

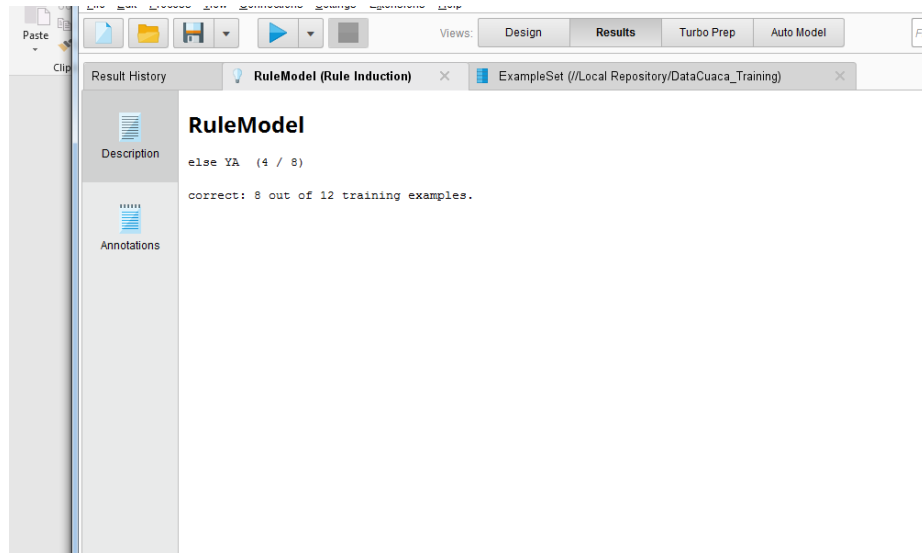
Nama : Rima Dwi Novika

NIM : L200170044

Kelas : B

Induksi Aturan Cuaca

RuleModel



Aturan Asosiasi Data Cuaca

Frequent Item Set

The screenshot shows the RapidMiner Studio interface with the 'Results' tab selected. The main window displays the 'FrequentItemSets (FP-Growth)' results for the 'ExampleSet (/Local Repository/DataCuaca_Training)'. The results are presented in a table with columns: Size, Support, Item 1, Item 2, Item 3, and Item 4. The table lists 26 frequent item sets, with the top 10 shown. The 'Size' column indicates the number of items in the set, and the 'Support' column shows the support value. The 'Item' columns list the items in the set, with some items being combinations of weather conditions (e.g., 'Cuaca = Cerah', 'Cuaca = Hujan', 'Cuaca = Mendu...').

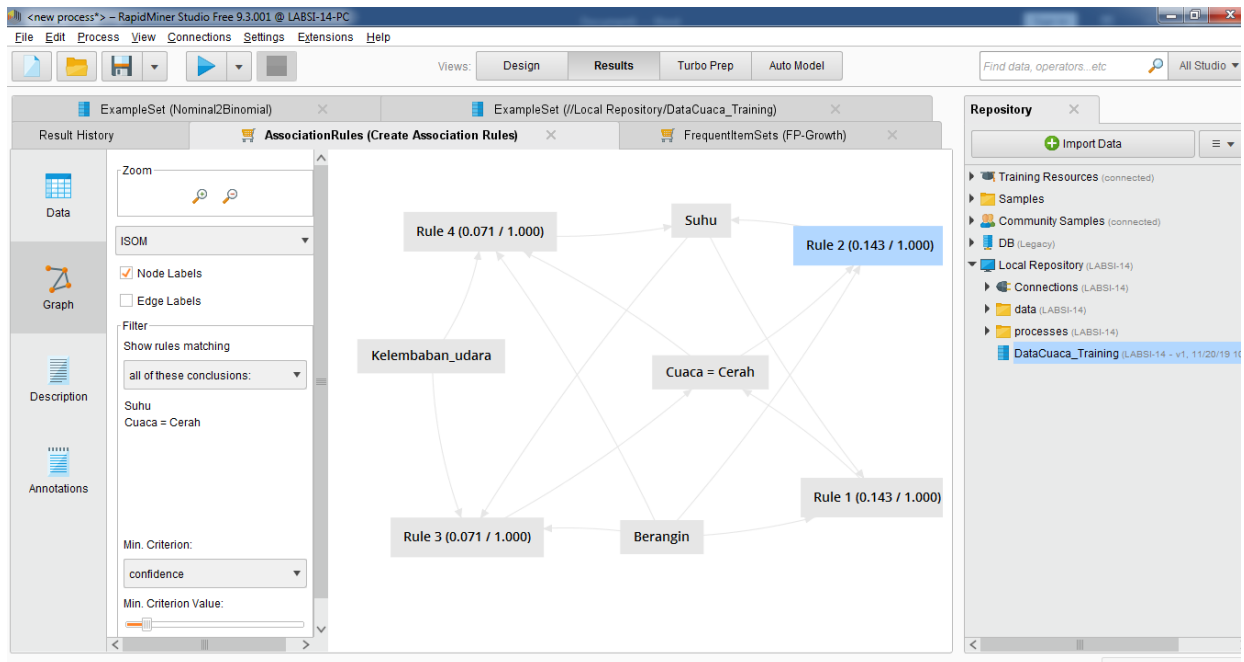
Size	Support	Item 1	Item 2	Item 3	Item 4
1	0.500	Kelembaban_u...			
1	0.429	Berangin			
1	0.429	Suhu			
1	0.357	Cuaca = Cerah			
1	0.357	Cuaca = Hujan			
1	0.286	Cuaca = Mendu...			
2	0.214	Kelembaban_u...	Berangin		
2	0.214	Kelembaban_u...	Suhu		
2	0.214	Kelembaban_u...	Cuaca = Cerah		
2	0.143	Kelembaban_u...	Cuaca = Hujan		
2	0.143	Kelembaban_u...	Cuaca = Mendu...		
2	0.143	Berangin	Suhu		
2	0.143	Berangin	Cuaca = Cerah		
2	0.143	Berangin	Cuaca = Hujan		

