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NIM : L200170014

Kelas : A

## Modul 11

### Induksi dan Aturan Asosiasi

#### A. Langkah – langkah Praktikum

##### 1. Induksi Aturan Data Cuaca

##### RuleModel (Rule Induction)

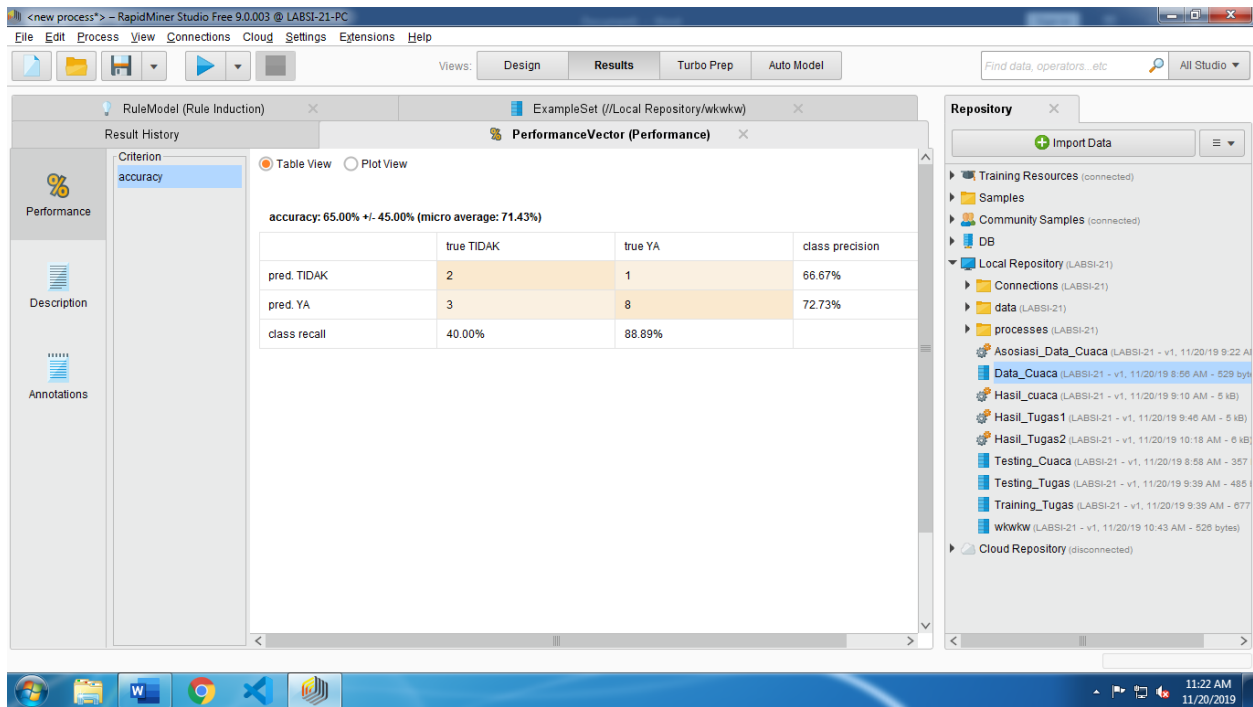
The screenshot displays the RapidMiner Studio interface. The main window shows the 'RuleModel (Rule Induction)' results. The 'Description' tab is active, displaying the following rules and their performance metrics:

```
if Kelembapan_Udara ≤ 82.500 then YA (1 / 6)
if Cuaca = Cerah then TIDAK (3 / 0)
if Cuaca = Mendung then YA (0 / 2)
if Suhu ≤ 70.500 then YA (0 / 1)
else TIDAK (0 / 0)
```

Below the rules, it states: 'correct: 12 out of 13 training examples.'

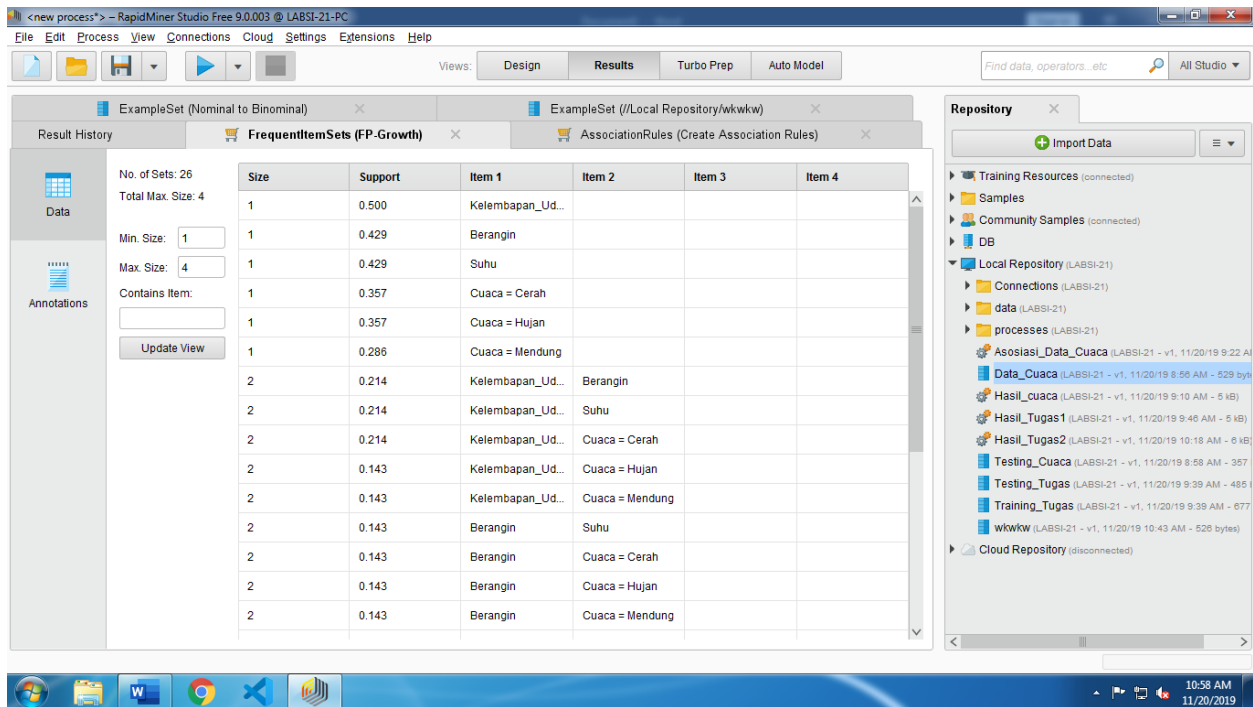
The 'Repository' panel on the right shows the data sources used in the model, including 'Training Resources', 'Samples', 'Community Samples', 'DB', and 'Local Repository (LABSI-21)'. The 'Local Repository' contains various data files and processes, such as 'Asosiasi\_Data\_Cuaca', 'Data\_Cuaca', 'Hasil\_cuaca', 'Hasil\_Tugas1', 'Hasil\_Tugas2', 'Testing\_Cuaca', 'Testing\_Tugas', 'Training\_Tugas', and 'wkwkw'.

