

1.

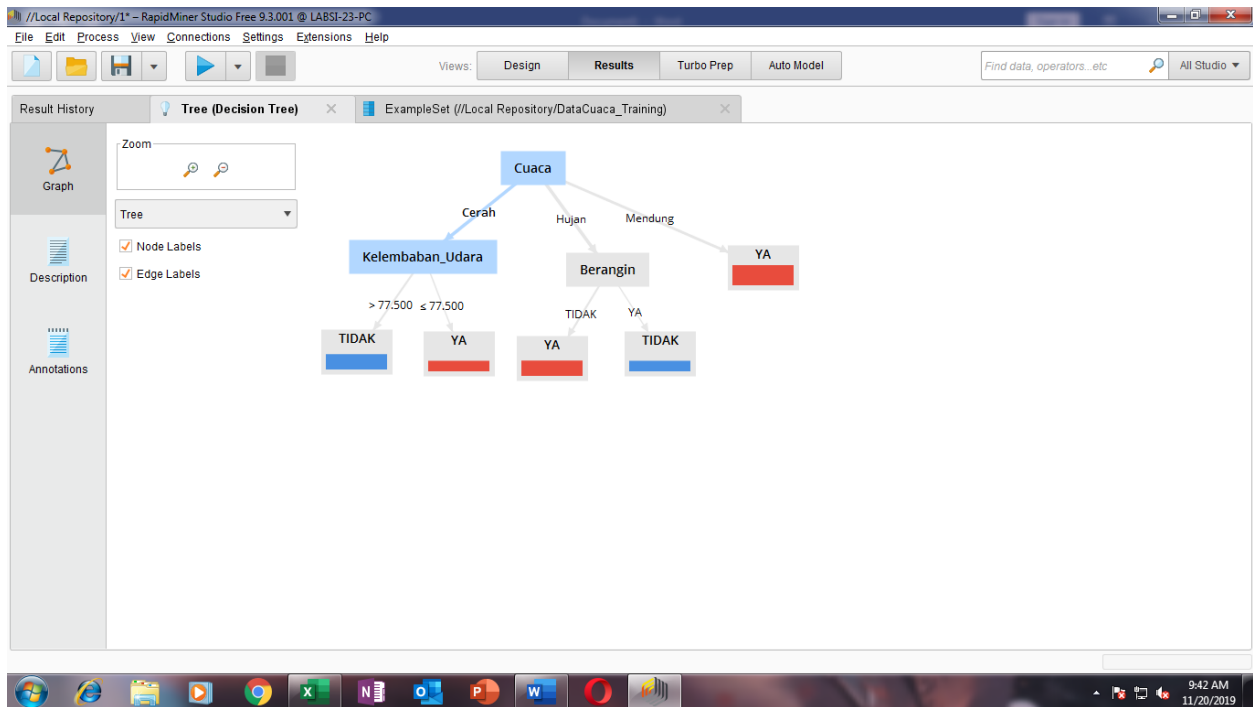


Figure 2: Data table view in RapidMiner Studio showing 14 examples. The table is filtered to show all 14 examples.

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
14	TIDAK	Hujan	71	91	YA

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

TUGAS MODUL 11 – PRAKTIKUM DWDM – L200170019 – A

The screenshot shows the RapidMiner Studio interface. The top menu bar includes File, Edit, Process, View, Connections, Settings, Extensions, and Help. Below the menu is a toolbar with icons for file operations and a 'Views' section with buttons for Design, Results, Turbo Prep, and Auto Model. The main workspace is titled 'RuleModel (Rule Induction)' and shows the following description:

RuleModel

Description
else YA (4 / 8)

Annotations
correct: 8 out of 12 training examples.

The bottom taskbar shows various application icons and the system clock indicating 9:40 AM on 11/20/2019.

2.

The screenshot shows the RapidMiner Studio interface with the 'AssociationRules (Create Association Rules)' process selected. The main workspace displays a table of association rules. The left sidebar shows the 'Data' tab selected, with a dropdown menu showing 'all of these conclusions:'. Below the table, there are settings for 'Min. Criterion' (set to 'confidence') and 'Min. Criterion Value' (set to 0.0).

