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## TUGAS

### Tugas 1

The screenshot shows the RapidMiner Studio interface with the 'RuleModel (Rule Induction)' tab selected. The 'Description' pane on the left shows the following rules and their performance:

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

The 'Annotations' pane shows: correct: 13 out of 18 training examples.

The screenshot shows the RapidMiner Studio interface with the 'PerformanceVector (Performance)' tab selected. The 'Criterion' pane on the left shows 'accuracy'. The 'Table View' is selected, displaying the following performance metrics:

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%	

## Tugas 2

### A number bin 2

Local Repository/tugas 2.1 - 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

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

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

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File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

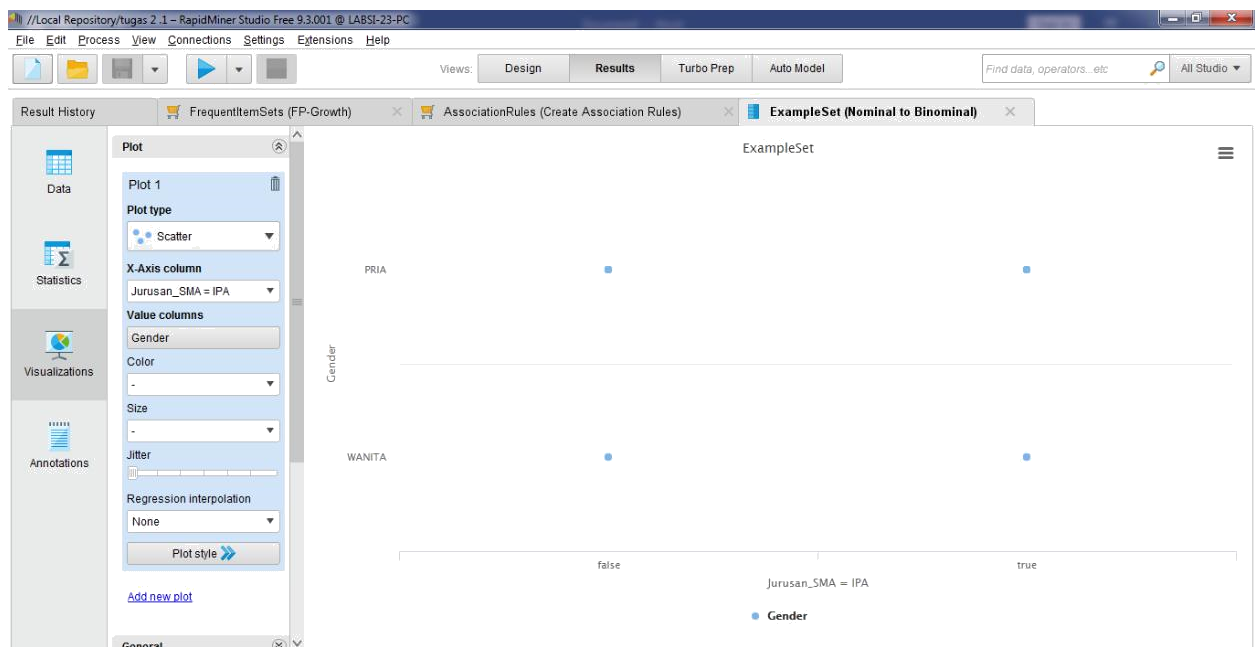
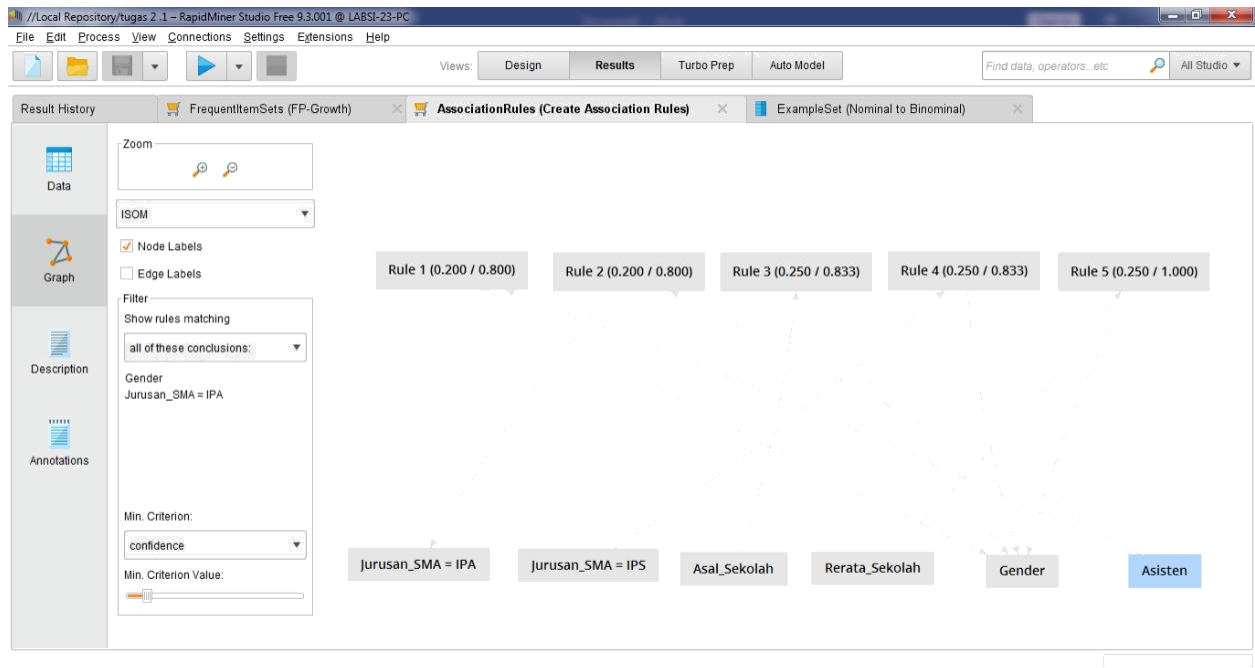
Find data, operators...etc All Studio