Table View

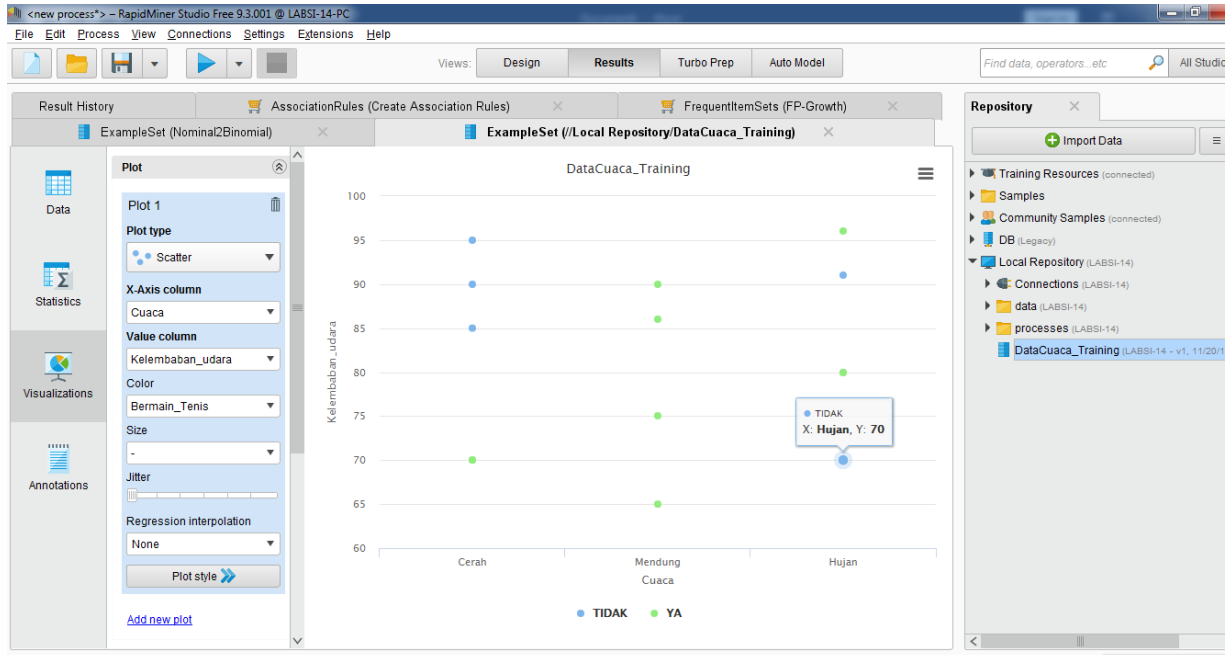
The screenshot shows the RapidMiner Studio interface with the 'Results' tab selected. The main window displays the 'AssociationRules (Create Association Rules)' results for the 'ExampleSet (/Local Repository/DataCuaca_Training)'. The results are presented in a table with columns: inclusion, Support, Confidence, LaPlace, Gain, and p-s. The table lists 4 association rules, with the top 4 shown. The 'inclusion' column lists the items in the rule, and the other columns show the support, confidence, Laplace, Gain, and p-s values. The 'Min. Criterion' is set to 'confidence' and the 'Min. Criterion Value' is set to 0.5.