No.	Premises	Conclusion	Support	Confidence	LaPlace	Gain
1	Berangin, Suhu	Cuaca = Cerah	0.143	1	1	-0.143
2	Berangin, Cuaca = Cerah	Suhu	0.143	1	1	-0.143
3	Kelembaban_Udara, Berangin, Suhu	Cuaca = Cerah	0.071	1	1	-0.071
4	Kelembaban_Udara, Berangin, Cuaca = Cerah	Suhu	0.071	1	1	-0.071

The bottom taskbar shows various application icons and the system clock indicating 9:45 AM on 11/20/2019.

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File Edit Process View Connections Settings Extensions Help

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

ExampleSet (Nominal to Binomial) ExampleSet (\\Local Repository/DataCuaca_Training)

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

Data Annotations

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

Min. Size: 1
Max. Size: 4
Contains Item:
Update View

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

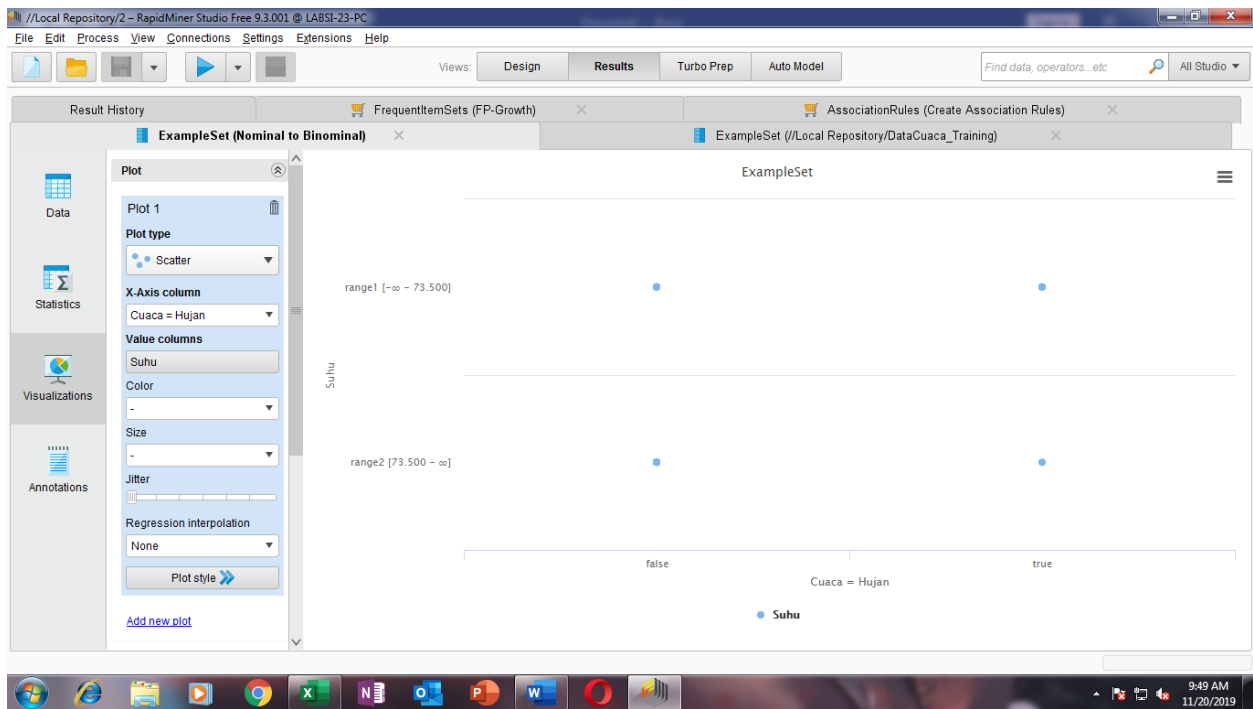
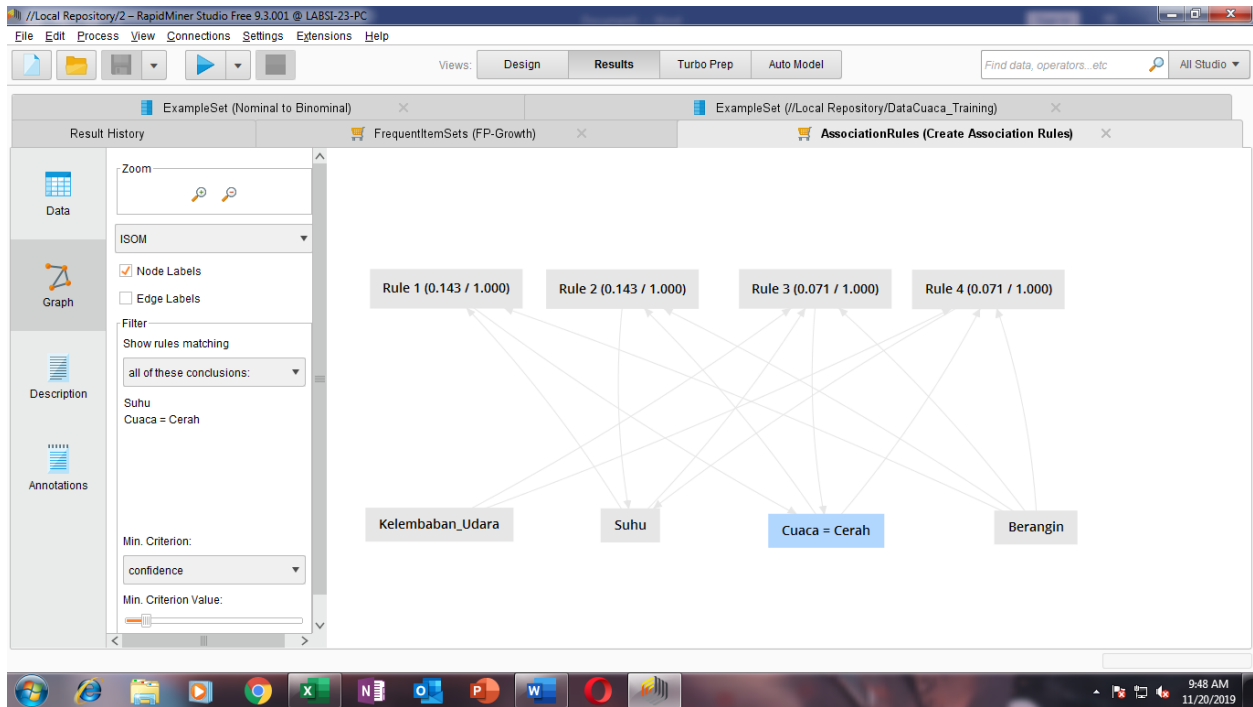
Update View