## Hasil dari Performance Vektor (Performance)



## 2. Aturan Asosiasi Data Cuaca

### a. Frequent Item Set (FP-Growth)



<new process\*> - RapidMiner Studio Free 9.0.003 @ LABSI-21-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (Nominal to Binominal) ExampleSet (/Local Repository/wkwkw)

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

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
2	0.143	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	Kelembapan_Ud...	Berangin	Suhu	
3	0.071	Kelembapan_Ud...	Berangin	Cuaca = Cerah	
3	0.071	Kelembapan_Ud...	Berangin	Cuaca = Hujan	
3	0.071	Kelembapan_Ud...	Berangin	Cuaca = Mendung	
3	0.143	Kelembapan_Ud...	Suhu	Cuaca = Cerah	
3	0.071	Kelembapan_Ud...	Suhu	Cuaca = Mendung	
3	0.143	Berangin	Suhu	Cuaca = Cerah	
4	0.071	Kelembapan_Ud...	Berangin	Suhu	Cuaca = Cerah

Repository

Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-21)
  - Connections (LABSI-21)
  - data (LABSI-21)
  - processes (LABSI-21)
    - Asosiasi\_Data\_Cuaca (LABSI-21 - v1, 11/20/19 9:22 AM - 529 bytes)
    - Data\_Cuaca (LABSI-21 - v1, 11/20/19 8:56 AM - 529 bytes)
    - Hasil\_cuaca (LABSI-21 - v1, 11/20/19 9:10 AM - 5 KB)
    - Hasil\_Tugas1 (LABSI-21 - v1, 11/20/19 9:46 AM - 5 KB)
    - Hasil\_Tugas2 (LABSI-21 - v1, 11/20/19 10:18 AM - 6 KB)
    - Testing\_Cuaca (LABSI-21 - v1, 11/20/19 8:58 AM - 357 bytes)
    - Testing\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 485 bytes)
    - Training\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 677 bytes)
    - wkwkw (LABSI-21 - v1, 11/20/19 10:43 AM - 528 bytes)
- Cloud Repository (disconnected)

10:58 AM 11/20/2019

## b. Association Rules

### i. Table View

<new process\*> - RapidMiner Studio Free 9.0.003 @ LABSI-21-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (Nominal to Binominal) ExampleSet (/Local Repository/wkwkw)

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

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

No.	Premises	Conclusion
1	Berangin, Suhu	Cuaca = Cerah
2	Berangin, Cuaca = Cerah	Suhu
3	Kelembapan_Udara, Berangin, Suhu	Cuaca = Cerah
4	Kelembapan_Udara, Berangin, Cuaca = Cerah	Suhu

Min. Criterion:  
confidence  
Min. Criterion Value:

