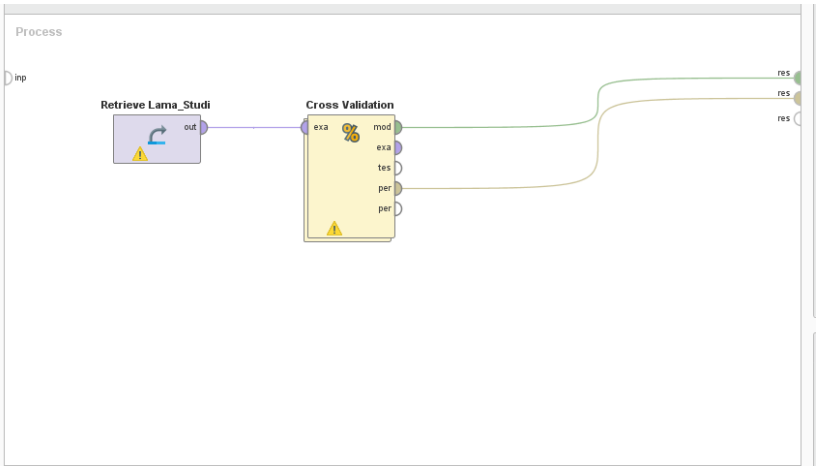
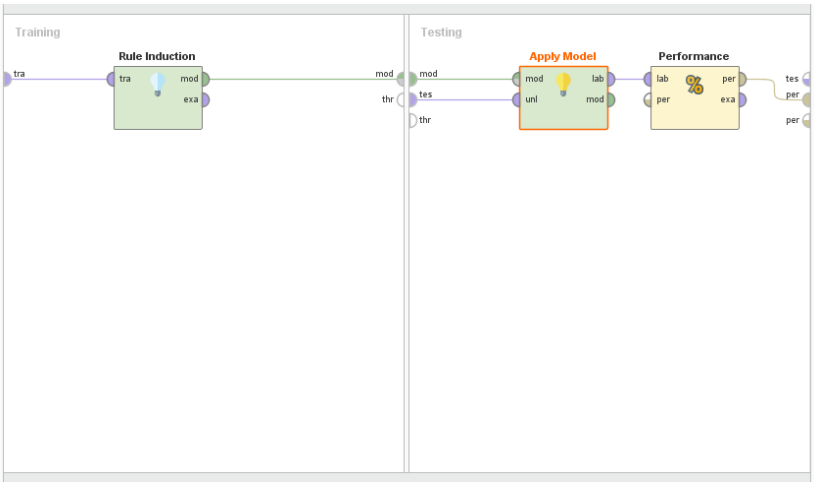
Nama : Nur Aini Afdallah

NIM : L200170107

# MODUL 11 TUGAS

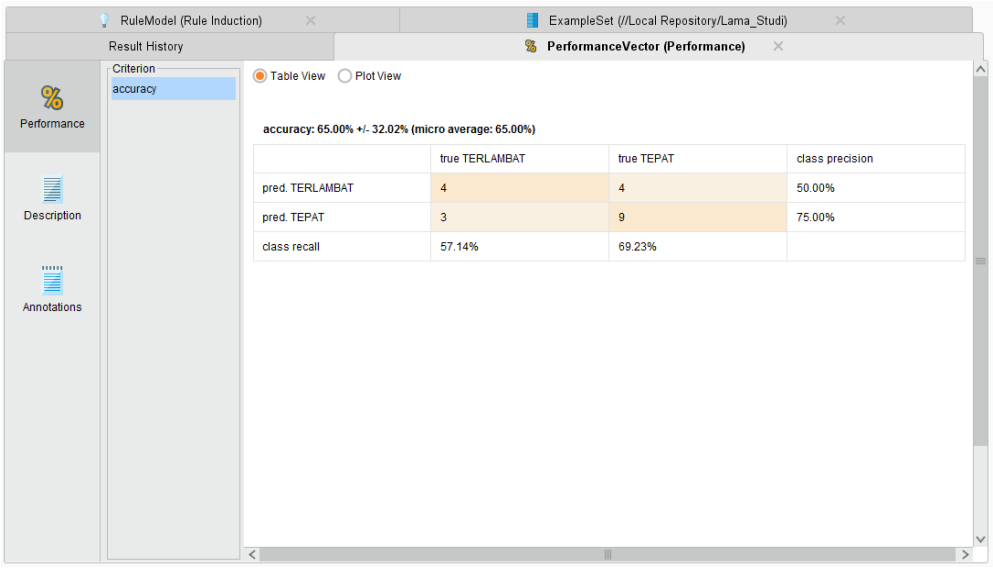
1. Rule Model dan Nilai Performance Vector