Size	Support	Item 1	Item 2	Item 3	Item 4
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

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Tugas 1

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File Edit Process View Connections Settings Extensions Help

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

Result History RuleModel (Rule Induction) ExampleSet (/Local Repository/DataCuaca_Training)

RuleModel

Description

```
if Asisten = YA then TEPAT (0 / 5)
if Rerata_Sekolah > 19.500 then TEPAT (0 / 2)
else TERLAMBAT (6 / 5)
```

Annotations

correct: 13 out of 18 training examples.

9:50 AM 11/20/2019

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File Edit Process View Connections Settings Extensions Help

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

Result History PerformanceVector (Performance) RuleModel (Rule Induction)

Criterion accuracy

Performance

Description

Annotations

Table View Plot View

accuracy: 60.00% +/- 31.62% (micro average: 60.00%)

	true TERLAMBAT	true TEPAT	class precision
pred. TERLAMBAT	0	1	0.00%
pred. TEPAT	7	12	63.16%
class recall	0.00%	92.31%	

10:03 AM 11/20/2019

Tugas 2

A number bin 2

Result History: FrequentItemSets (FP-Growth) | AssociationRules (Create Association Rules) | ExampleSet (Nominal to Binominal)

Views: Design | Results | Turbo Prep | Auto Model

Find data, operators...etc | All Studio

No. of Sets: 13
Total Max. Size: 2
Min. Size: 1
Max. Size: 2
Contains Item:
Update View

Size	Support	Item 1	Item 2
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	0.200	Jurusan_SMA = IPA	Asisten

Result History: FrequentItemSets (FP-Growth) | AssociationRules (Create Association Rules) | ExampleSet (Nominal to Binominal)