inclusion	Support	Confidence	LaPlace	Gain	p-s
iac = Cerah	0.143	1	1	-0.143	0.092
hu	0.143	1	1	-0.143	0.082
iac = Cerah	0.071	1	1	-0.071	0.046
hu	0.071	1	1	-0.071	0.041

Graph View



Example Set



TUGAS

1. Rule Model

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc

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)

correct: 13 out of 18 training examples.
```

Annotations

Performance Vector

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc

Result History PerformanceVector (Performance) RuleModel (Rule Induction)

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%	

2.

a. Number of bins = 2

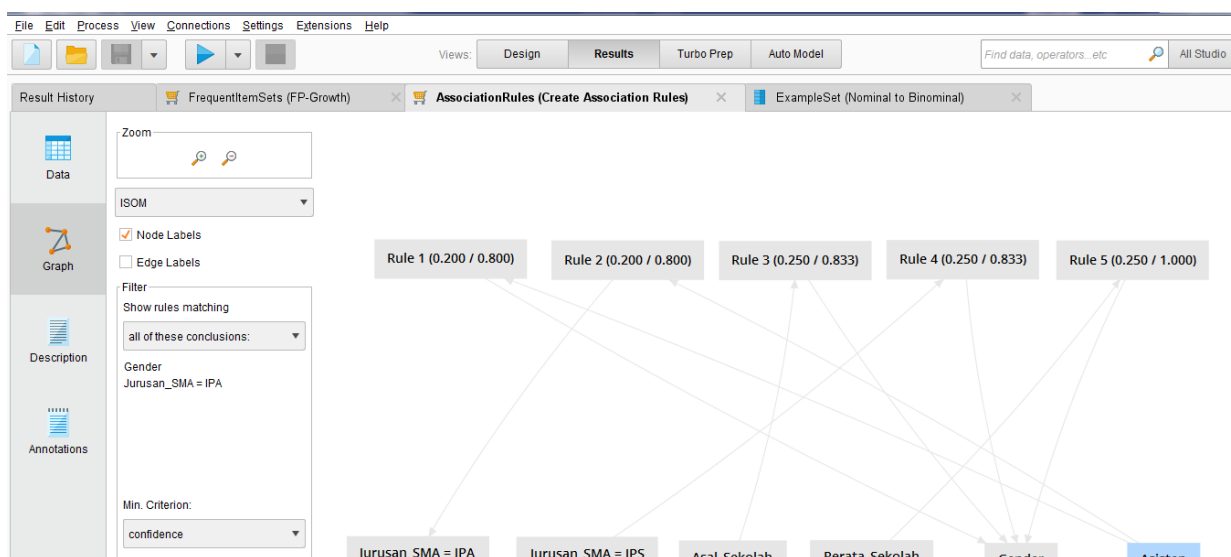
Frequent Item

File	Edit	Process	View	Connections	Settings	Extensions	Help
Views:				Design	Results	Turbo Prep	Auto Model
Find data, operators, etc.							
Result History							
FrequentItemSets (FP-Growth) × AssociationRules (Create Association Rules) × ExampleSet (Nominal to Binominal) ×							
Data							
Annotations							