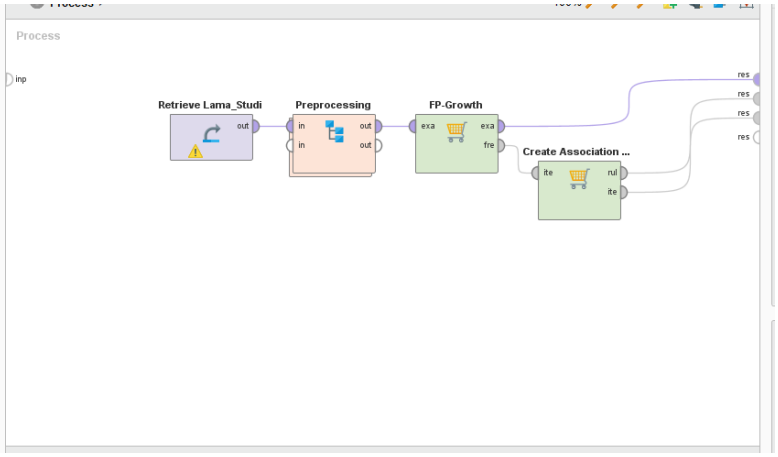



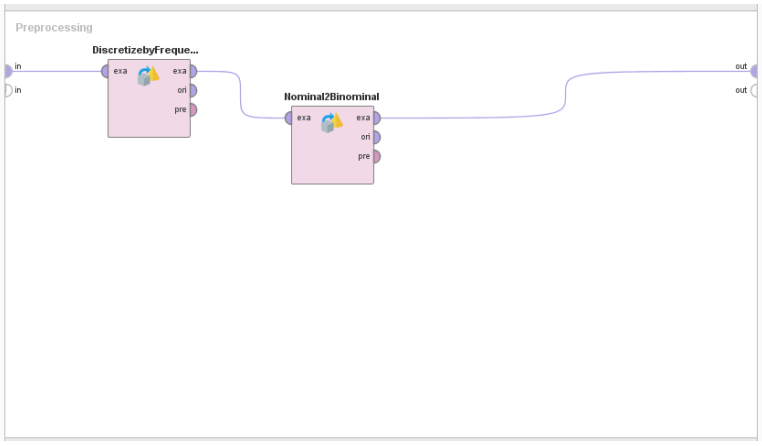

## RuleModel

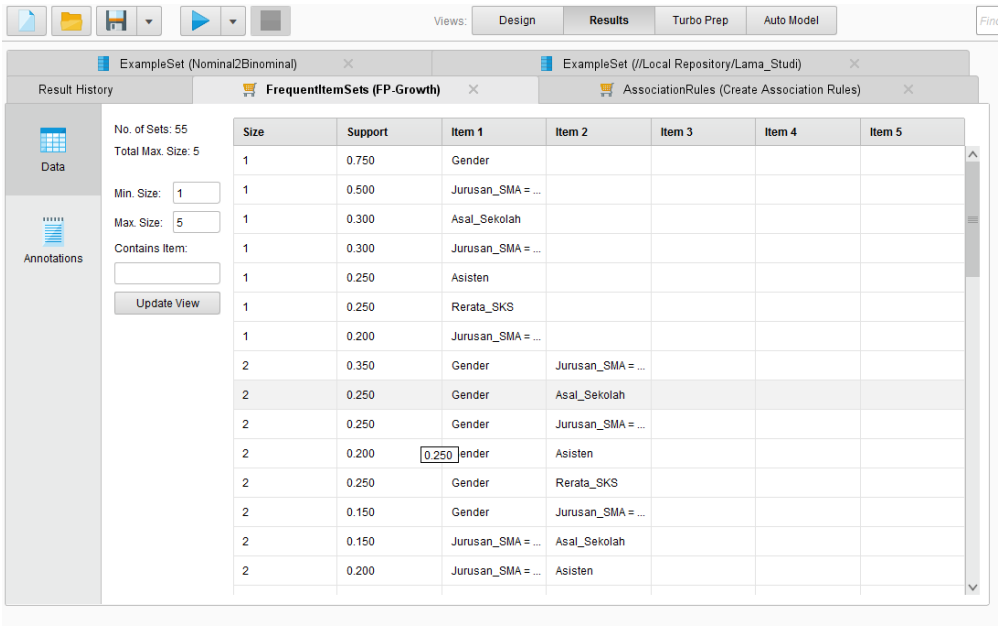
```
if Rerata_SKS > 18.500 then TEPAT  (2 / 10)
if Gender = PRIA then TERLAMBAT  (4 / 0)
if Jurusan_SMA = IPA then TEPAT  (0 / 2)
if Jurusan_SMA = IPS then TERLAMBAT  (1 / 0)
else TEPAT  (0 / 0)

correct: 17 out of 19 training examples.
```