Views: Design | Results | Turbo Prep | Auto Model

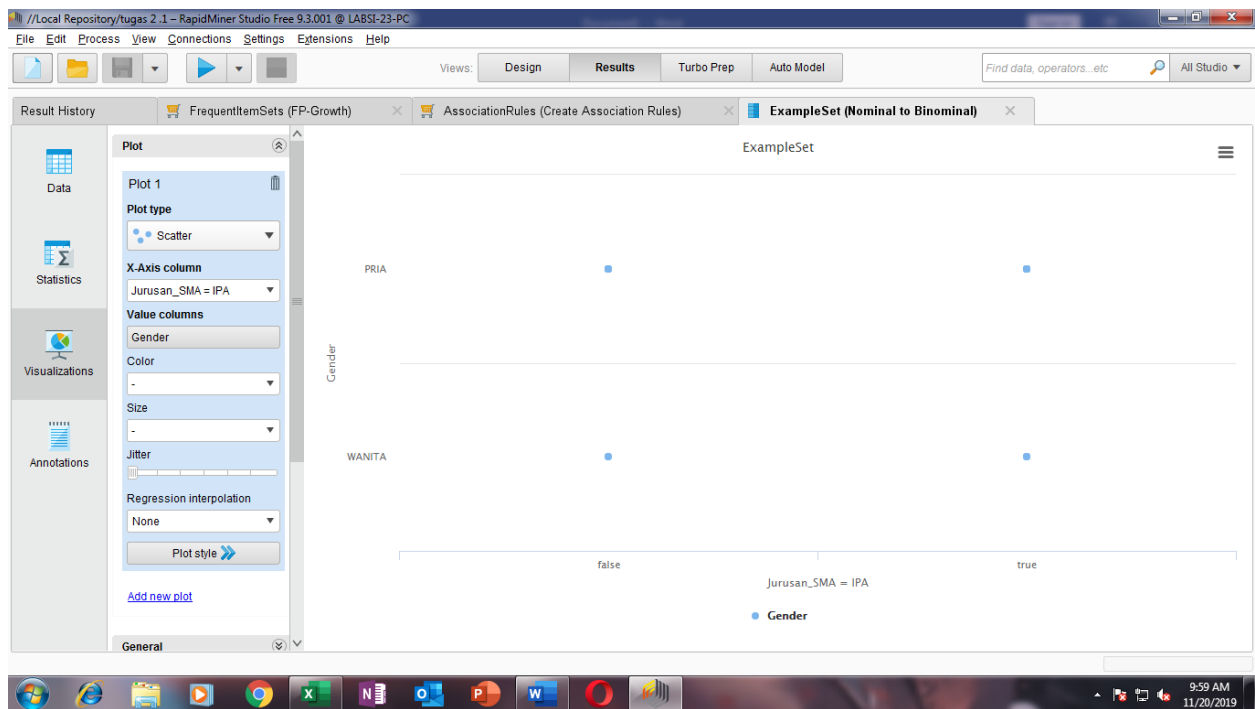
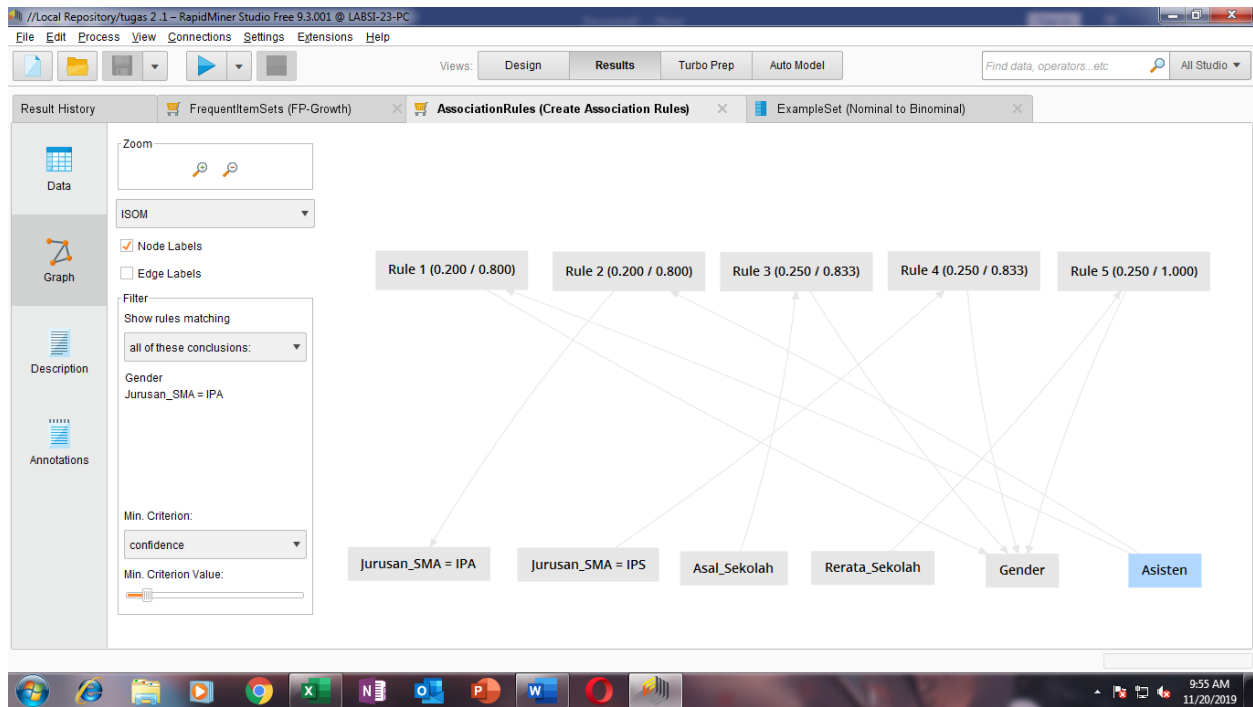
Find data, operators...etc | All Studio

