

Nama : Khairul Noviyanti

NIM : L200170178

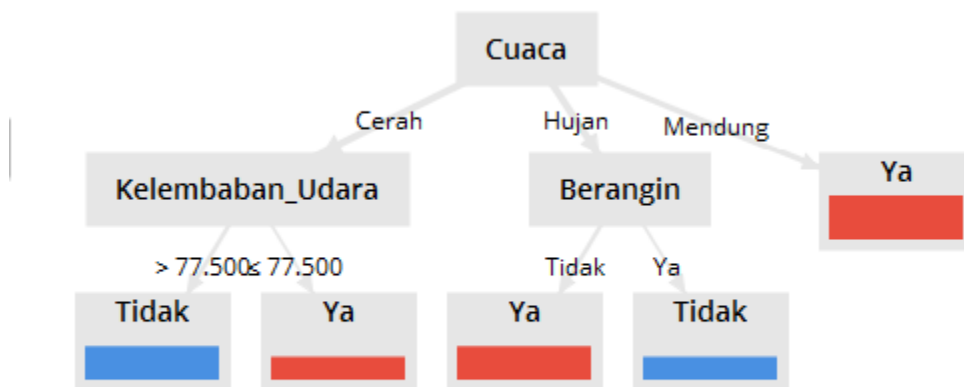
Kelas : F

# PRAKTIKUM DWDM

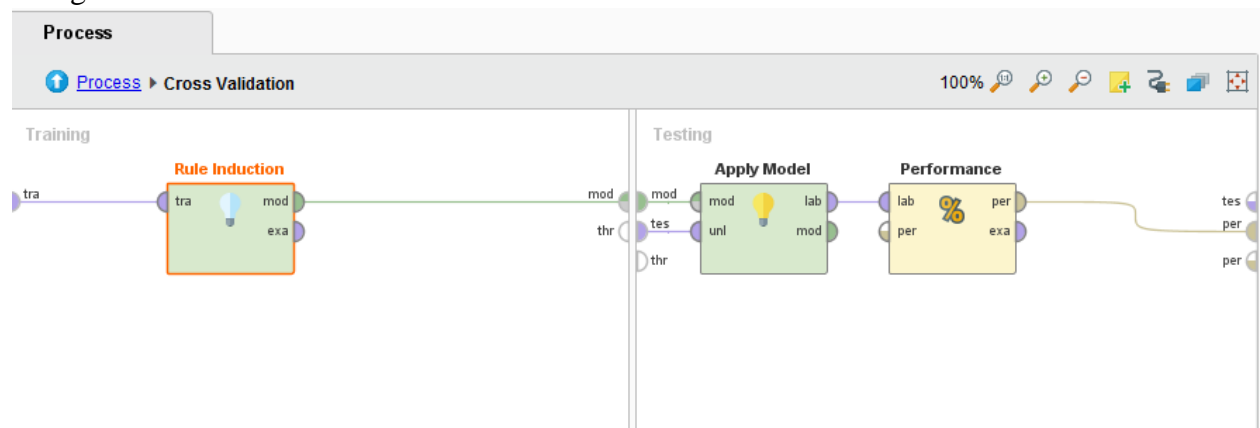
## MODUL 11

### A. KEGIATAN 1

#### 1. Decission Tree



#### 2. Design



### 3. Performance Vector

☒ Table View ☐ Plot View

accuracy: 65.00% +/- 45.00% (micro average: 71.43%)

	true Tidak	true Ya	class precision
pred. Tidak	2	1	66.67%
pred. Ya	3	8	72.73%
class recall	40.00%	88.89%	

### 4. Rule Model

## RuleModel

```
if Kelembaban_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)
```

correct: 12 out of 13 training examples.