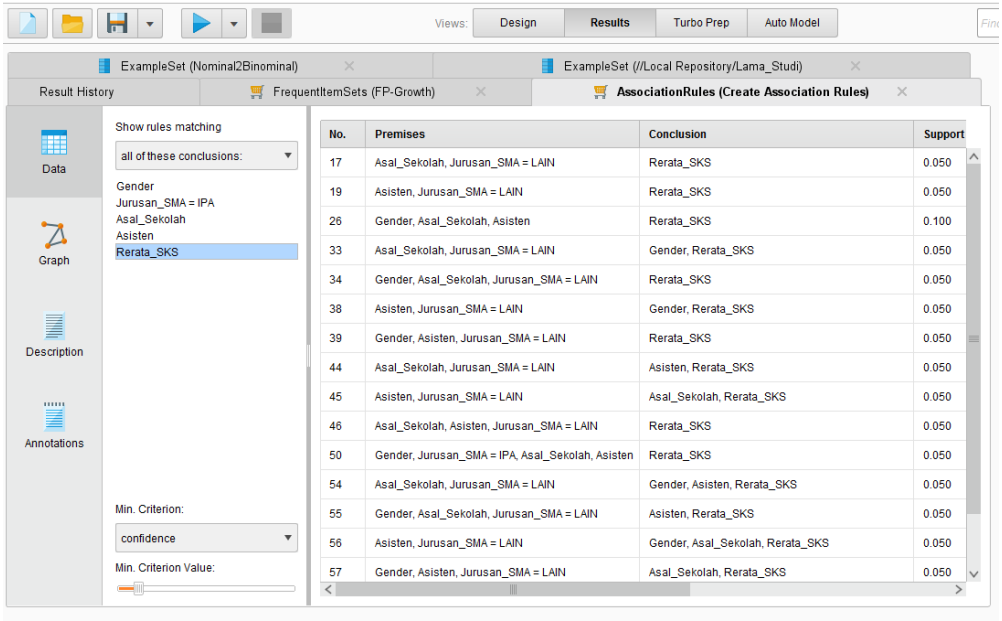


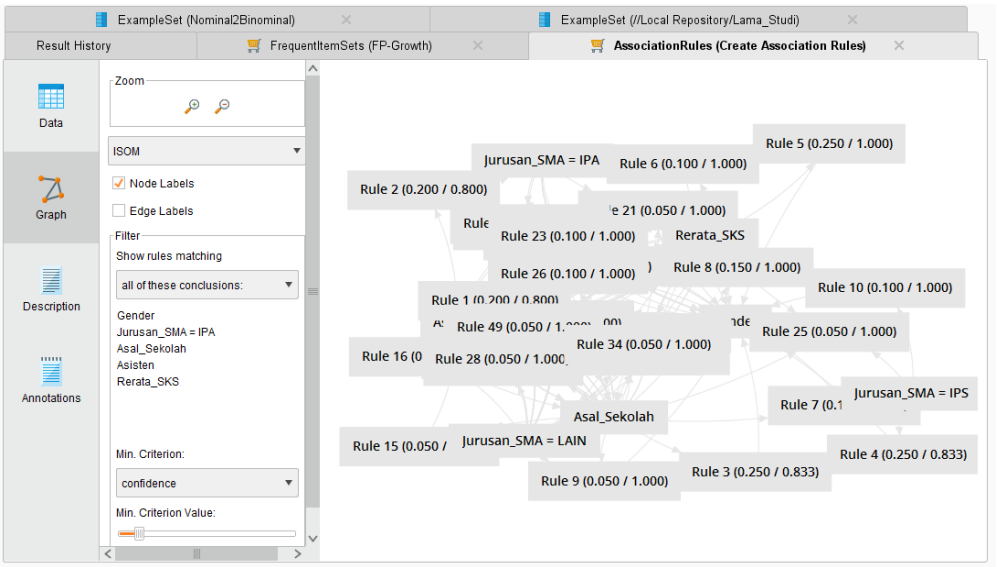

2. Nilai :
   a) *number of bins* = 2

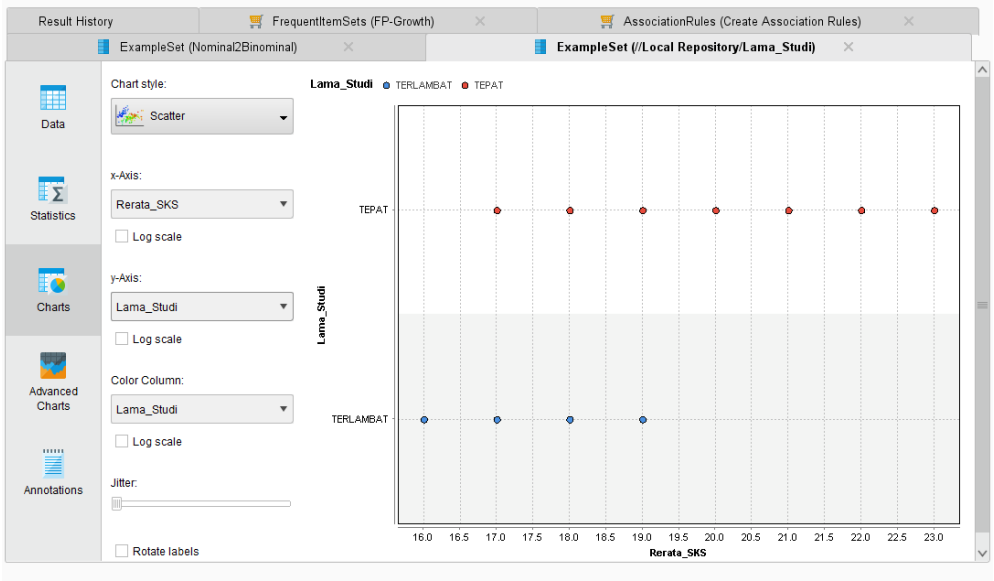


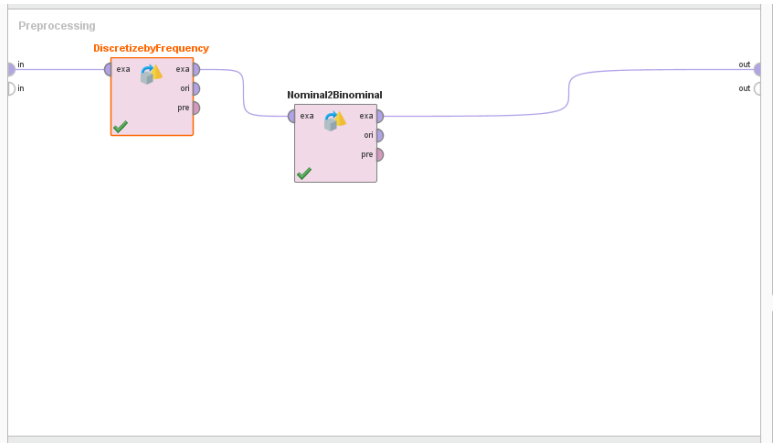

Views:
Design
Results
Turbo Prep
Auto Model
ExampleSet (Nominal2Binominal)
ExampleSet (//Local Repository/Lama_Studi)
Result History
FrequentItemSets (FP-Growth)
AssociationRules (Create Association Rules)
Data
Annotations
No. of Sets: 55
Total Max. Size: 5
Min. Size: 1
Max. Size: 5
Contains Item:
Update View
Size
Support
Item 1
Item 2
Item 3
Item 4
Item 5
1 0.750 Gender
1 0.500 Jurusan_SMA = ...
1 0.300 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 0.250 Gender Asal_Sekolah
2 0.250 Gender Jurusan_SMA = ...
2 0.200 0.250 ender Asisten
2 0.250 Gender Rerata_SKS
2 0.150 Gender Jurusan_SMA = ...
2 0.150 Jurusan_SMA = ... Asal_Sekolah
2 0.200 Jurusan_SMA = ... Asisten

