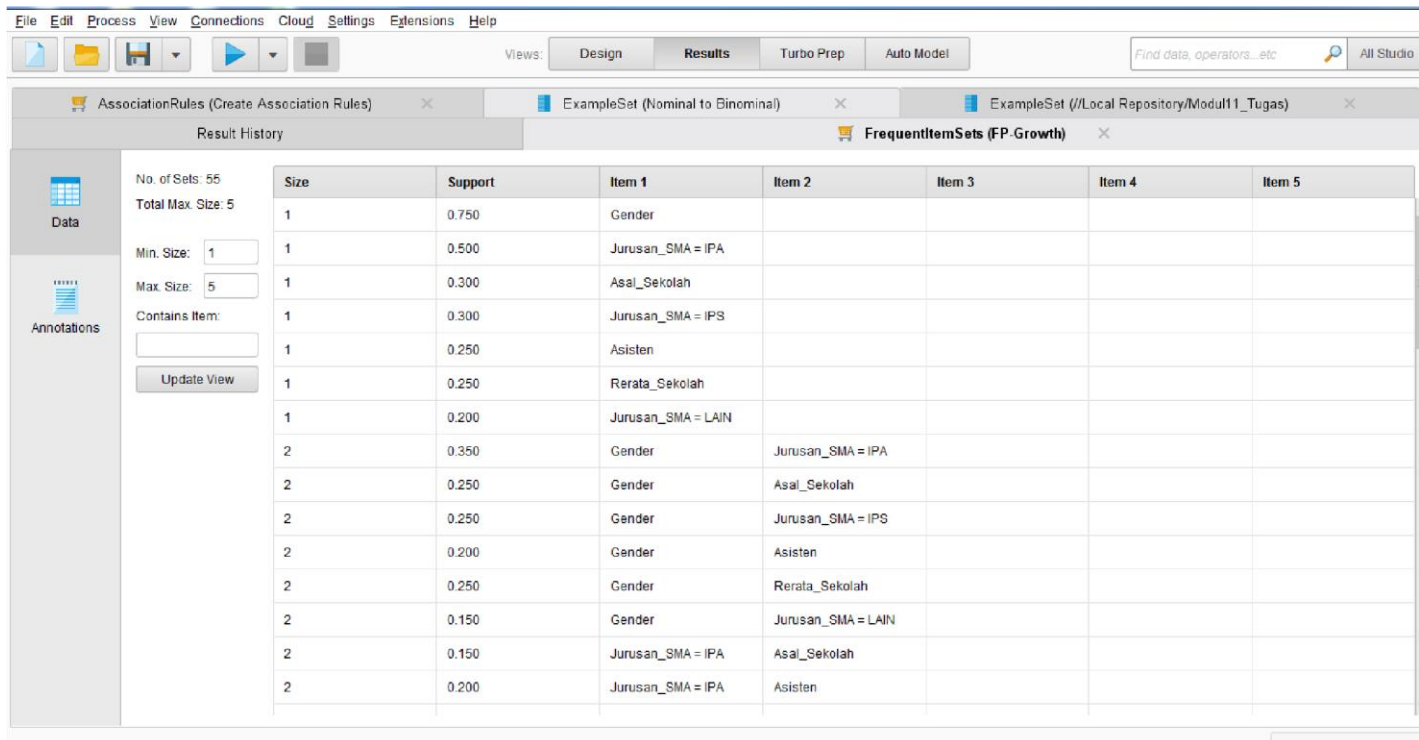
Table View Plot View

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%	

- Dengan Data Training yang sama , dengan ketentuan Discretize by Frequency:
1. number of bins = 2

Jumlah set aturan dan total max size



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			

File Edit Process View Connections Cloud Settings Extensions Help

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

Operators

create ass

Modeling (1)

Associations (1)

Create Association Rules

We found "MeaningCloud Text Analytics" in the Marketplace. [Show me!](#)

Repository

Import Data

Jurusan_Training (LABSI-11 - v1, 11/7/19 3:13 PM - 675 bytes)

L200170167 (LABSI-11 - v1, 10/9/19 1:43 PM - 5 kB)

Modul8_TabelCuaca (LABSI-11 - v1, 11/21/19 2:52 PM - 529 bytes)

Modul11_Tugas (LABSI-11 - v1, 11/21/19 3:15 PM - 679 bytes)

Process

Process

100%

Retrieve Modul11_T... Preprocessing FP-Growth Create Association ...