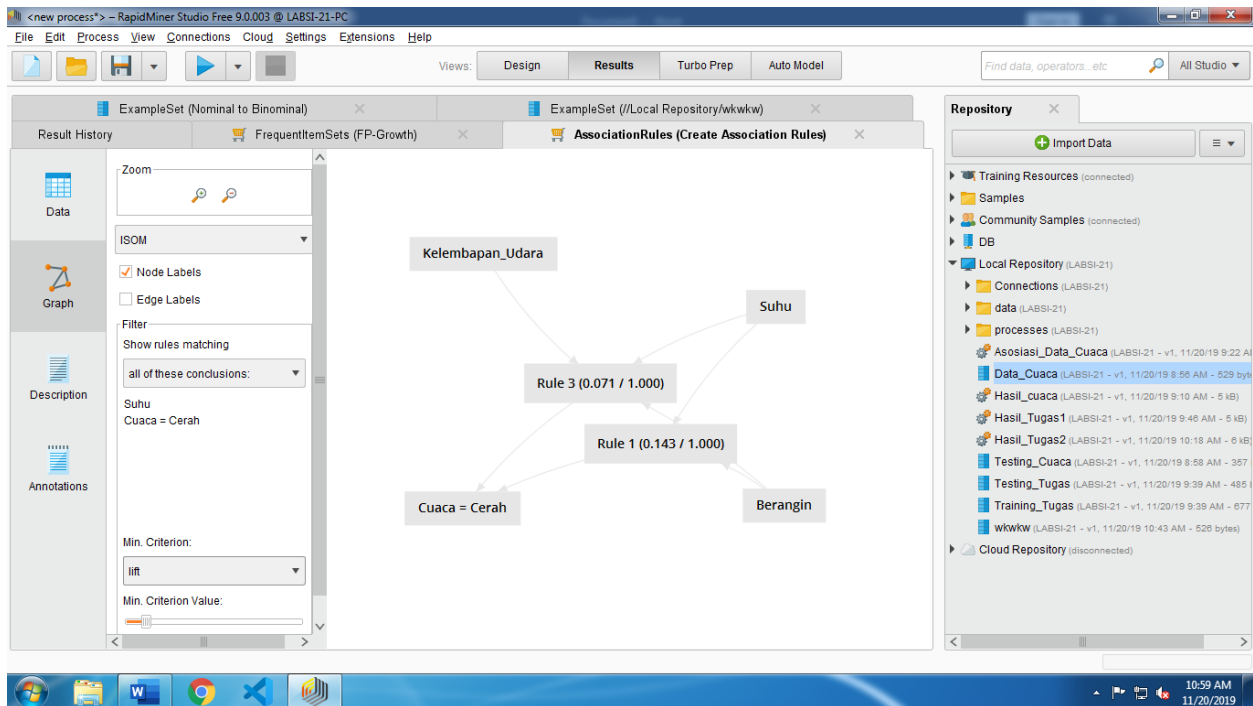
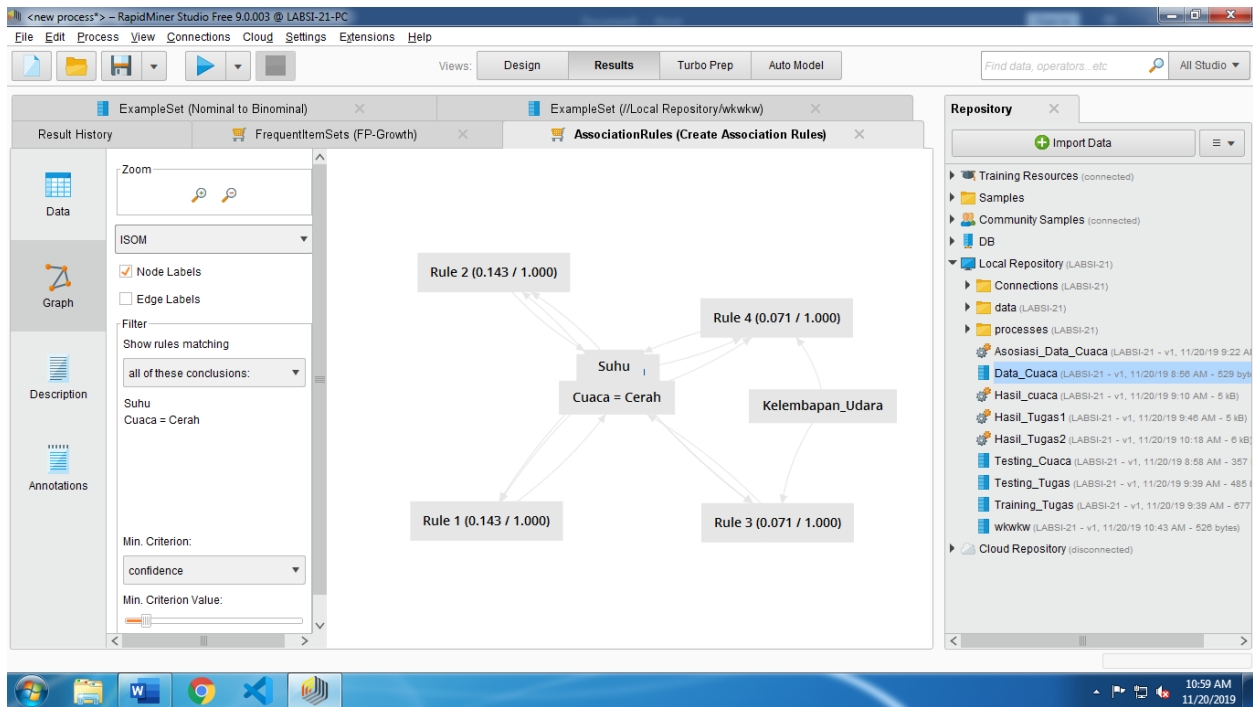
Repository