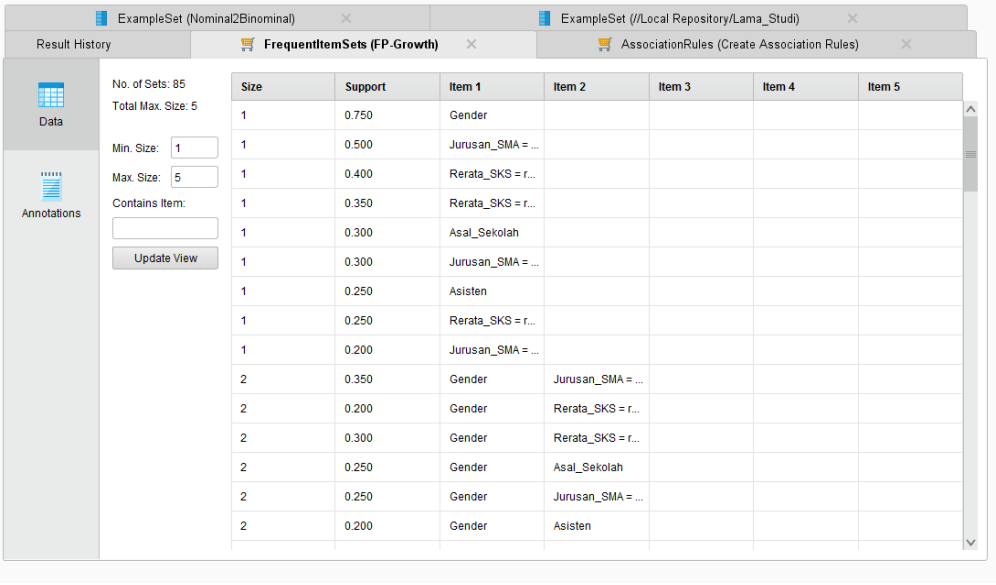

Views:
Design
Results
Turbo Prep
Auto Model
ExampleSet (Nominal2Binominal)
ExampleSet (//Local Repository/Lama_Studi)
Result History
FrequentItemSets (FP-Growth)
AssociationRules (Create Association Rules)
Data
Graph
Description
Annotations
Show rules matching
all of these conclusions:
Gender
Jurusan_SMA = IPA
Asal_Sekolah
Asisten
Rerata_SKS
Min. Criterion:
confidence
Min. Criterion Value:
No. Premises Conclusion Support
17 Asal_Sekolah, Jurusan_SMA = LAIN Rerata_SKS 0.050
19 Asisten, Jurusan_SMA = LAIN Rerata_SKS 0.050
26 Gender, Asal_Sekolah, Asisten Rerata_SKS 0.100
33 Asal_Sekolah, Jurusan_SMA = LAIN Gender, Rerata_SKS 0.050
34 Gender, Asal_Sekolah, Jurusan_SMA = LAIN Rerata_SKS 0.050
38 Asisten, Jurusan_SMA = LAIN Gender, Rerata_SKS 0.050
39 Gender, Asisten, Jurusan_SMA = LAIN Rerata_SKS 0.050
44 Asal_Sekolah, Jurusan_SMA = LAIN Asisten, Rerata_SKS 0.050
45 Asisten, Jurusan_SMA = LAIN Asal_Sekolah, Rerata_SKS 0.050
46 Asal_Sekolah, Asisten, Jurusan_SMA = LAIN Rerata_SKS 0.050
50 Gender, Jurusan_SMA = IPA, Asal_Sekolah, Asisten Rerata_SKS 0.050
54 Asal_Sekolah, Jurusan_SMA = LAIN Gender, Asisten, Rerata_SKS 0.050
55 Gender, Asal_Sekolah, Jurusan_SMA = LAIN Asisten, Rerata_SKS 0.050
56 Asisten, Jurusan_SMA = LAIN Gender, Asal_Sekolah, Rerata_SKS 0.050
57 Gender, Asisten, Jurusan_SMA = LAIN Asal_Sekolah, Rerata_SKS 0.050