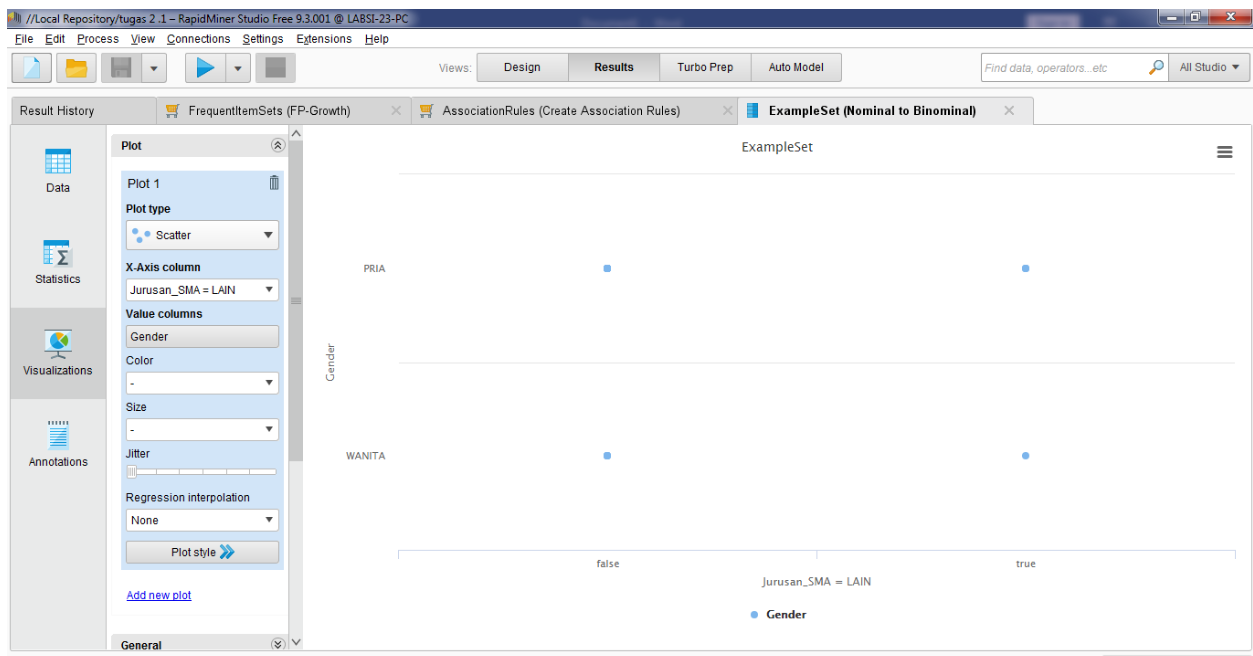
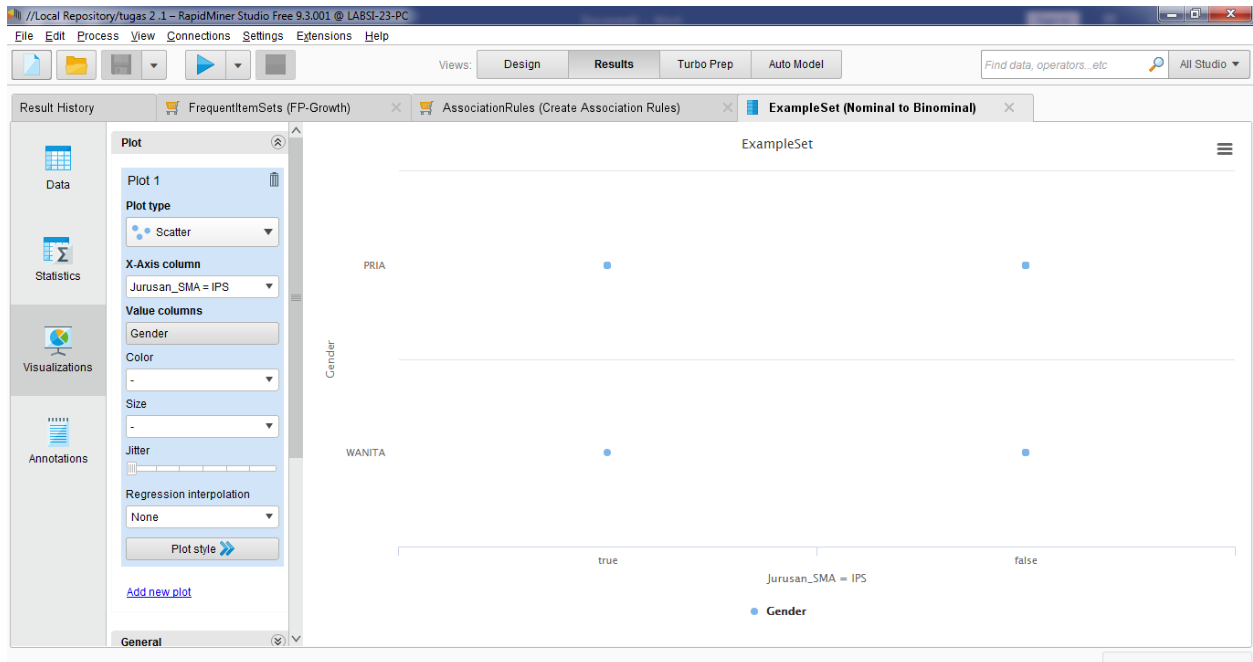
Result History FrequentItemSets (FP-Growth) AssociationRules (Create Association Rules) ExampleSet (Nominal to Binominal)

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	∞





## 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

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

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

Result History

AssociationRules (Create Association Rules) ExampleSet (Nominal to Binominal) FrequentItemSets (FP-Growth) PerformanceVector (Performance)

Show rules matching  
all of these conclusions: Gender  
Jurusan\_SMA = IPA

Data  
Graph  
Description  
Annotations

Min. Criterion: confidence  
Min. Criterion Value: 0.0

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

Lift	Convicti...
1.111	1.500
1.111	1.500
1.143	1.750
1.333	∞