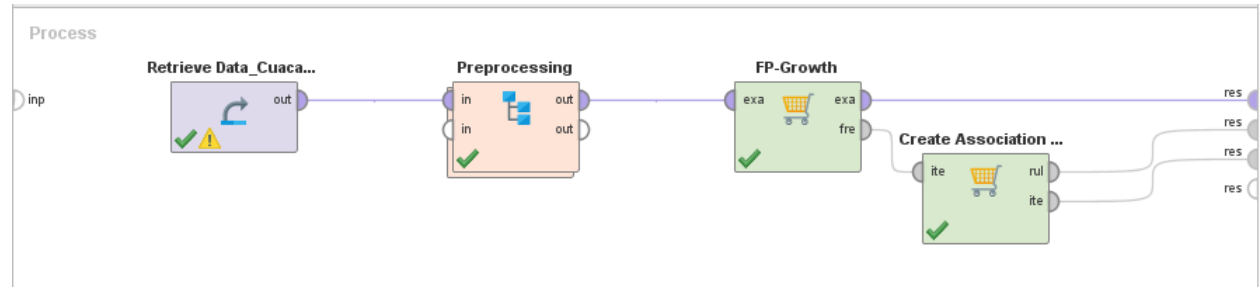
## B. KEGIATAN 2

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

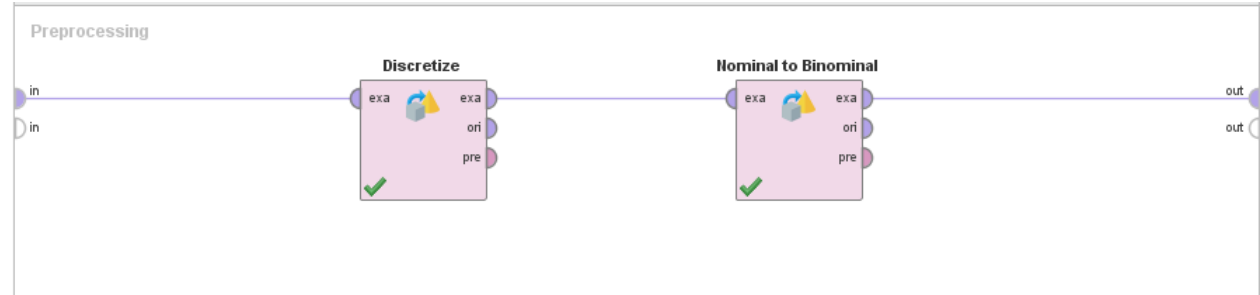
Size	Support	Item 1	Item 2	Item 3	Item 4
1	0.500	Kelembaban_Uda...			
1	0.429	Berangin			
1	0.429	Suhu			
1	0.357	Cuaca = Cerah			
1	0.357	Cuaca = Hujan			
1	0.286	Cuaca = Mendung			
2	0.214	Kelembaban_Uda...	Berangin		
2	0.214	Kelembaban_Uda...	Suhu		
2	0.214	Kelembaban_Uda...	Cuaca = Cerah		
2	0.143	Kelembaban_Uda...	Cuaca = Hujan		
2	0.143	Kelembaban_Uda...	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		
2	0.214	Suhu	Cuaca = Cerah		
2	0.071	Suhu	Cuaca = Hujan		
2	0.143	Suhu	Cuaca = Mendung		
3	0.071	Kelembaban_Uda...	Berangin	Suhu	
3	0.071	Kelembaban_Uda...	Berangin	Cuaca = Cerah	
3	0.071	Kelembaban_Uda...	Berangin	Cuaca = Hujan	
3	0.071	Kelembaban_Uda...	Berangin	Cuaca = Mendung	
3	0.143	Kelembaban_Uda...	Suhu	Cuaca = Cerah	
3	0.071	Kelembaban_Uda...	Suhu	Cuaca = Mendung	
3	0.143	Berangin	Suhu	Cuaca = Cerah	
4	0.071	Kelembaban_Uda...	Berangin	Suhu	Cuaca = Cerah