Show rules matching
all of these conclusions: Gender
Jurusan_SMA = IPA

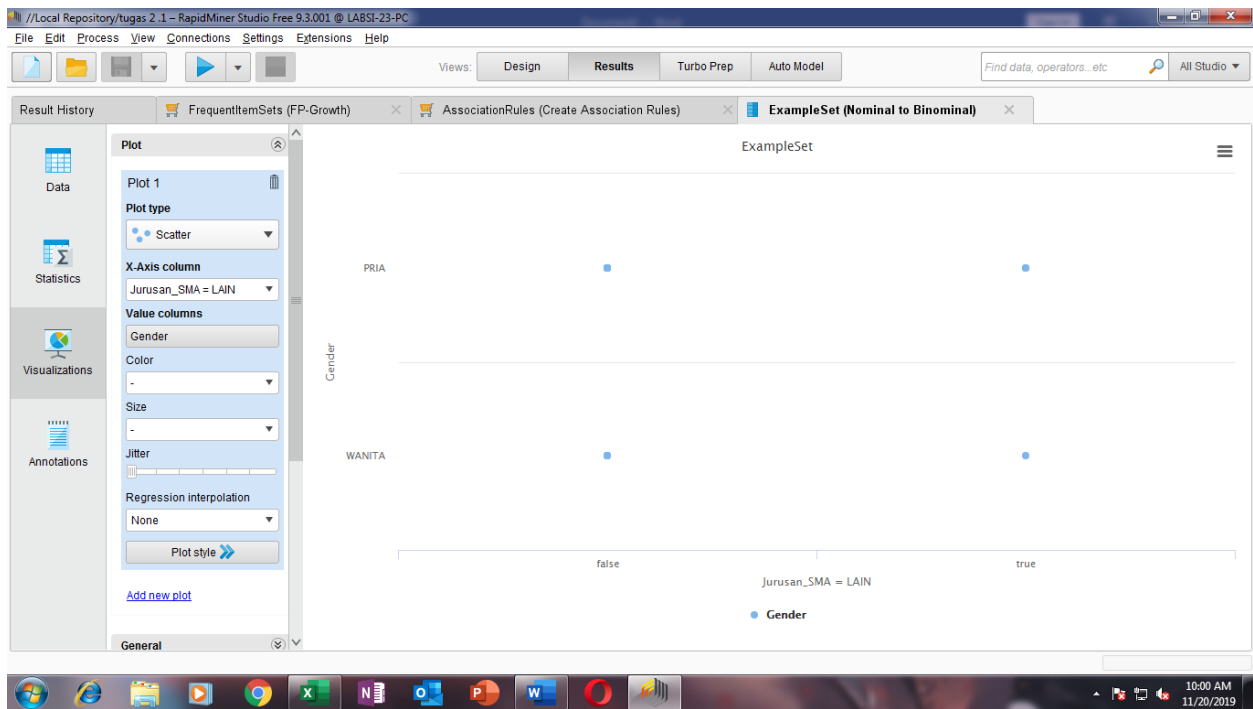
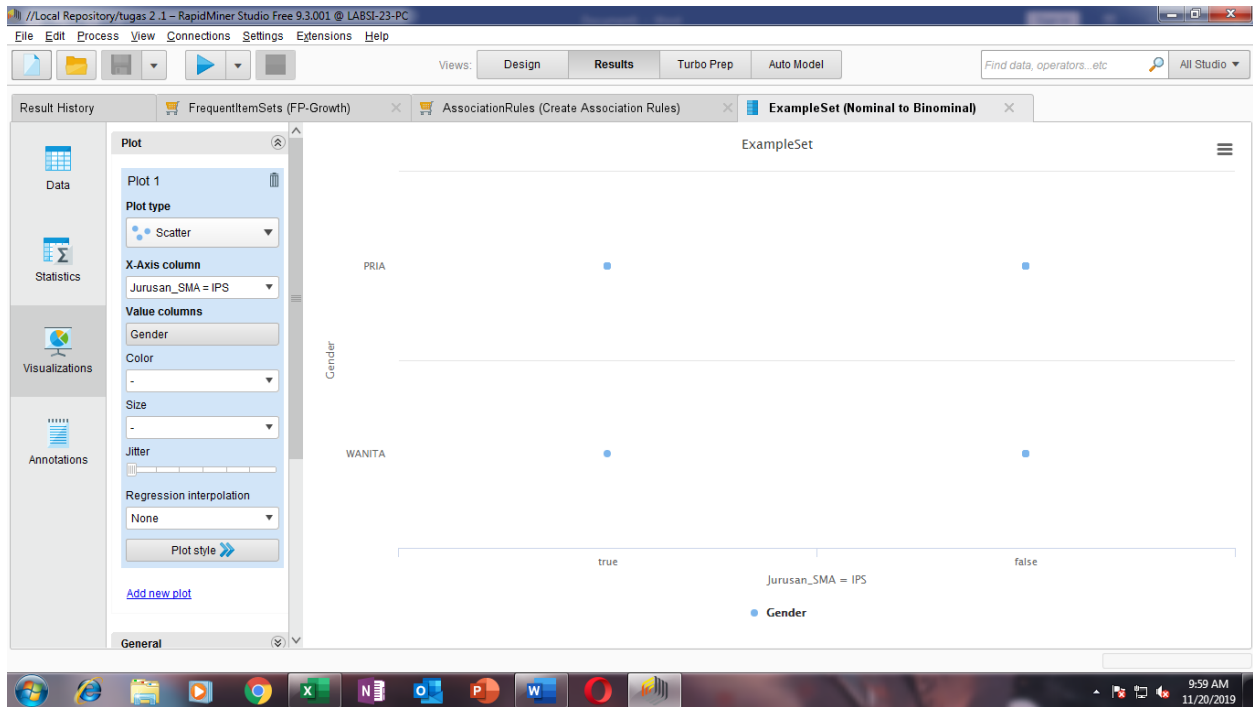
No.	Premises	Conclusion	Support	Confidence	LaPlace	Gain	p-s
3	Asal_Sekolah	Gender	0.250	0.833	0.962	-0.350	0.025
4	Jurusan_SMA = IPS	Gender	0.250	0.833	0.962	-0.350	0.025
5	Rerata_Sekolah	Gender	0.250	1	1	-0.250	0.062

p-s	Lift	Convicti...
0.025	1.111	1.500
0.025	1.111	1.500
0.062	1.333	∞

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Tugas 2

B number 3

\\Local Repository\tugas 2_b - RapidMiner Studio Free 9.3.001 @ LABSI-23-PC

File Edit Process View Connections Settings Extensions Help

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

AssociationRules (Create Association Rules) ExampleSet (Nominal to Binominal) PerformanceVector (Performance)