Parameters

Process

logverbosity init

logfile

resultfile

random seed 2001

send mail never

encoding SYSTEM

Operators

fp growth

Modeling (1)

Associations (1)

FP-Growth

No results were found.

Repository

Import Data

Jurusan_Training (LABSI-11 - v1, 11/7/19 3:13 PM - 675 bytes)

L200170167 (LABSI-11 - v1, 10/9/19 1:43 PM - 5 kB)

Process

Process > Preprocessing

100%

Preprocessing

DiscretizebnyFrequency Nominal to Binominal

Parameters

DiscretizebnyFrequency (Discretiz...

create view

attribute filter t... all

invert selection

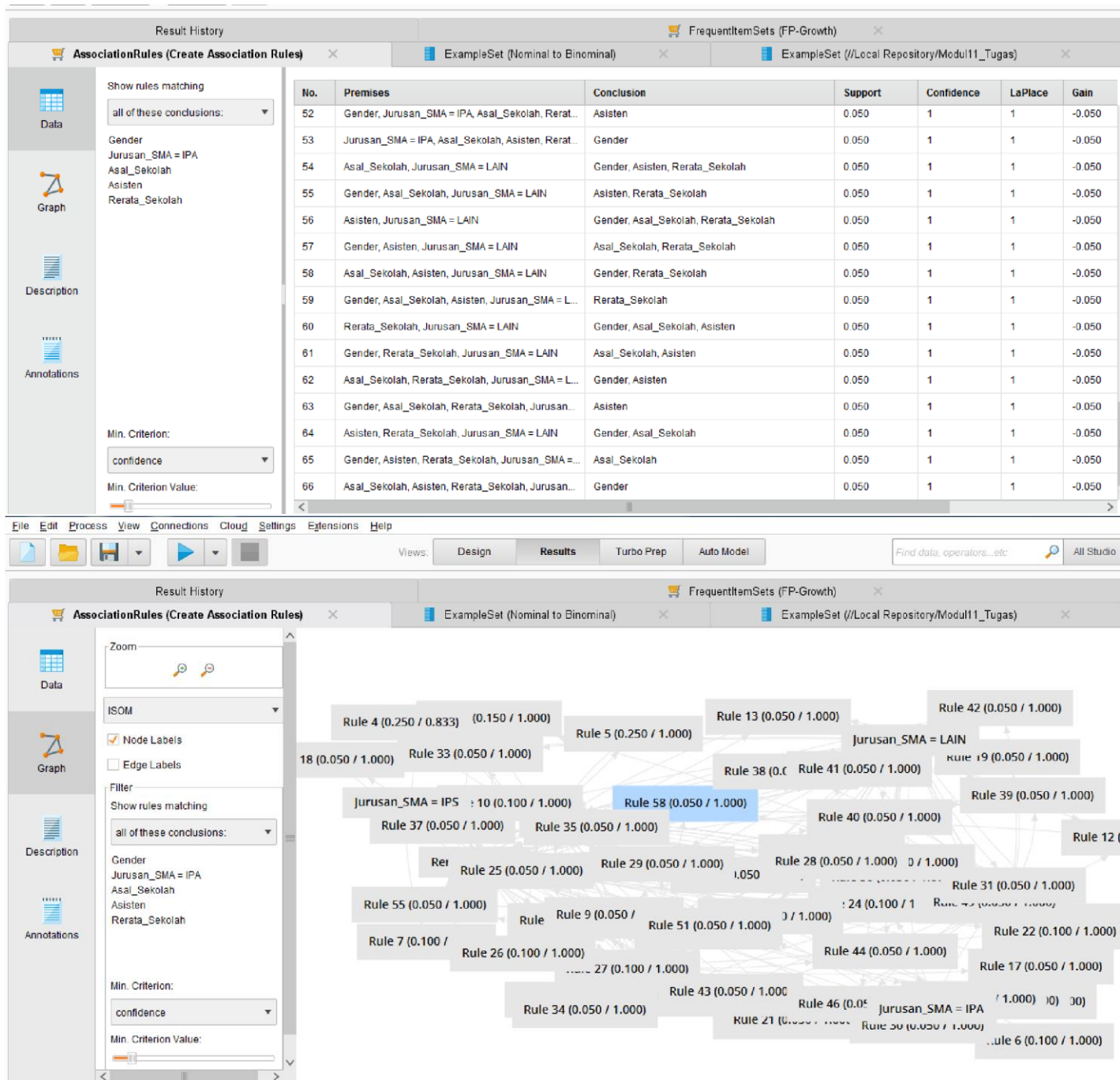
include special attributes

use sqrt of examples