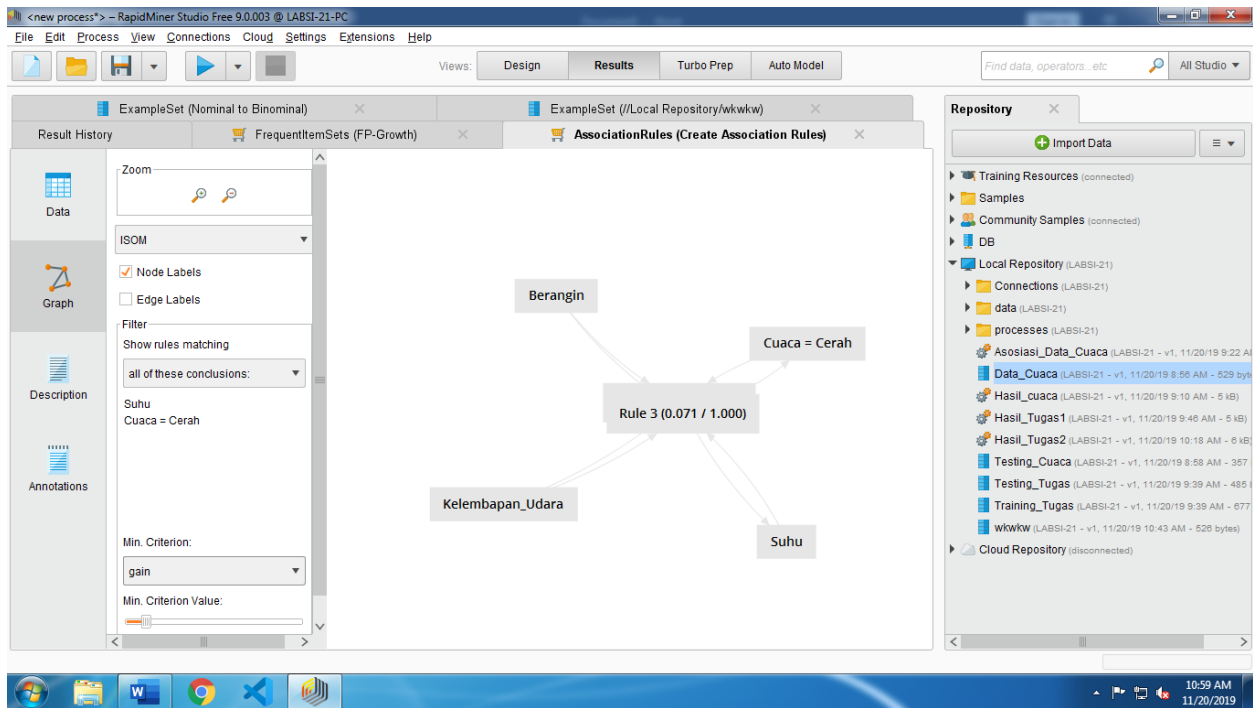
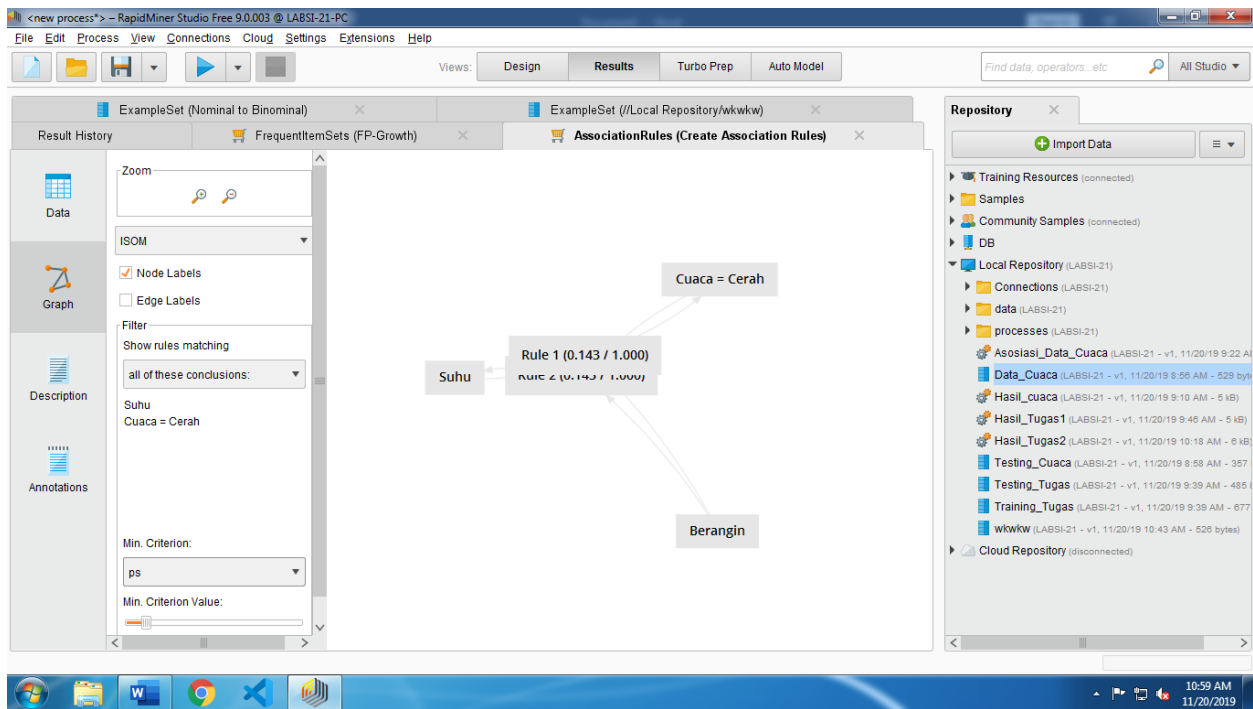
Import Data

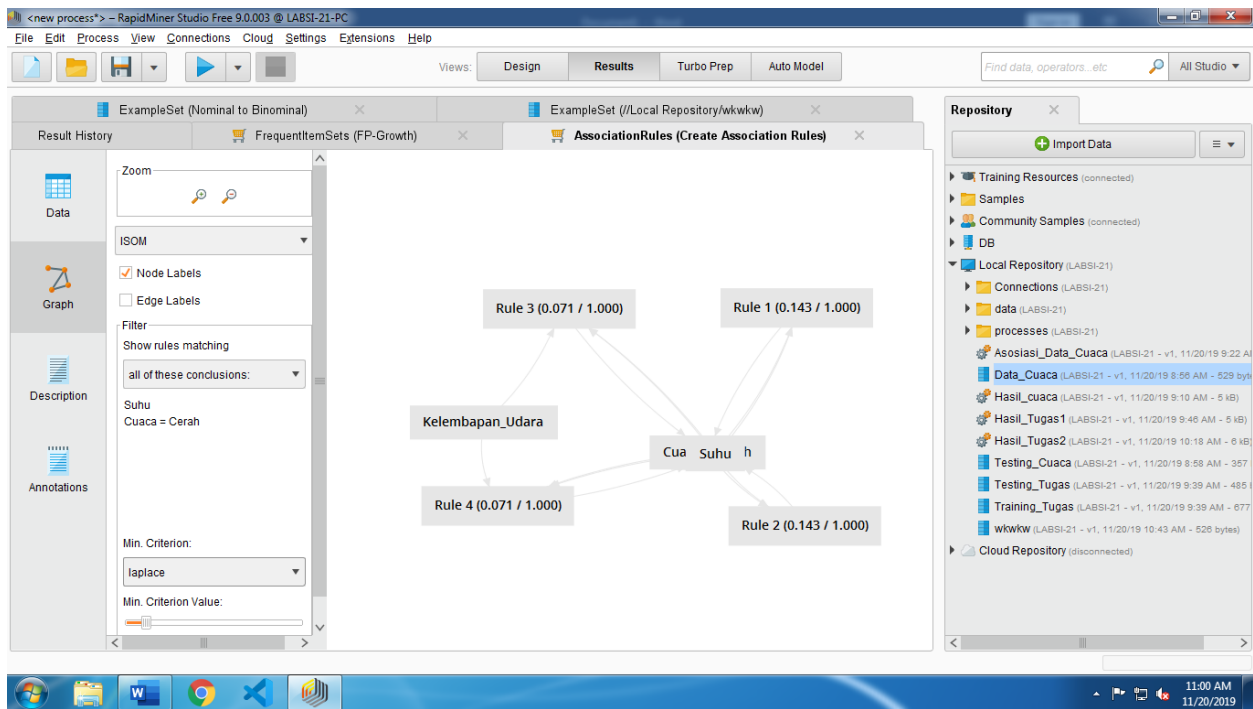
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-21)
  - Connections (LABSI-21)
  - data (LABSI-21)
  - processes (LABSI-21)
    - Asosiasi\_Data\_Cuaca (LABSI-21 - v1, 11/20/19 9:22 AM - 529 bytes)
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    - Hasil\_cuaca (LABSI-21 - v1, 11/20/19 9:10 AM - 5 KB)
    - Hasil\_Tugas1 (LABSI-21 - v1, 11/20/19 9:46 AM - 5 KB)
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    - Testing\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 485 bytes)
    - Training\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 677 bytes)
    - wkwkw (LABSI-21 - v1, 11/20/19 10:43 AM - 528 bytes)
- Cloud Repository (disconnected)