## 2. Design

### a. Process



### b. Preprocessing

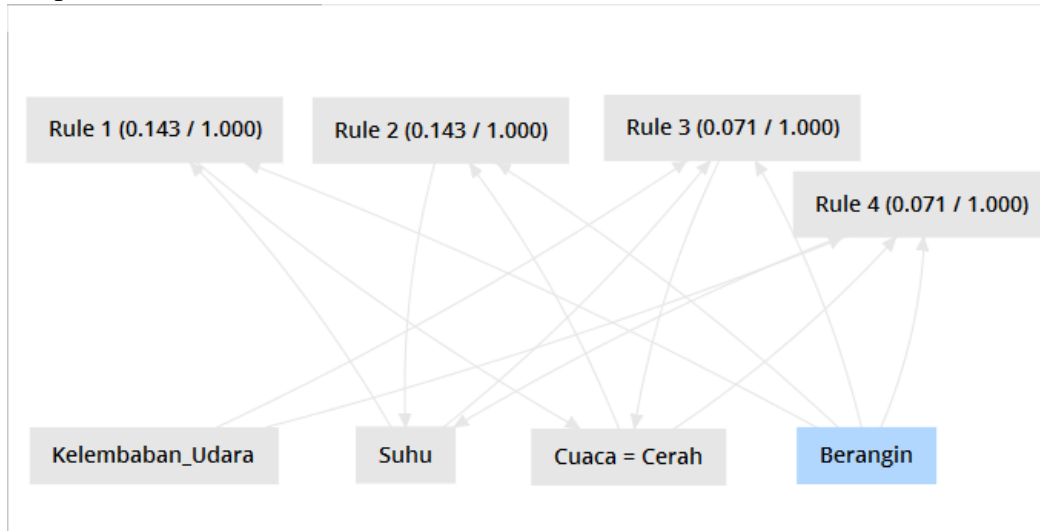


## 3. Association Rules

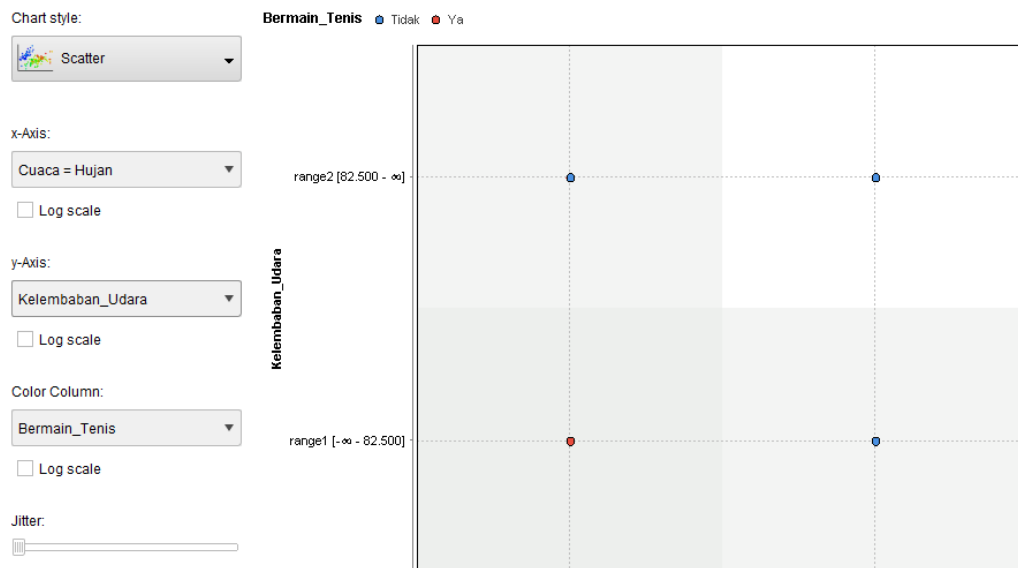
No.	Premises	Conclusion
1	Berangin, Suhu	Cuaca = Cerah
2	Berangin, Cuaca = Cerah	Suhu
3	Kelembaban_Udara, Berangin, Suhu	Cuaca = Cerah
4	Kelembaban_Udara, Berangin, Cuaca = Cerah	Suhu