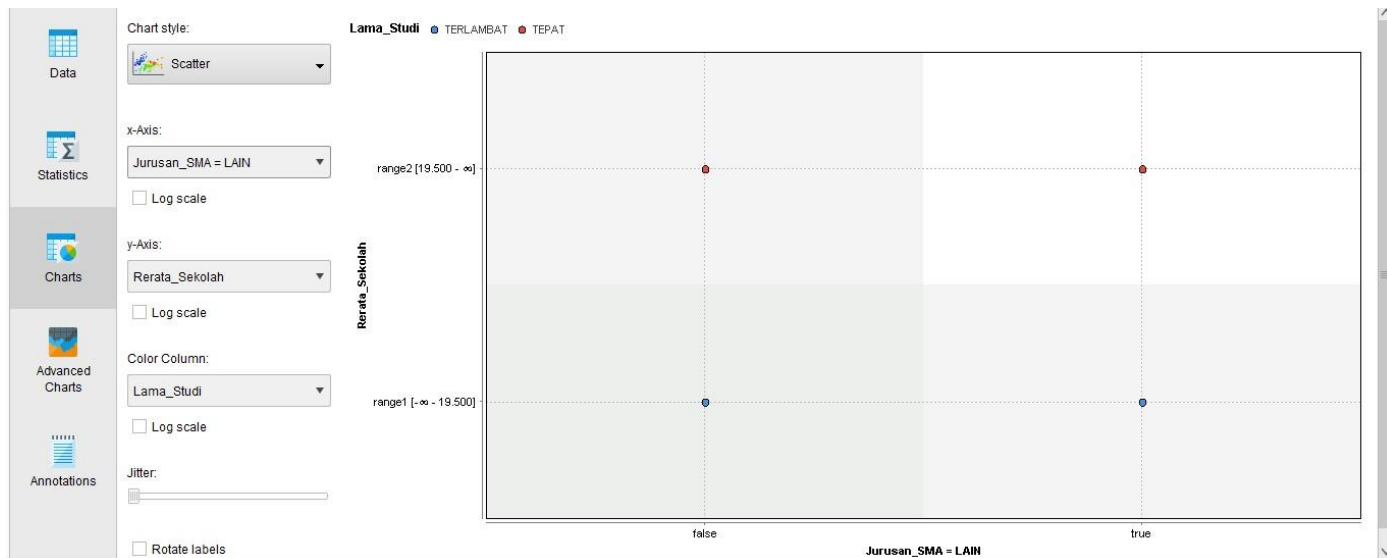
number of bins 2

range name t... long

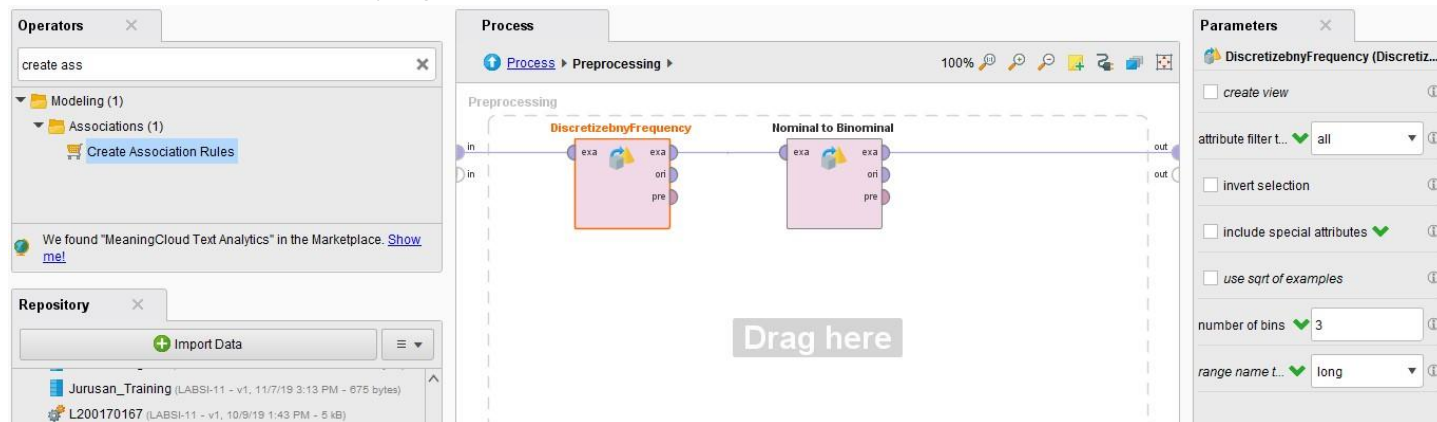
2. Hasilnya



Jumlah data pasangan premis (table dan grafik) Grafik chart pola distribusi



- Dengan data training yang sama, dengan ketentuan Discretize by Frequency: 1. number of bins selain 2 (saya gunakan 3)



2. Hasilnya



Jumlah set aturan dan total max size

<new process> - RapidMiner Studio Free 9.0.003 @ LABSI-11-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc All Studio

AssociationRules (Create Association Rules) ExampleSet (Nominal to Binominal) ExampleSet (/Local Repository/Modul11_Tugas)

Result History

FrequentItemSets (FP-Growth)

No. of Sets: 85	Total Max. Size: 5	Size	Support	Item 1	Item 2	Item 3	Item 4	Item 5
Min. Size: 1		1	0.750	Gender				
Max. Size: 5		1	0.500	Jurusan_SMA = IPA				
Contains Item:		1	0.400	Rerata_Sekolah = rang...				
Update View		1	0.350	Rerata_Sekolah = rang...				
		1	0.300	Asal_Sekolah				
		1	0.300	Jurusan_SMA = IPS				
		1	0.250	Asisten				
		1	0.250	Rerata_Sekolah = rang...				



File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc

All Studio

Result History

AssociationRules (Create Association Rules) ExampleSet (Nominal to Binominal) ExampleSet (/Local Repository/Modul11_Tugas)

