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 NIM : L200170096
 Kelas : D
 Modul : 9

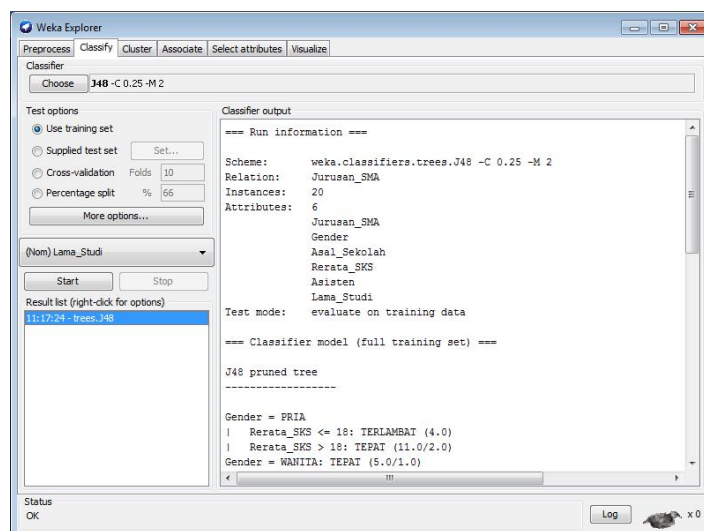
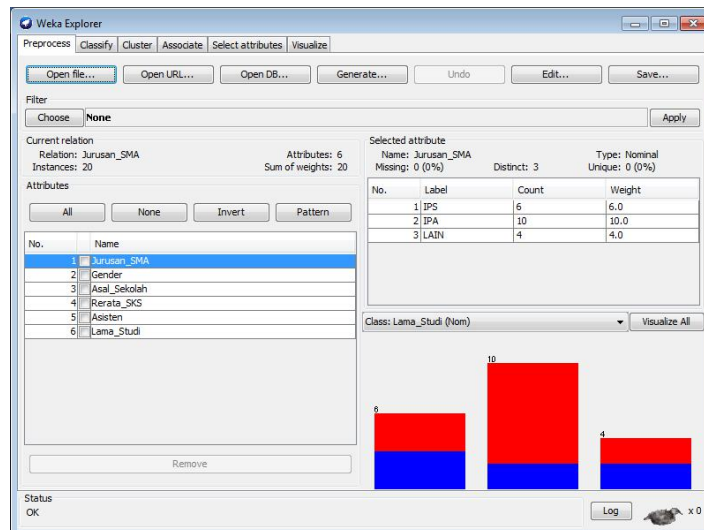
TUGAS