Support	Confidence	LaPlace	Gain	p-s	Lift	Convicti...
0.143	1	1	-0.143	0.092	2.800	∞
0.143	1	1	-0.143	0.082	2.333	∞
0.071	1	1	-0.071	0.046	2.800	∞
0.071	1	1	-0.071	0.041	2.333	∞

#### 4. Graph View



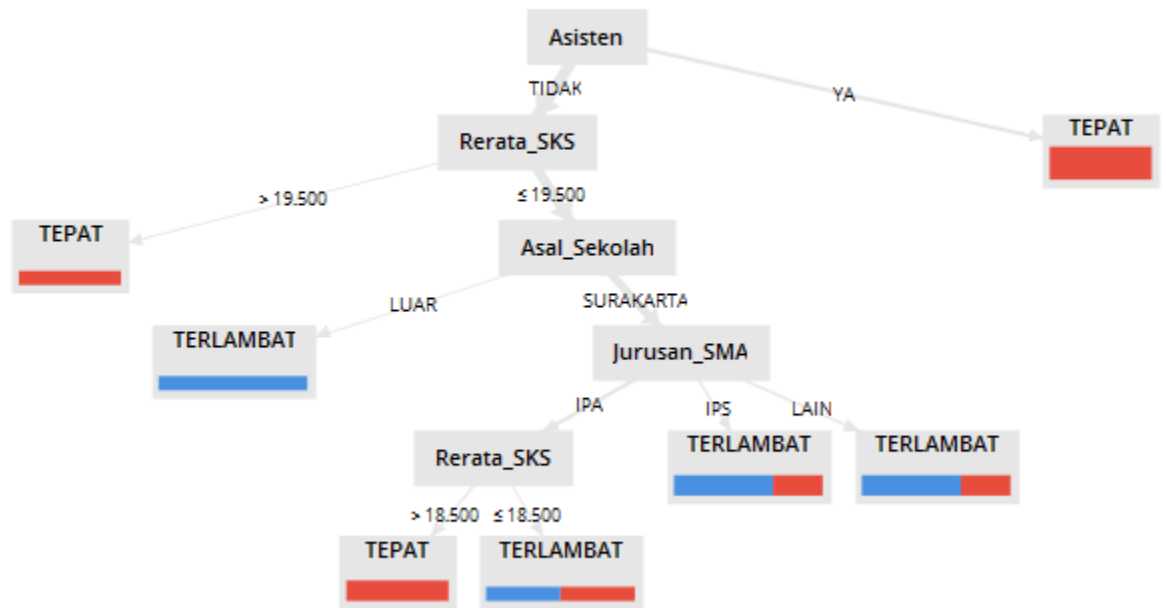
#### 5. Example Set



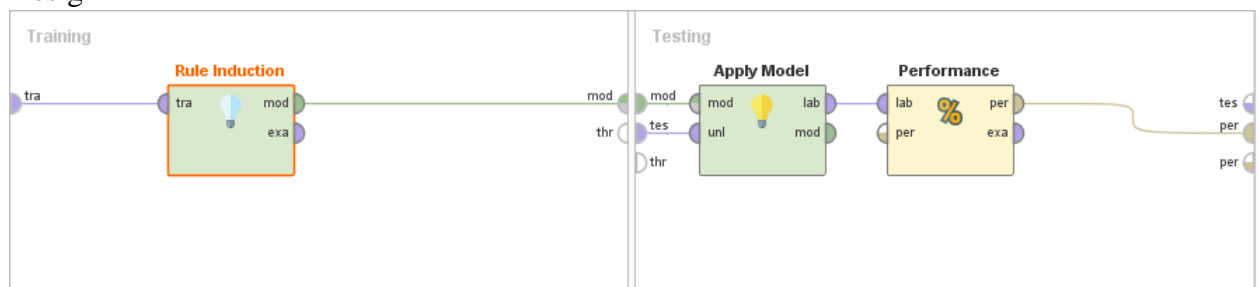
## TUGAS

1.