10:58 AM 11/20/2019

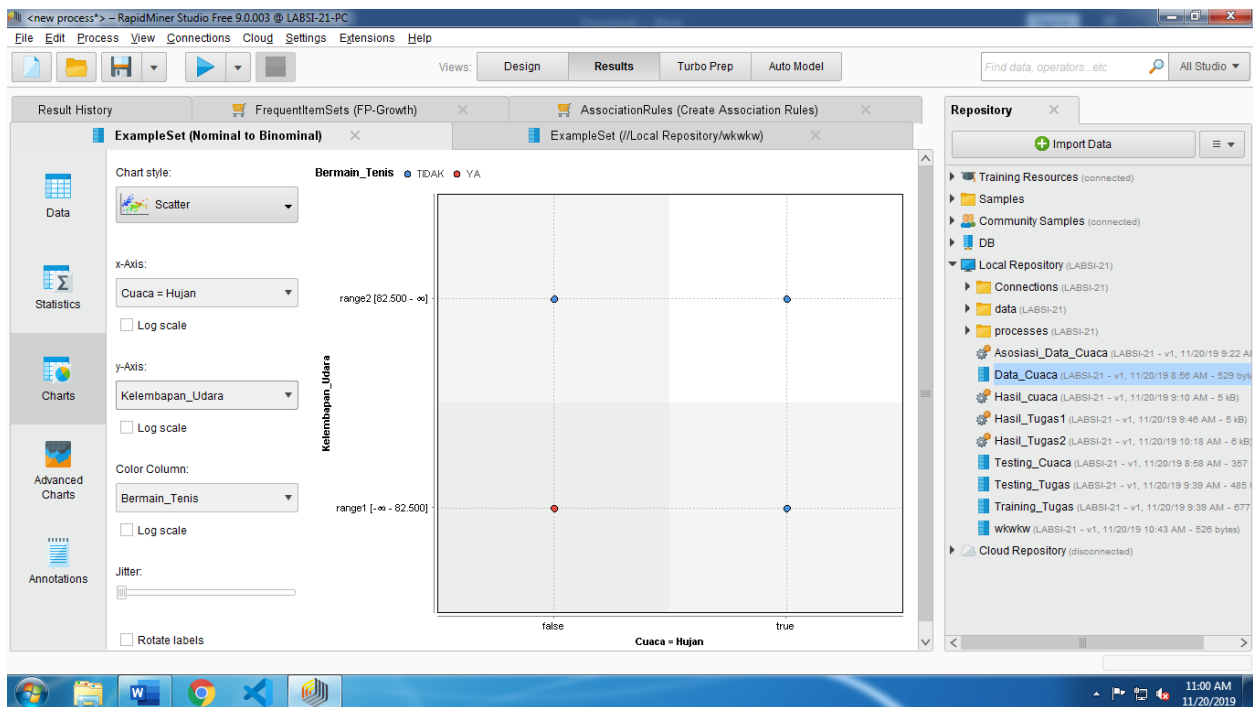
## ii. Graph View







### c. ExampleSet (Nominal2Binomial) → Charts View



## B. Tugas

### 1. Induksi Aturan Data Lama Studi RuleModel (Rule Induction)

The screenshot shows the RapidMiner Studio interface with the 'RuleModel (Rule Induction)' tab selected. The main area displays the following rules and their performance:

```
if Rerata_SKS > 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)
```

correct: 17 out of 19 training examples.

The right sidebar shows the 'Repository' with a list of data sources, including 'Local Repository (LABSI-21)' and 'Cloud Repository (disconnected)'. The bottom status bar indicates the time is 11:03 AM on 11/20/2019.

### Hasil dari Performance Vektor (Performance)

The screenshot shows the RapidMiner Studio interface with the 'PerformanceVector (Performance)' tab selected. The main area displays the following performance metrics:

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%	

The right sidebar shows the 'Repository' with a list of data sources, including 'Local Repository (LABSI-21)' and 'Cloud Repository (disconnected)'. The bottom status bar indicates the time is 11:11 AM on 11/20/2019.