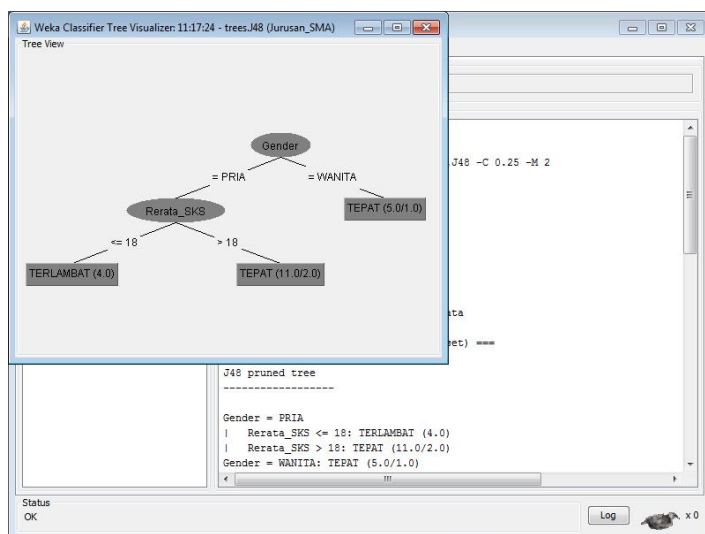
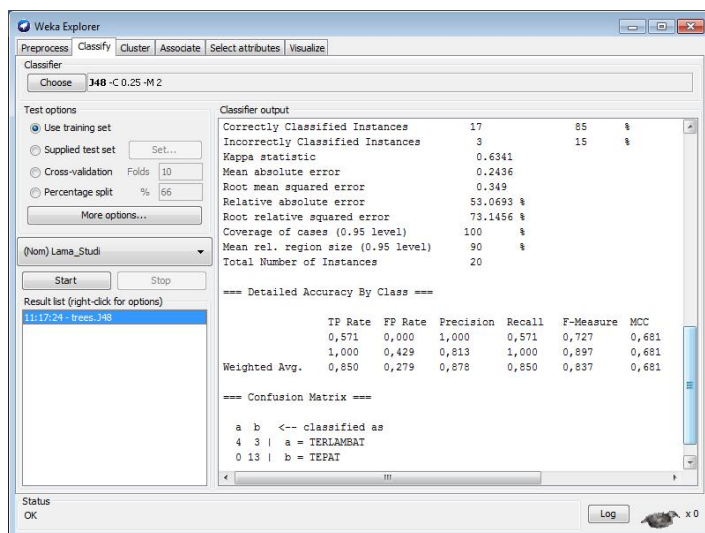
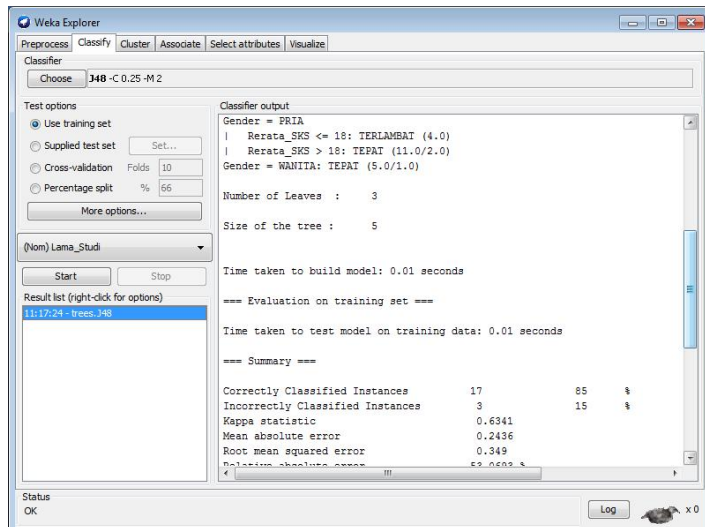
1. Nilai kelas atribut Bermain_Tenis.

Cuaca	Suhu	Kelembaban_Udara	Berangin	Bermain_Tenis
Cerah	75	65	TIDAK	YA
Cerah	80	68	YA	YA
Cerah	83	87	YA	TIDAK
Mendung	70	96	TIDAK	YA
Mendung	68	81	TIDAK	YA
Hujan	65	75	TIDAK	YA
Hujan	64	85	YA	TIDAK