### 1. Decision Tree



### 2. Design



### 3. Performance Vector

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☒ Table View ☐ Plot View

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%	

### 4. Rule Model

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## 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.

a. Number of bins = 2

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	
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_SKS
2	0.200	Jurusan_SMA = IPA	Asisten

b. Number of bins = 3

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 [18.500...	
1	0.300	Asal_Sekolah	
1	0.300	Jurusan_SMA = IPS	
1	0.250	Asisten	
1	0.250	Rerata_SKS = range3 [19.500...	
1	0.200	Jurusan_SMA = LAIN	
2	0.350	Gender	Jurusan_SMA = IPA
2	0.200	Gender	Rerata_SKS = range1 [-∞ - 1...
2	0.300	Gender	Rerata_SKS = range2 [18.50...
2	0.250	Gender	Asal_Sekolah
2	0.250	Gender	Jurusan_SMA = IPS
2	0.200	Gender	Asisten
2	0.250	Gender	Rerata_SKS = range3 [19.50...
2	0.200	Jurusan_SMA = IPA	Rerata_SKS = range1 [-∞ - 1...
2	0.200	Jurusan_SMA = IPA	Rerata_SKS = range2 [18.50...
2	0.200	Jurusan_SMA = IPA	Asisten



c. Jumlah set aturan asosiasi bins = 2

No.	Premises	Conclusion
3	Asal_Sekolah	Gender
4	Jurusan_SMA = IPS	Gender
5	Rerata_SKS	Gender

Support	Confidence	LaPlace	Gain	p-s	Lift	Convicti...
0.250	0.833	0.962	-0.350	0.025	1.111	1.500
0.250	0.833	0.962	-0.350	0.025	1.111	1.500
0.250	1	1	-0.250	0.062	1.333	$\infty$

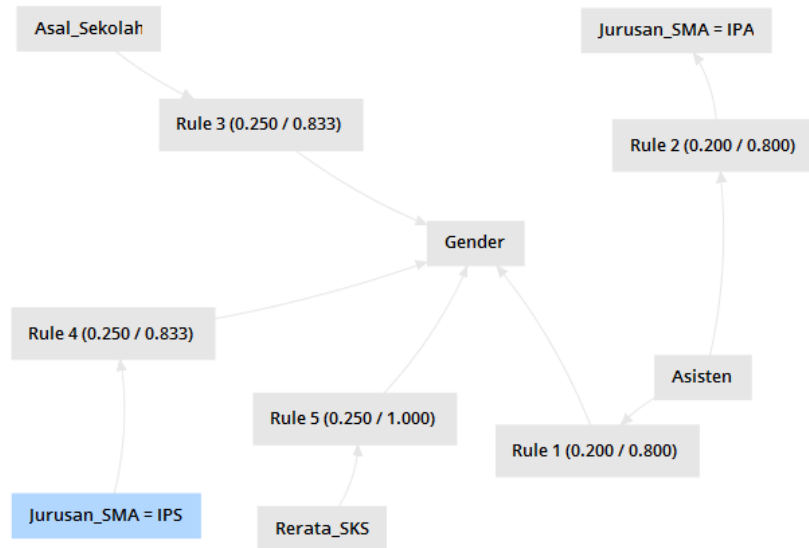
Jumlah set aturan asosiasi bins = 3

No.	Premises	Conclusion
3	Asal_Sekolah	Gender
4	Jurusan_SMA = IPS	Gender
5	Rerata_SKS = range2 [18.500 - 19.500]	Gender
6	Rerata_SKS = range3 [19.500 - $\infty$ ]	Gender