Result History FrequentItemSets (FP-Growth)

Data

Annotations

No. of Sets: 19
Total Max. Size: 2

Min. Size: 1
Max. Size: 2

Contains Item:

Update View

Size	Support	Item 1	Item 2
1	0.750	Gender	
1	0.500	Jurusan_SMA = IPA	
1	0.400	Rerata_Sekolah = range1 [-∞ - 18.500]	
1	0.350	Rerata_Sekolah = range2 [18.500 - 19.500]	
1	0.300	Asal_Sekolah	
1	0.300	Jurusan_SMA = IPS	
1	0.250	Asisten	
1	0.250	Rerata_Sekolah = range3 [19.500 - ∞]	
1	0.200	Jurusan_SMA = LAIN	
2	0.350	Gender	Jurusan_SMA = IPA
2	0.200	Gender	Rerata_Sekolah = range1 [-∞ - 18.500]
2	0.300	Gender	Rerata_Sekolah = range2 [18.500 - 19.500]
2	0.250	Gender	Asal_Sekolah
2	0.250	Gender	Jurusan_SMA = IPS
2	0.200	Gender	Asisten

Sending statistics

10:05 AM
11/20/2019

2	0.250	Gender	Rerata_Sekolah = range3 [19.500 - ∞]
2	0.200	Jurusan_SMA = IPA	Rerata_Sekolah = range1 [-∞ - 18.500]
2	0.200	Jurusan_SMA = IPA	Rerata_Sekolah = range2 [18.500 - 19.500]
2	0.200	Jurusan_SMA = IPA	Asisten

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Result History

AssociationRules (Create Association Rules) x

ExampleSet (Nominal to Binominal) x

PerformanceVector (Performance) x

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Show rules matching

all of these conclusions:

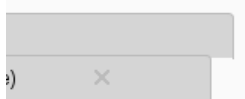
Gender

Jurusan_SMA = IPA

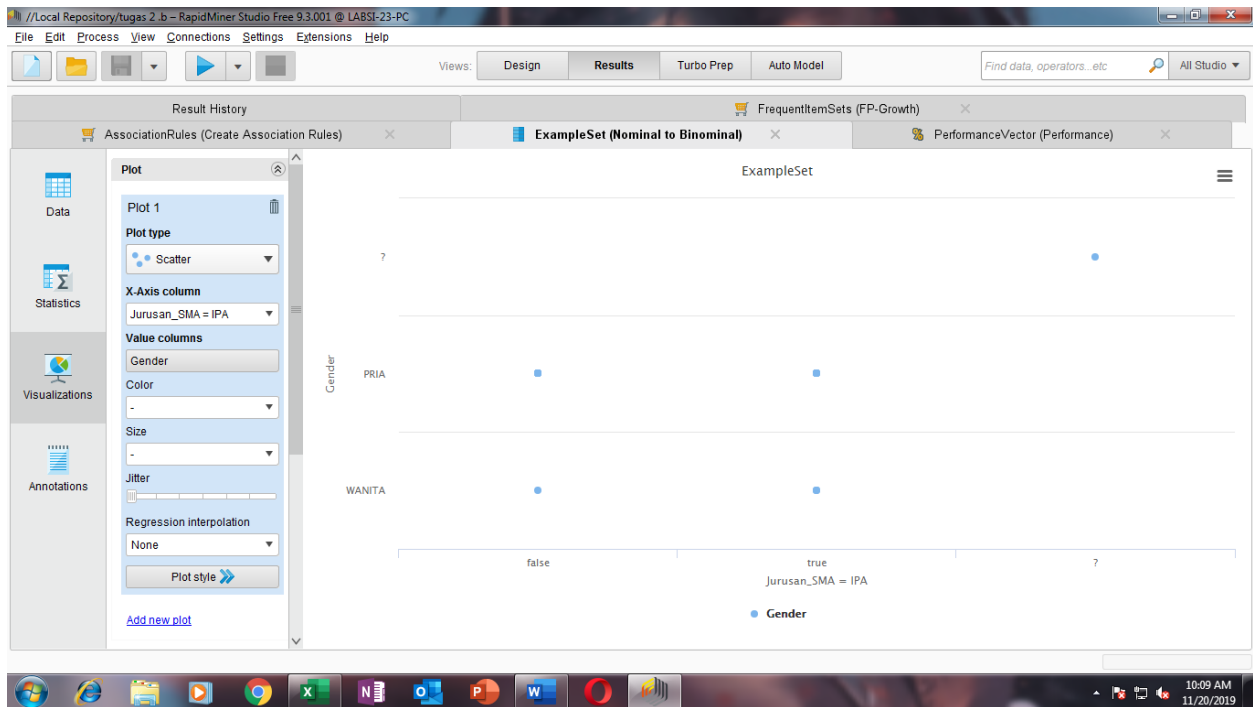
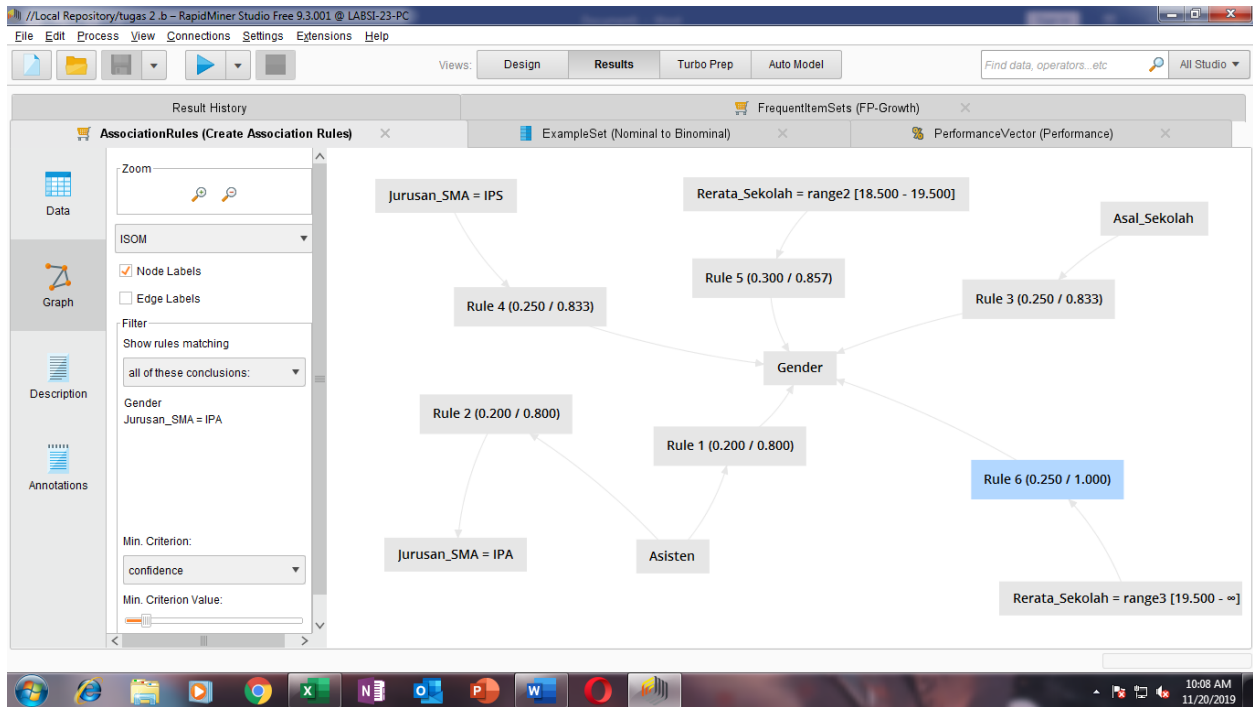
Min. Criterion: confidence

Min. Criterion Value:

No.	Premises	Conclusion	Support	Confidence	LaPlace	Gain	p-s
3	Asal_Sekolah	Gender	0.250	0.833	0.962	-0.350	0.025
4	Jurusan_SMA = IPS	Gender	0.250	0.833	0.962	-0.350	0.025
5	Rerata_Sekolah = range2 [18.500 - 19.500]	Gender	0.300	0.857	0.963	-0.400	0.038
6	Rerata_Sekolah = range3 [19.500 - ∞]	Gender	0.250	1	1	-0.250	0.062



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