2. Gunakan File jurusan_SMA.arff

a.) Membuat Pohon Keputusan menggunakan file jurusan_SMA.arff

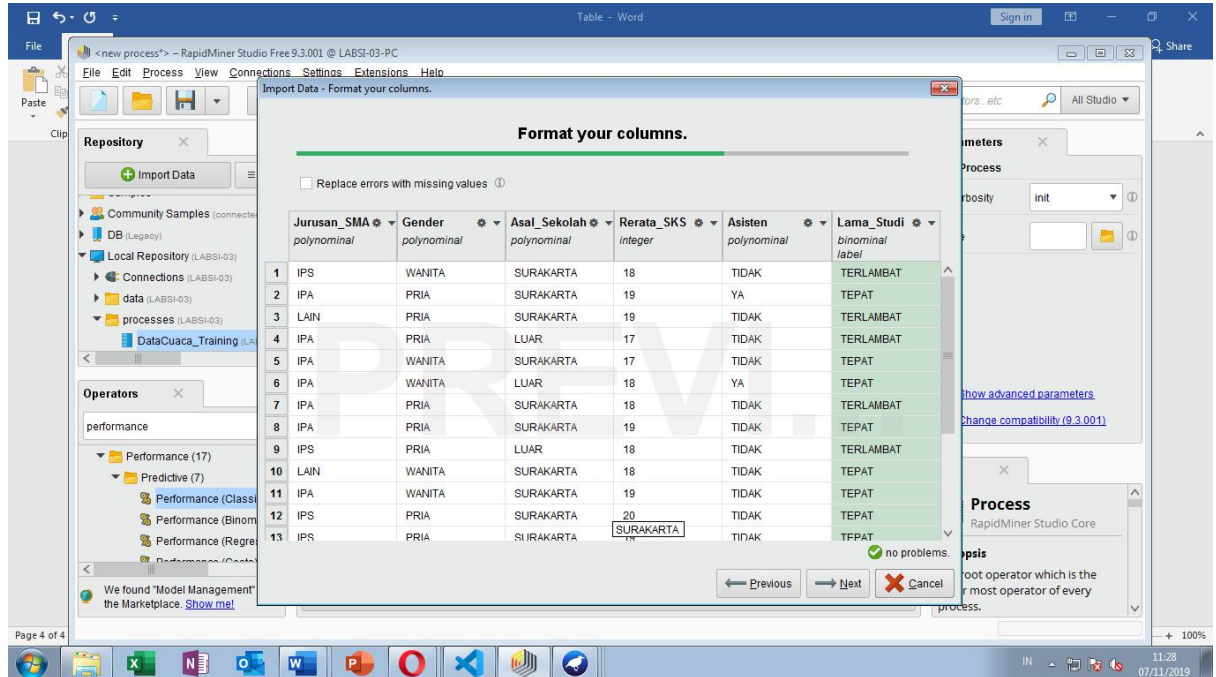




b.) Carilah nilai-nilai parameter berikut:

- i. Jumlah simpul daun pada pohon keputusan = 3
- ii. Jumlah simpul keseluruhan pada pohon keputusan = 5
- iii. Waktu yang dibutuhkan untuk proses pelatihan = 0.01 detik
- iv. Tingkat ketepatan klasifikasi = 85 %
- v. Tingkat ketidaktepatan klasifikasi = 15 %

3. Menggunakan file Excel jurusan_SMA.



a. Pohon Keputusan

The image displays two screenshots of the RapidMiner Studio Free 9.3.001 interface, illustrating a workflow for building and evaluating a decision tree model.

Top Screenshot: The "Process" view shows a workflow titled "Cross Validation". The "Training" phase includes a "Decision Tree" operator. The "Testing" phase includes an "Apply Model" operator followed by a "Performance" operator. The "Performance" operator is configured with "main criterion" set to "first" and "accuracy" checked. The "Parameters" panel on the right shows the "Performance (Performance (Classification))" settings, including "main criterion" (first), "accuracy" (checked), "classification error" (unchecked), "kappa" (unchecked), "weighted mean recall" (unchecked), "weighted mean precision" (unchecked), and "spearman rho" (unchecked). The "Help" panel shows the "Performance (Classification)" operator details.

Bottom Screenshot: The "Process" view shows a workflow titled "Process". The "Retrieve SMA" operator is connected to the "Cross Validation" operator. The "Cross Validation" operator is configured with "ata" (checked), "mod" (checked), "exa" (checked), "tes" (checked), "per" (checked), and "per" (checked). The "Parameters" panel on the right shows the "Process" settings, including "logverbosity" (init) and "logfile" (empty). The "Help" panel shows the "Process" operator details.

<new process*> - RapidMiner Studio Free 9.3.001 @ LABSI-02-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/SMA) ExampleSet (/Local Repository/CuacaTraining)

Result History

Performance

Criterion: accuracy

Table View Plot View

accuracy: 60.00% +/- 21.08% (micro average: 60.00%)

	true TERLAMBAT	true TEPAT	class precision
pred. TERLAMBAT	4	5	44.44%
pred. TEPAT	3	8	72.73%
class recall	57.14%	61.54%	