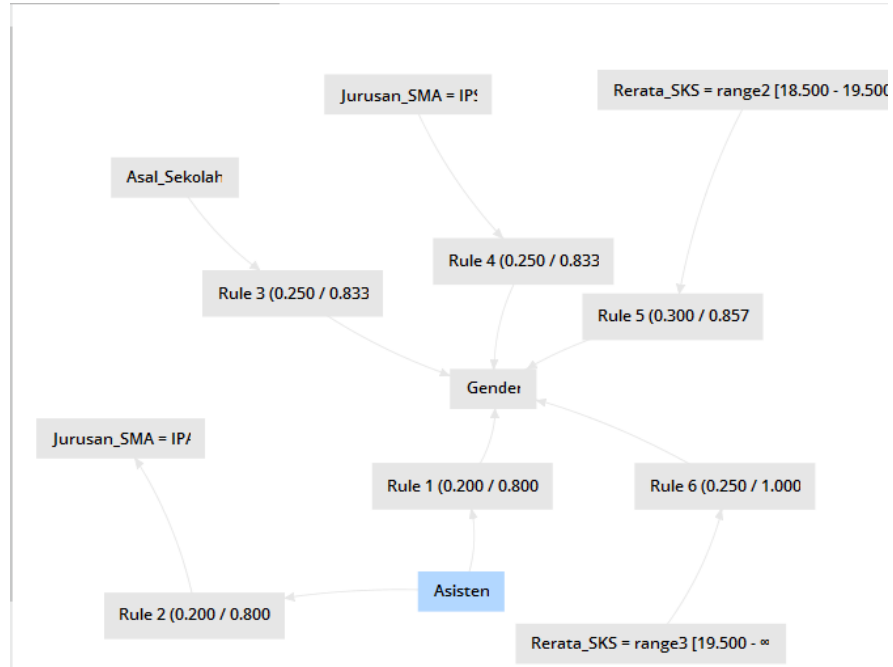
  

Support	Confidence	LaPlace	Gain	p-s	Lift	Convicti...
0.250	0.833	0.962	-0.350	0.025	1.111	1.500
0.250	0.833	0.962	-0.350	0.025	1.111	1.500
0.300	0.857	0.963	-0.400	0.038	1.143	1.750
0.250	1	1	-0.250	0.062	1.333	$\infty$

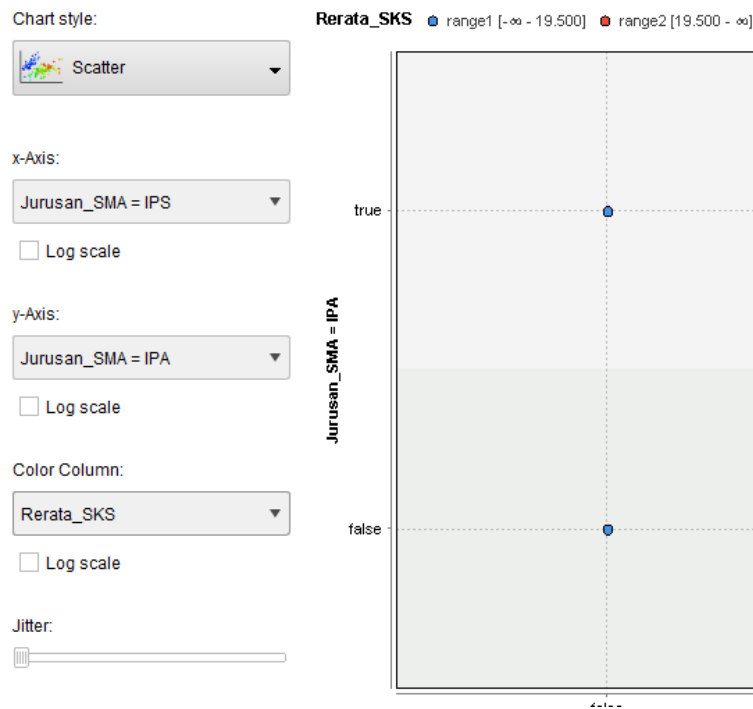
d. Graph view bins = 2



Graph view bins = 3



e. Example Set bins = 2



Example Set bins = 3