## 2. Aturan Asosiasi Data Lama Studi

### a. Frequent Item Set (FP-Growth)

ExampleSet (Nominal to Binominal) x ExampleSet (/Local Repository/wkww)

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc All Studio

Result History

ExampleSet (Nominal to Binominal) x ExampleSet (/Local Repository/wkww)

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

No. of Sets: 85  
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	0.400	Rerata_SKS =...				
1	0.350	Rerata_SKS =...				
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	0.200	Gender	Rerata_SKS =...			
2	0.300	Gender	Rerata_SKS =...			
2	0.250	Gender	Asal_Sekolah			
2	0.250	Gender	Jurusan_SMA ...			
2	0.200	Gender	Asisten			

Repository

Import Data

Training Resources (connected)

Samples

Community Samples (connected)

DB

Local Repository (LABSI-21)

Connections (LABSI-21)

data (LABSI-21)

processes (LABSI-21)

Asosiasi\_Data\_Cuaca (LABSI-21 - v1, 11/20/19 9:22 AM - 529 bytes)

Data\_Cuaca (LABSI-21 - v1, 11/20/19 8:56 AM - 529 bytes)

Hasil\_cuaca (LABSI-21 - v1, 11/20/19 9:10 AM - 5 KB)

Hasil\_Tugas1 (LABSI-21 - v1, 11/20/19 9:46 AM - 5 KB)

Hasil\_Tugas2 (LABSI-21 - v1, 11/20/19 10:18 AM - 6 KB)

Testing\_Cuaca (LABSI-21 - v1, 11/20/19 8:58 AM - 357 bytes)

Testing\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 485 bytes)

Training\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 677 bytes)

wkww (LABSI-21 - v1, 11/20/19 10:43 AM - 528 bytes)

Cloud Repository (disconnected)

ExampleSet (Nominal to Binominal) x ExampleSet (/Local Repository/wkww)

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc All Studio

Result History

ExampleSet (Nominal to Binominal) x ExampleSet (/Local Repository/wkww)

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

No. of Sets: 85  
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	0.350	Gender	Jurusan_SMA ...			
2	0.200	Gender	Rerata_SKS =...			
2	0.300	Gender	Rerata_SKS =...			
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	0.200	Jurusan_SMA ...	Rerata_SKS =...			
2	0.200	Jurusan_SMA ...	Rerata_SKS =...			
2	0.150	Jurusan_SMA ...	Asal_Sekolah			
2	0.200	Jurusan_SMA ...	Asisten			
2	0.100	Jurusan_SMA ...	Rerata_SKS =...			
2	0.150	Rerata_SKS =...	Asal_Sekolah			
2	0.100	Rerata_SKS =...	Jurusan_SMA ...			
2	0.050	Rerata_SKS =...	Asisten			

Repository

Import Data

Training Resources (connected)

Samples

Community Samples (connected)

DB

Local Repository (LABSI-21)

Connections (LABSI-21)

data (LABSI-21)

processes (LABSI-21)

Asosiasi\_Data\_Cuaca (LABSI-21 - v1, 11/20/19 9:22 AM - 529 bytes)

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Training\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 677 bytes)

wkww (LABSI-21 - v1, 11/20/19 10:43 AM - 528 bytes)

Cloud Repository (disconnected)



<new process> - RapidMiner Studio Free 9.0.003 @ LABSI-21-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (Nominal to Binominal) ExampleSet (/Local Repository/wkwkw)

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

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	0.400	Rerata_SKS = range1 [-∞ - 1...	
1	0.350	Rerata_SKS = range2 [18.50...	
1	0.300	Asal_Sekolah	
1	0.300	Jurusan_SMA = IPS	
1	0.250	Asisten	
1	0.250	Rerata_SKS = range3 [19.50...	
2	0.350	Gender	Jurusan_SMA = IPA
2	0.300	Gender	Rerata_SKS = range2 [18.50...
2	0.250	Gender	Asal_Sekolah
2	0.250	Gender	Jurusan_SMA = IPS
2	0.250	Gender	Rerata_SKS = range3 [19.50...

Repository

Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-21)
  - Connections (LABSI-21)
  - data (LABSI-21)
  - processes (LABSI-21)
    - Asosiasi\_Data\_Cuaca (LABSI-21 - v1, 11/20/19 9:22 AM - 529 bytes)
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    - Hasil\_cuaca (LABSI-21 - v1, 11/20/19 9:10 AM - 5 KB)
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    - Training\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 677 bytes)
    - wkwkw (LABSI-21 - v1, 11/20/19 10:43 AM - 528 bytes)
- Cloud Repository (disconnected)

<new process> - RapidMiner Studio Free 9.0.003 @ LABSI-21-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (Nominal to Binominal) ExampleSet (/Local Repository/wkwkw)

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

Data Annotations

No. of Sets: 10  
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_SKS	
2	0.350	Gender	Jurusan_SMA = IPA
2	0.250	Gender	Asal_Sekolah
2	0.250	Gender	Jurusan_SMA = IPS
2	0.250	Gender	Rerata_SKS

Repository

Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-21)
  - Connections (LABSI-21)
  - data (LABSI-21)
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    - Asosiasi\_Data\_Cuaca (LABSI-21 - v1, 11/20/19 9:22 AM - 529 bytes)
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    - wkwkw (LABSI-21 - v1, 11/20/19 10:43 AM - 528 bytes)
- Cloud Repository (disconnected)