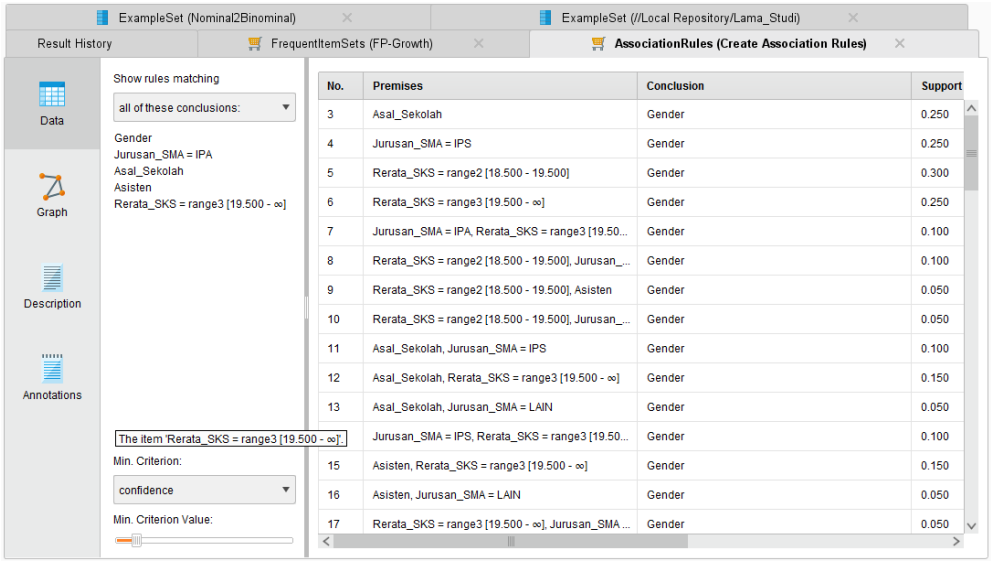




b) *number of bins* = 3

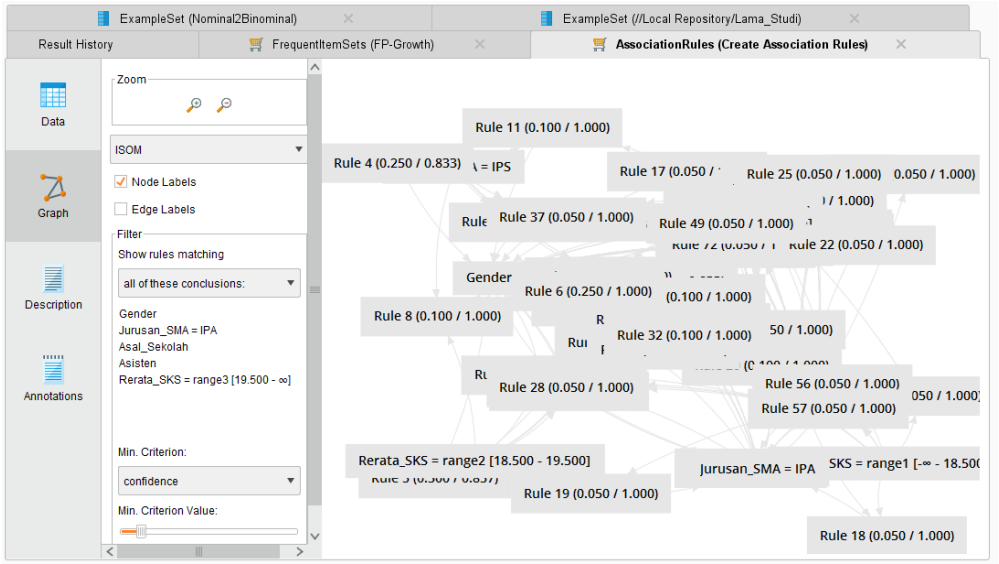


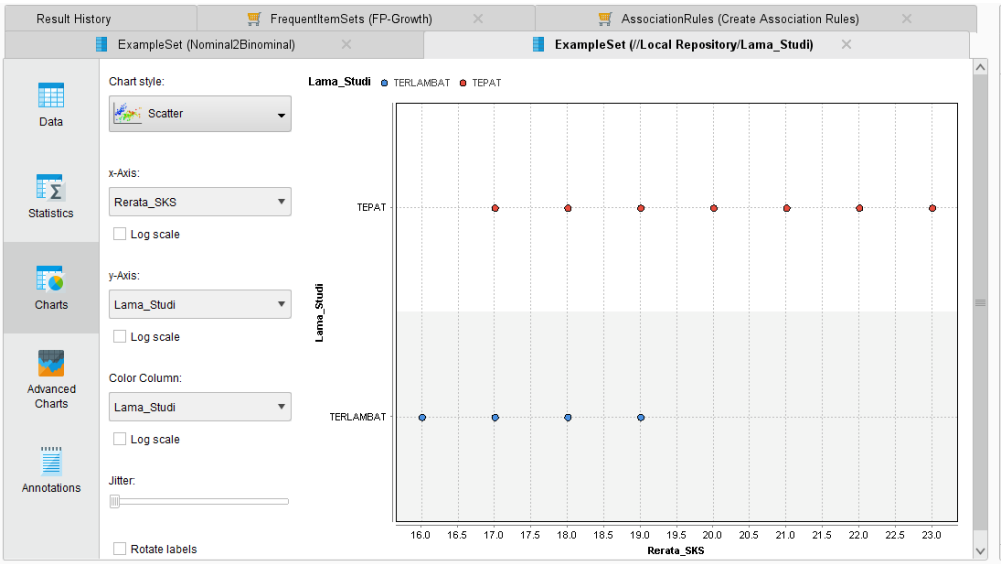



| Size | Support | Item 1 | Item 2 | Item 3 | Item 4 | Item 5 |
|---|---|---|---|---|---|---|
| 1 | 0.750 | Gender | | | | |
| 1 | 0.500 | Jurusan_SMA = ... | | | | |
| 1 | 0.400 | Rerata_SKS = r... | | | | |
| 1 | 0.350 | Rerata_SKS = r... | | | | |
| 1 | 0.300 | Asal_Sekolah | | | | |
| 1 | 0.300 | Jurusan_SMA = ... | | | | |
| 1 | 0.250 | Asisten | | | | |
| 1 | 0.250 | Rerata_SKS = r... | | | | |
| 1 | 0.200 | Jurusan_SMA = ... | | | | |
| 2 | 0.350 | Gender | Jurusan_SMA = ... | | | |
| 2 | 0.200 | Gender | Rerata_SKS = r... | | | |
| 2 | 0.300 | Gender | Rerata_SKS = r... | | | |
| 2 | 0.250 | Gender | Asal_Sekolah | | | |
| 2 | 0.250 | Gender | Jurusan_SMA = ... | | | |
| 2 | 0.200 | Gender | Asisten | | | |