Show rules matching

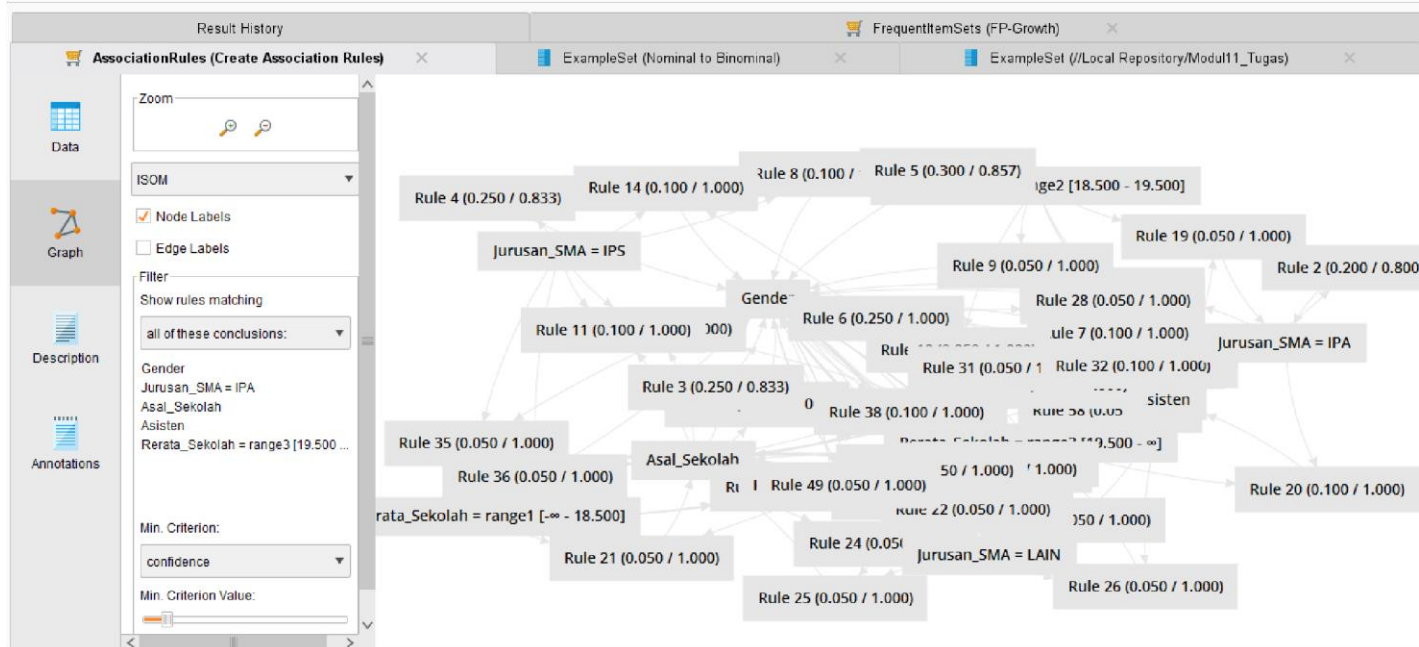
all of these conclusions:

Gender
Jurusan_SMA = IPA
Asal_Sekolah
Asisten
Rerata_Sekolah = range3 [19.500 ...