## b. Association Rules

### i. Table View

Result History

AssociationRules (Create Association Rules) x

ExampleSet (Nominal to Binominal) x

FrequentItemSets (FP-Growth) x

PerformanceVector (Performance) x

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

10:06 AM  
11/20/2019

Result History

AssociationRules (Create Association Rules) x

ExampleSet (Nominal to Binominal) x

FrequentItemSets (FP-Growth) x

PerformanceVector (Performance) x

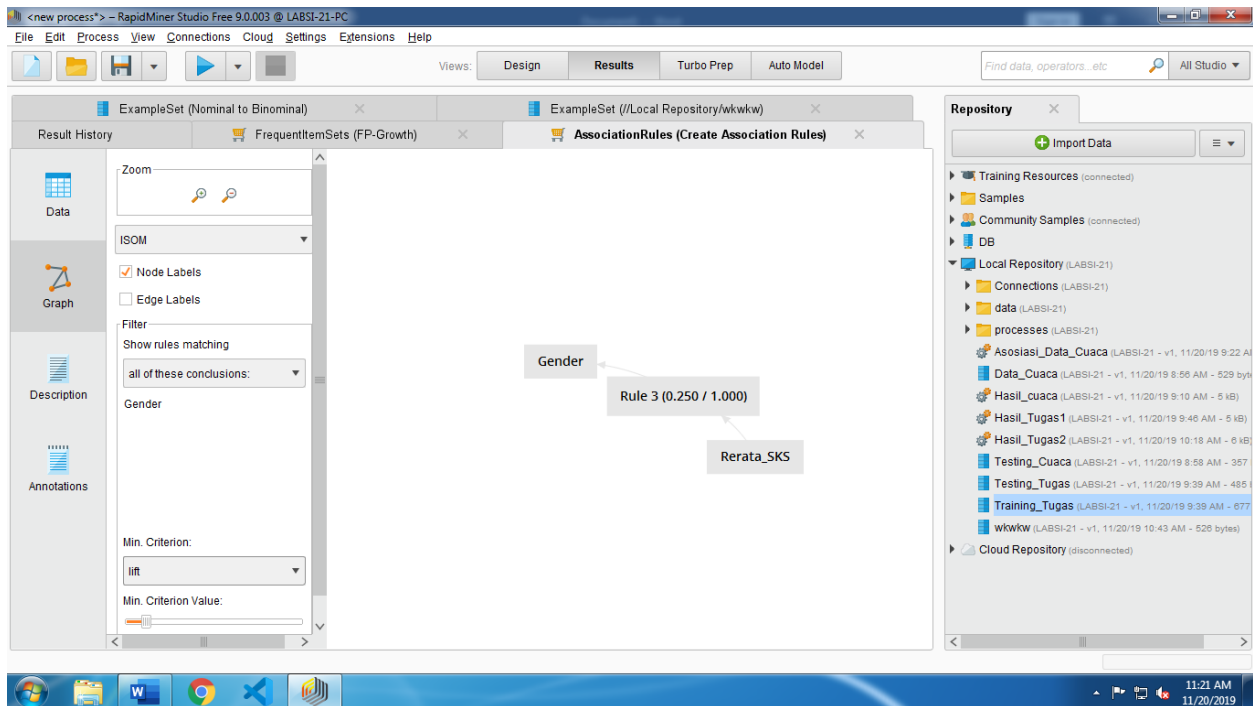
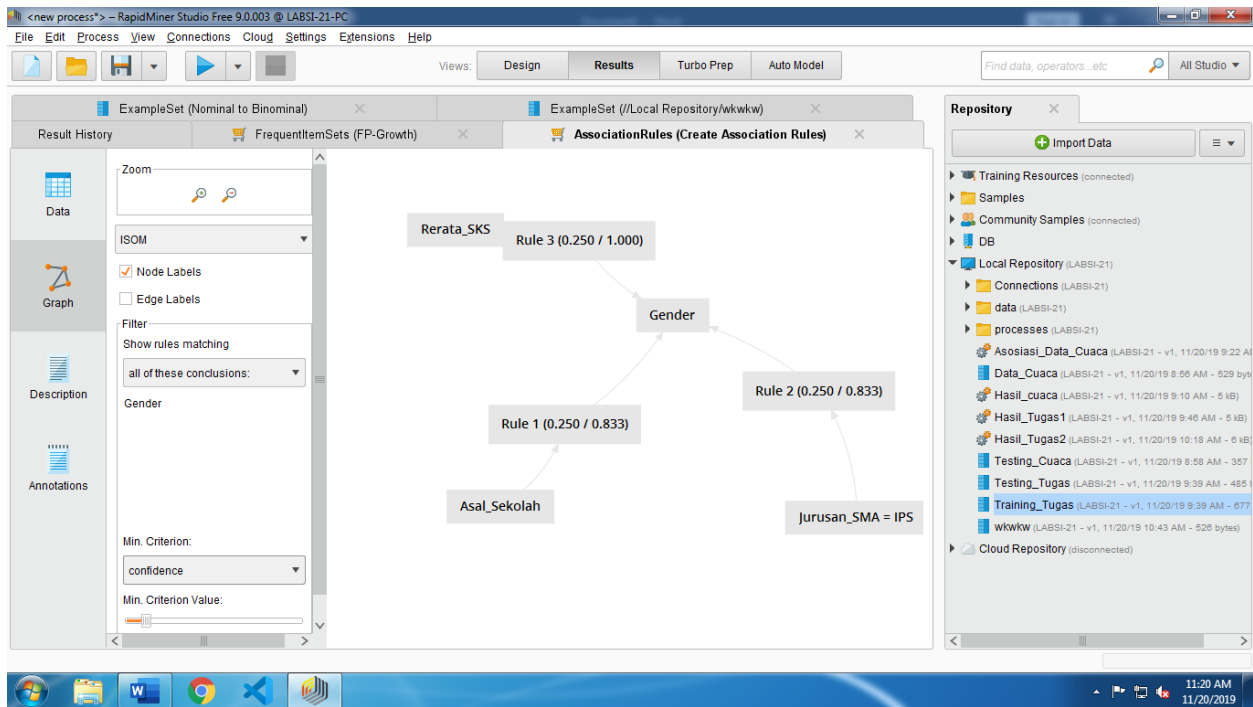
Show rules matching  
all of these conclusions: ▼  
Gender  
Jurusan\_SMA = IPA

Min. Criterion:  
confidence ▼  
Min. Criterion Value:

	Conclusion	Support	Confidence	LaPlace	Gain	p-s	Lift	Convict...
	Gender	0.250	0.833	0.962	-0.350	0.025	1.111	1.500
	Gender	0.250	0.833	0.962	-0.350	0.025	1.111	1.500
i2 [18.500 - 19.500]	Gender	0.300	0.857	0.963	-0.400	0.038	1.143	1.750
i3 [19.500 - ∞]	Gender	0.250	1	1	-0.250	0.062	1.333	∞

10:07 AM  
11/20/2019

## ii. Graph View



ExampleSet (Nominal to Binominal) ExampleSet (/Local Repository/wkwkw)

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

Zoom ISOM

Node Labels Edge Labels

Filter Show rules matching all of these conclusions: Gender

Min. Criterion: conviction Min. Criterion Value:

Jurusan\_SMA = IPS Rule 2 (0.250 / 0.833) Gender Rule 1 (0.250 / 0.833) Asal\_Sekolah Rule 3 (0.250 / 1.000) Rerata\_SKS

Repository

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-21)
  - Connections (LABSI-21)
  - data (LABSI-21)
  - processes (LABSI-21)
    - Asosiasi\_Data\_Cuaca (LABSI-21 - v1, 11/20/19 9:22 AM - 529 bytes)
    - Data\_Cuaca (LABSI-21 - v1, 11/20/19 8:56 AM - 529 bytes)
    - Hasil\_cuaca (LABSI-21 - v1, 11/20/19 9:10 AM - 5 KB)
    - Hasil\_Tugas1 (LABSI-21 - v1, 11/20/19 9:46 AM - 5 KB)
    - Hasil\_Tugas2 (LABSI-21 - v1, 11/20/19 10:18 AM - 6 KB)
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    - Training\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 677 bytes)
    - wkwkw (LABSI-21 - v1, 11/20/19 10:43 AM - 528 bytes)
- Cloud Repository (disconnected)

11:21 AM 11/20/2019

ExampleSet (Nominal to Binominal) ExampleSet (/Local Repository/wkwkw)

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

Zoom ISOM

Node Labels Edge Labels

Filter Show rules matching all of these conclusions: Gender

Min. Criterion: The item 'Gender' ps Min. Criterion Value:

Rerata\_SKS Rule 3 (0.250 / 1.000) Gender

Repository

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-21)
  - Connections (LABSI-21)
  - data (LABSI-21)
  - processes (LABSI-21)
    - Asosiasi\_Data\_Cuaca (LABSI-21 - v1, 11/20/19 9:22 AM - 529 bytes)
    - Data\_Cuaca (LABSI-21 - v1, 11/20/19 8:56 AM - 529 bytes)
    - Hasil\_cuaca (LABSI-21 - v1, 11/20/19 9:10 AM - 5 KB)
    - Hasil\_Tugas1 (LABSI-21 - v1, 11/20/19 9:46 AM - 5 KB)
    - Hasil\_Tugas2 (LABSI-21 - v1, 11/20/19 10:18 AM - 6 KB)
    - Testing\_Cuaca (LABSI-21 - v1, 11/20/19 8:58 AM - 357 bytes)
    - Testing\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 485 bytes)
    - Training\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 677 bytes)
    - wkwkw (LABSI-21 - v1, 11/20/19 10:43 AM - 528 bytes)
- Cloud Repository (disconnected)

11:21 AM 11/20/2019

new process\* - RapidMiner Studio Free 9.0.003 @ LABSI-21-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (Nominal to Binominal) ExampleSet (/Local Repository/wkwkw)

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

Data Graph Description Annotations

Zoom

ISOM

☒ Node Labels

☐ Edge Labels

Filter

Show rules matching

all of these conclusions:

Gender

Min. Criterion: gain

Min. Criterion Value:

Rerata\_SKS Rule 3 (0.250 / 1.000) Gender

Repository

Import Data

Training Resources (connected)

Samples

Community Samples (connected)

DB

Local Repository (LABSI-21)

Connections (LABSI-21)

data (LABSI-21)

processes (LABSI-21)

Asosiasi\_Data\_Cuaca (LABSI-21 - v1, 11/20/19 9:22 AM - 529 bytes)

Data\_Cuaca (LABSI-21 - v1, 11/20/19 8:56 AM - 529 bytes)

Hasil\_cuaca (LABSI-21 - v1, 11/20/19 9:10 AM - 5 KB)

Hasil\_Tugas1 (LABSI-21 - v1, 11/20/19 9:46 AM - 5 KB)

Hasil\_Tugas2 (LABSI-21 - v1, 11/20/19 10:18 AM - 6 KB)

Testing\_Cuaca (LABSI-21 - v1, 11/20/19 8:58 AM - 357 bytes)

Testing\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 485 bytes)

Training\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 677 bytes)

wkwkw (LABSI-21 - v1, 11/20/19 10:43 AM - 528 bytes)

Cloud Repository (disconnected)

11:21 AM 11/20/2019

new process\* - RapidMiner Studio Free 9.0.003 @ LABSI-21-PC

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (Nominal to Binominal) ExampleSet (/Local Repository/wkwkw)

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

Data Graph Description Annotations

Zoom

ISOM

☒ Node Labels

☐ Edge Labels

Filter

Show rules matching

all of these conclusions:

Gender

Min. Criterion: laplace

Min. Criterion Value:

Rerata\_SKS Rule 3 (0.250 / 1.000) Gender

Repository

Import Data

Training Resources (connected)

Samples

Community Samples (connected)

DB

Local Repository (LABSI-21)

Connections (LABSI-21)

data (LABSI-21)

processes (LABSI-21)

Asosiasi\_Data\_Cuaca (LABSI-21 - v1, 11/20/19 9:22 AM - 529 bytes)

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Training\_Tugas (LABSI-21 - v1, 11/20/19 9:39 AM - 677 bytes)

wkwkw (LABSI-21 - v1, 11/20/19 10:43 AM - 528 bytes)

Cloud Repository (disconnected)

11:21 AM 11/20/2019

### c. ExampleSet (Nominal2Binomial) → Charts View