| No. | Premises | Conclusion | Support |
|---|---|---|---|
| 3 | Asal_Sekolah | Gender | 0.250 |
| 4 | Jurusan_SMA = IPS | Gender | 0.250 |
| 5 | Rerata_SKS = range2 [18.500 - 19.500] | Gender | 0.300 |
| 6 | Rerata_SKS = range3 [19.500 - ∞] | Gender | 0.250 |
| 7 | Jurusan_SMA = IPA, Rerata_SKS = range3 [19.50... | Gender | 0.100 |
| 8 | Rerata_SKS = range2 [18.500 - 19.500], Jurusan_... | Gender | 0.100 |
| 9 | Rerata_SKS = range2 [18.500 - 19.500], Asisten | Gender | 0.050 |
| 10 | Rerata_SKS = range2 [18.500 - 19.500], Jurusan_... | Gender | 0.050 |
| 11 | Asal_Sekolah, Jurusan_SMA = IPS | Gender | 0.100 |
| 12 | Asal_Sekolah, Rerata_SKS = range3 [19.500 - ∞] | Gender | 0.150 |
| 13 | Asal_Sekolah, Jurusan_SMA = LAIN | Gender | 0.050 |
| 14 | Jurusan_SMA = IPS, Rerata_SKS = range3 [19.50... | Gender | 0.100 |
| 15 | Asisten, Rerata_SKS = range3 [19.500 - ∞] | Gender | 0.150 |
| 16 | Asisten, Jurusan_SMA = LAIN | Gender | 0.050 |
| 17 | Rerata_SKS = range3 [19.500 - ∞], Jurusan_SMA ... | Gender | 0.050 |


ExampleSet (Nominal2Binominal)
ExampleSet (//Local Repository/Lama_Studi)
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
Jurusan_SMA = IPA
Asal_Sekolah
Asisten
Rerata_SKS = range3 [19.500 - ∞]
Min. Criterion:
confidence
Min. Criterion Value:
Rule 11 (0.100 / 1.000)
Rule 4 (0.250 / 0.833)
Rule 17 (0.050 /
Rule 25 (0.050 / 1.000)
0.050 / 1.000)
Rule 37 (0.050 / 1.000)
Rule 49 (0.050 / 1.000)
Rule 22 (0.050 / 1.000)
Gender
Rule 6 (0.250 / 1.000)
(0.100 / 1.000)
Rule 8 (0.100 / 1.000)
Rule 32 (0.100 / 1.000)
50 / 1.000)
Rule 28 (0.050 / 1.000)
Rule 56 (0.050 / 1.000)
Rule 57 (0.050 / 1.000)
Rerata_SKS = range2 [18.500 - 19.500]
Jurusan_SMA = IPA
Rule 19 (0.050 / 1.000)
Rule 18 (0.050 / 1.000)


Result History
FrequentItemSets (FP-Growth)
AssociationRules (Create Association Rules)
ExampleSet (Nominal2Binominal)
ExampleSet (//Local Repository/Lama_Studi)
Data
Statistics
Charts
Advanced Charts
Annotations
Chart style:
Scatter
x-Axis:
Rerata_SKS
Log scale
y-Axis:
Lama_Studi
Log scale
Color Column:
Lama_Studi
Log scale
Jitter:
Rotate labels
Lama_Studi
TERLAMBAT
TEPAT
TEPAT
TERLAMBAT
16.0
16.5
17.0
17.5
18.0
18.5
19.0
19.5
20.0
20.5
21.0
21.5
22.0
22.5
23.0
Rerata_SKS