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		

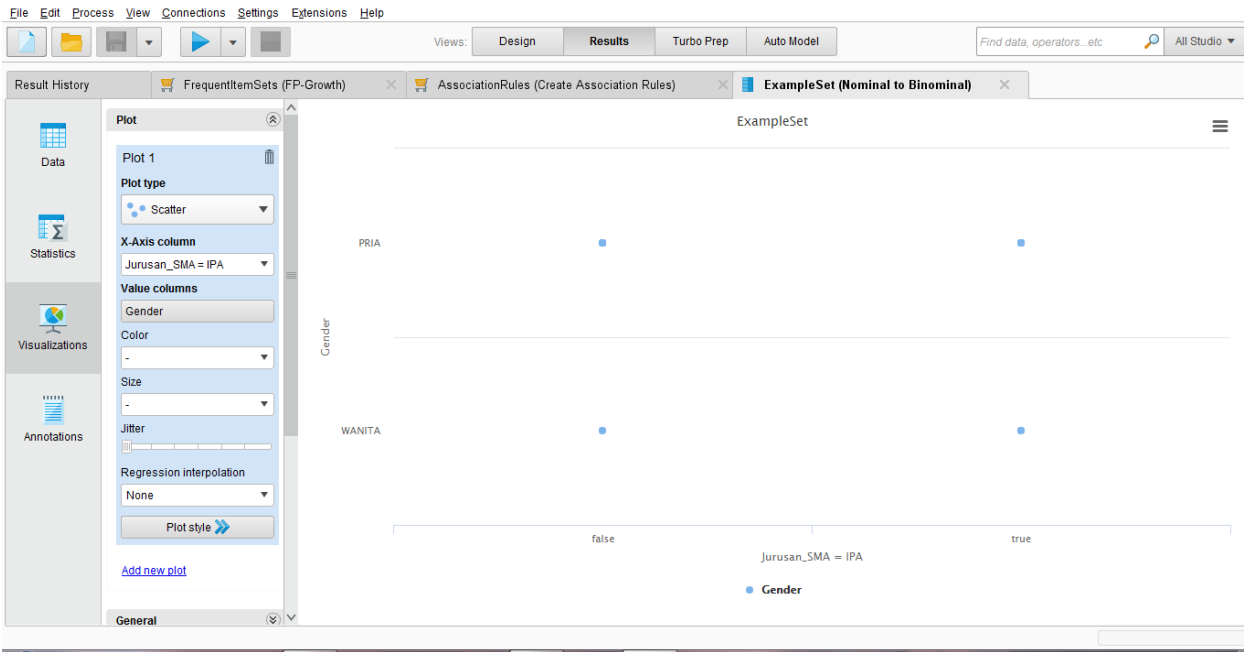
Table View

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

Graph View



Example Set



b. Number of bins = 3
Frequent Item

The screenshot shows the 'FrequentItemSets (FP-Growth)' table. The table has columns: Size, Support, Item 1, and Item 2. The table lists 19 frequent itemsets. The first 10 itemsets have a size of 1, and the remaining 9 have a size of 2. The support values range from 0.750 to 0.200. The items listed include Gender, Jurusan_SMA = IPA, Rerata_Sekolah = range1 [-∞ - 18.500], Rerata_Sekolah = range2 [18.500 - 19.500], Asal_Sekolah, Jurusan_SMA = IPS, Asisten, and Jurusan_SMA = LAIN.

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

Table View

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

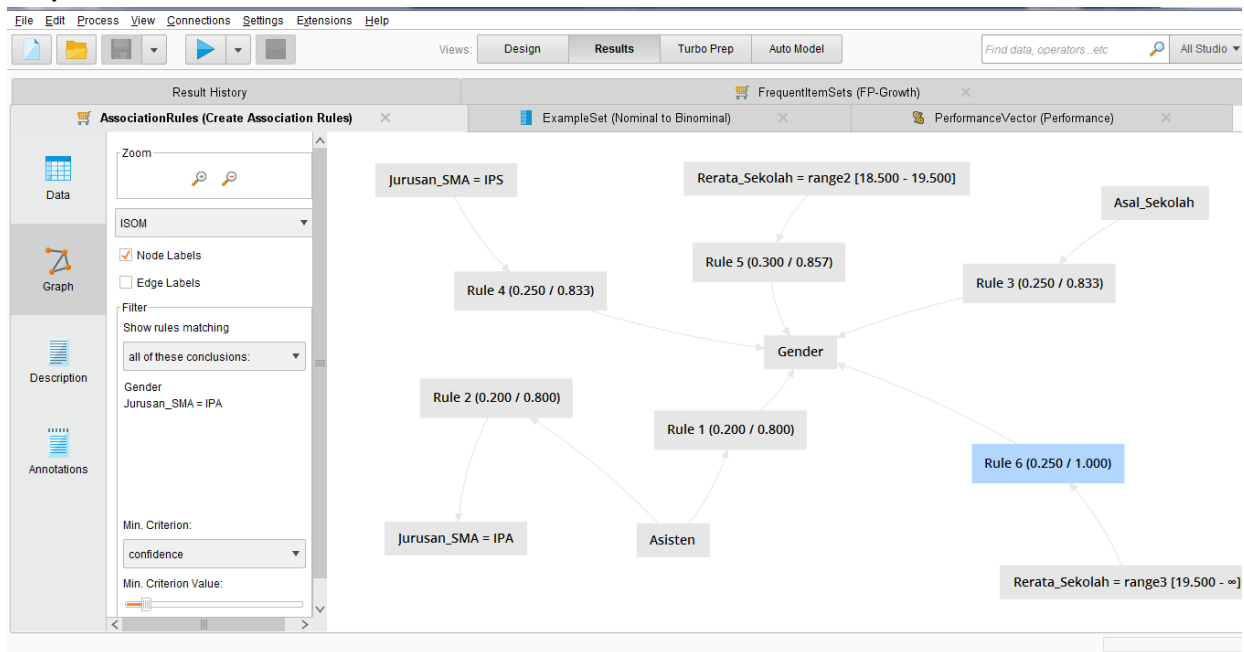
Jurusan_SMA = IPA

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

Graph View



Example Set