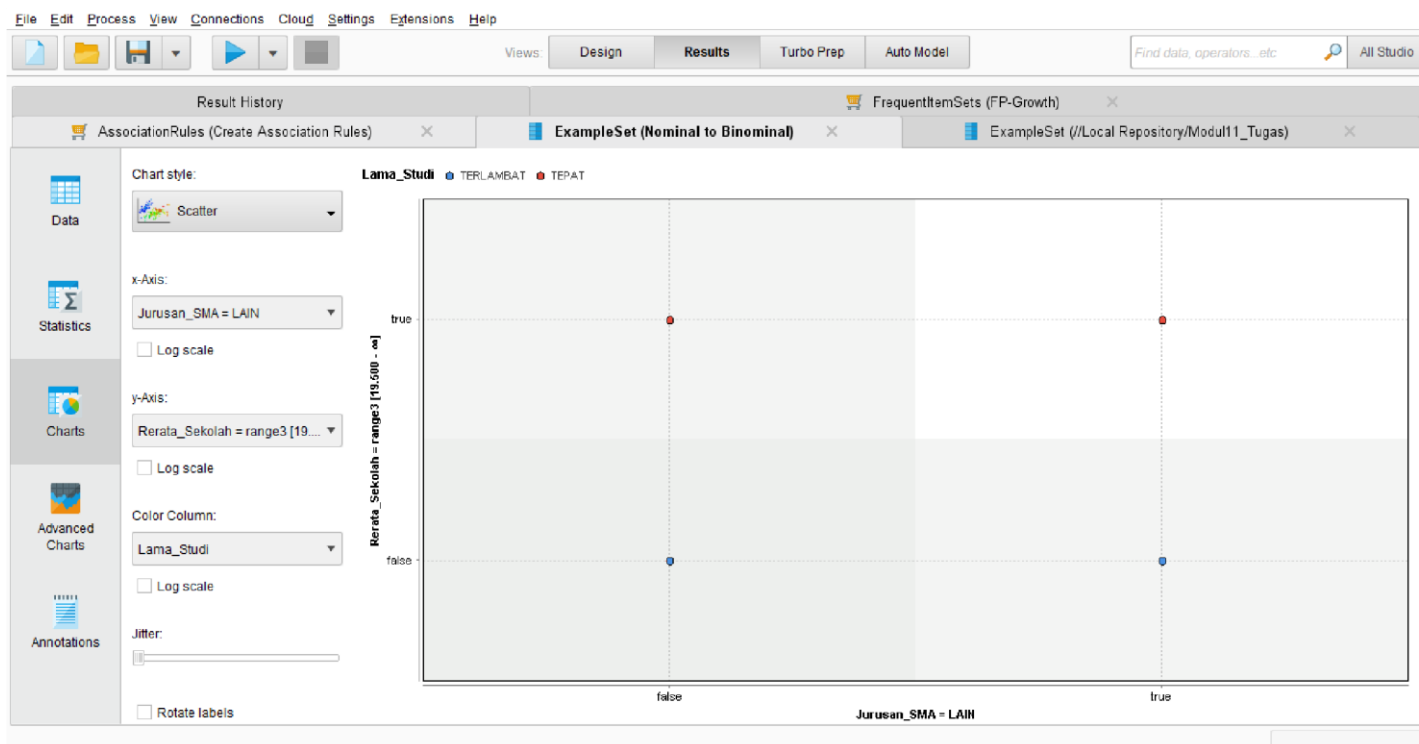
Min. Criterion:
confidence

Min. Criterion Value:

No.	Premises	Conclusion	Support	Confidence	LaPlace	Gain
67	Gender, Jurusan_SMA = IPA, Asal_Sekolah, Rerat...	Asisten	0.050	1	1	-0.050
68	Jurusan_SMA = IPA, Asal_Sekolah, Asisten, Rerat...	Gender	0.050	1	1	-0.050
69	Asal_Sekolah, Jurusan_SMA = LAIN	Gender, Asisten, Rerata_Sekolah = range3 [19.50...	0.050	1	1	-0.050
70	Gender, Asal_Sekolah, Jurusan_SMA = LAIN	Asisten, Rerata_Sekolah = range3 [19.500 - ∞]	0.050	1	1	-0.050
71	Asisten, Jurusan_SMA = LAIN	Gender, Asal_Sekolah, Rerata_Sekolah = range3 ...	0.050	1	1	-0.050
72	Gender, Asisten, Jurusan_SMA = LAIN	Asal_Sekolah, Rerata_Sekolah = range3 [19.500 - ...	0.050	1	1	-0.050
73	Asal_Sekolah, Asisten, Jurusan_SMA = LAIN	Gender, Rerata_Sekolah = range3 [19.500 - ∞]	0.050	1	1	-0.050
74	Gender, Asal_Sekolah, Asisten, Jurusan_SMA = L...	Rerata_Sekolah = range3 [19.500 - ∞]	0.050	1	1	-0.050
75	Rerata_Sekolah = range3 [19.500 - ∞], Jurusan_S...	Gender, Asal_Sekolah, Asisten	0.050	1	1	-0.050
76	Gender, Rerata_Sekolah = range3 [19.500 - ∞], Ju...	Asal_Sekolah, Asisten	0.050	1	1	-0.050
77	Asal_Sekolah, Rerata_Sekolah = range3 [19.500 - ...	Gender, Asisten	0.050	1	1	-0.050
78	Gender, Asal_Sekolah, Rerata_Sekolah = range3 ...	Asisten	0.050	1	1	-0.050
79	Asisten, Rerata_Sekolah = range3 [19.500 - ∞], Ju...	Gender, Asal_Sekolah	0.050	1	1	-0.050
80	Gender, Asisten, Rerata_Sekolah = range3 [19.50...	Asal_Sekolah	0.050	1	1	-0.050
81	Asal_Sekolah, Asisten, Rerata_Sekolah = range3 ...	Gender	0.050	1	1	-0.050



Jumlah data pasangan premis (table dan grafik)



Grafik chart pola distribusi