Repository

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-02)
 - Connections (LABSI-02)
 - data (LABSI-02)
 - processes (LABSI-02)
 - CuacaTraining (LABSI-02 - v1, 11/7/19 10:44 AM - 6)
 - SMA (LABSI-02 - v1, 11/7/19 11:24 AM - 869 bytes)

<new process*> - RapidMiner Studio Free 9.3.001 @ LABSI-02-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/SMA) ExampleSet (/Local Repository/CuacaTraining)

Result History

PerformanceVector (Performance)

Tree (Decision Tree)

Zoom

Tree

Node Labels

Edge Labels

Graph

Description

Annotations

Asisten

TIDAK

YA

Rerata_SKS

TEPAT

> 18.500

≤ 18.500

Gender

PRIA

WANITA

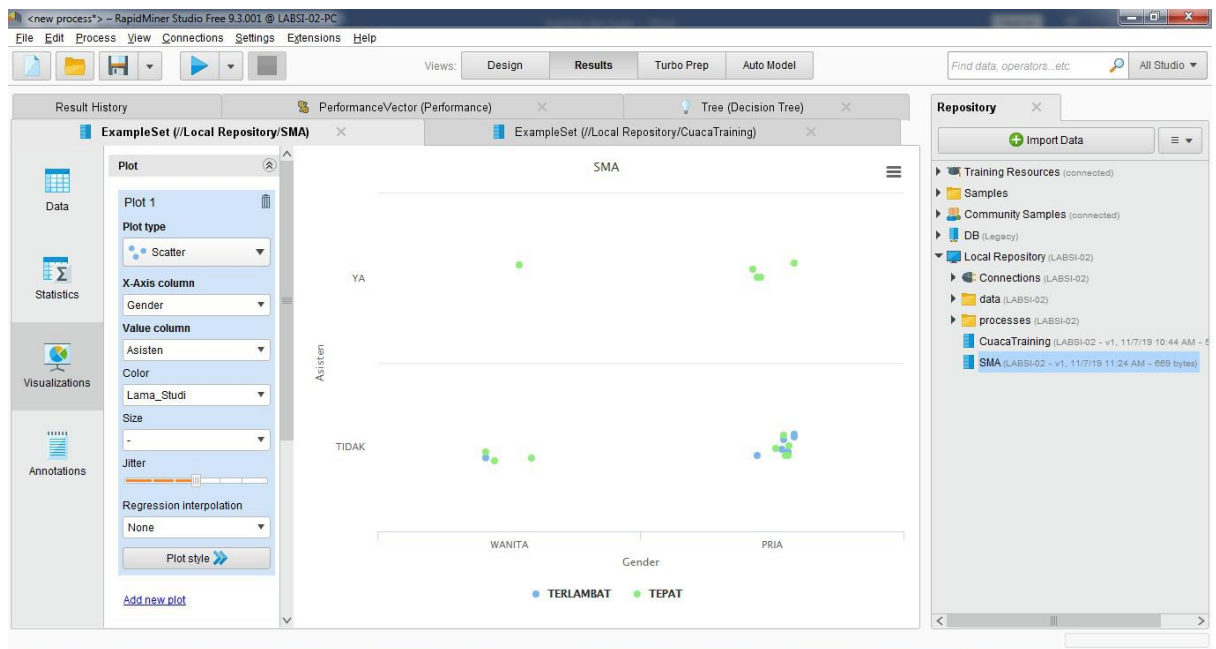
TERLAMBAT

TEPAT

Repository

- Training Resources (connected)
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- Local Repository (LABSI-02)
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 - SMA (LABSI-02 - v1, 11/7/19 11:24 AM - 869 bytes)

b. Perspektif Plot View



4. Klasifikasi yang terbentuk yaitu :

- i. Seseorang akan lama_studi (TERLAMBAT) jika kondisi sebagai berikut:
 - Gender = PRIA, $Rerata_SKS \leq 18$ (nilai atribut lain diabaikan)
- ii. Seseorang akan lama_studi (TERLAMBAT) jika kondisi sebagai berikut:
 - Gender = WANITA (nilai atribut lain diabaikan)
 - Gender = PRIA, $Rerata_SKS > 18$ (nilai atribut lain diabaikan)