

Nama : Muhammad Azmi Hidayat
NIM : L200170142
Kelas : F

Modul 7

Data Preprocessing

Tugas

1. Buat file ARFF data pada modul 6

The screenshot displays two software windows side-by-side. On the left is the Weka Explorer interface, showing the 'Preprocess' tab. The 'Current relation' is 'Kuliah' with 20 instances and 6 attributes. The 'Selected attribute' is 'Jurusan_SMA' (Nominal, 3 distinct values). A bar chart at the bottom shows the distribution of 'Lama_Studi' (Nominal) with three bars of heights 10, 6, and 4. On the right is the Visual Studio code editor, showing the 'tugas.arff' file. The file contains an ARFF format definition for the 'Kuliah' relation, including attributes for Jurusan_SMA, Gender, Asal_Sekolah, Rerata_SKS, Asisten, and Lama_Studi, followed by 31 data instances.

```
@relation Kuliah
@attribute Jurusan_SMA {IPA,IPS,LAIN}
@attribute Gender {WANITA,PRIA}
@attribute Asal_Sekolah {SURAKARTA,LUAR}
@attribute Rerata_SKS real
@attribute Asisten {YA,TIDAK}
@attribute Lama_Studi {TERLAMBAT,TEPAT}

@data
IPS,WANITA,SURAKARTA,18,TIDAK,TERLAMBAT
IPA,PRIA,SURAKARTA,19,YA,TEPAT
LAIN,PRIA,SURAKARTA,19,TIDAK,TERLAMBAT
IPA,PRIA,LUAR,17,TIDAK,TERLAMBAT
IPA,WANITA,SURAKARTA,17,TIDAK,TEPAT
IPA,WANITA,LUAR,18,YA,TEPAT
IPA,PRIA,SURAKARTA,18,TIDAK,TERLAMBAT
IPA,PRIA,SURAKARTA,19,TIDAK,TEPAT
IPS,PRIA,LUAR,18,TIDAK,TERLAMBAT
LAIN,WANITA,SURAKARTA,18,TIDAK,TEPAT
IPA,WANITA,SURAKARTA,19,TIDAK,TEPAT
IPS,PRIA,SURAKARTA,20,TIDAK,TEPAT
IPS,PRIA,SURAKARTA,19,TIDAK,TEPAT
IPA,PRIA,SURAKARTA,19,TIDAK,TEPAT
IPA,PRIA,LUAR,22,YA,TEPAT
LAIN,PRIA,SURAKARTA,16,TIDAK,TERLAMBAT
IPS,PRIA,LUAR,20,TIDAK,TEPAT
LAIN,PRIA,LUAR,23,YA,TEPAT
IPA,PRIA,SURAKARTA,21,YA,TEPAT
IPS,PRIA,SURAKARTA,19,TIDAK,TERLAMBAT
```

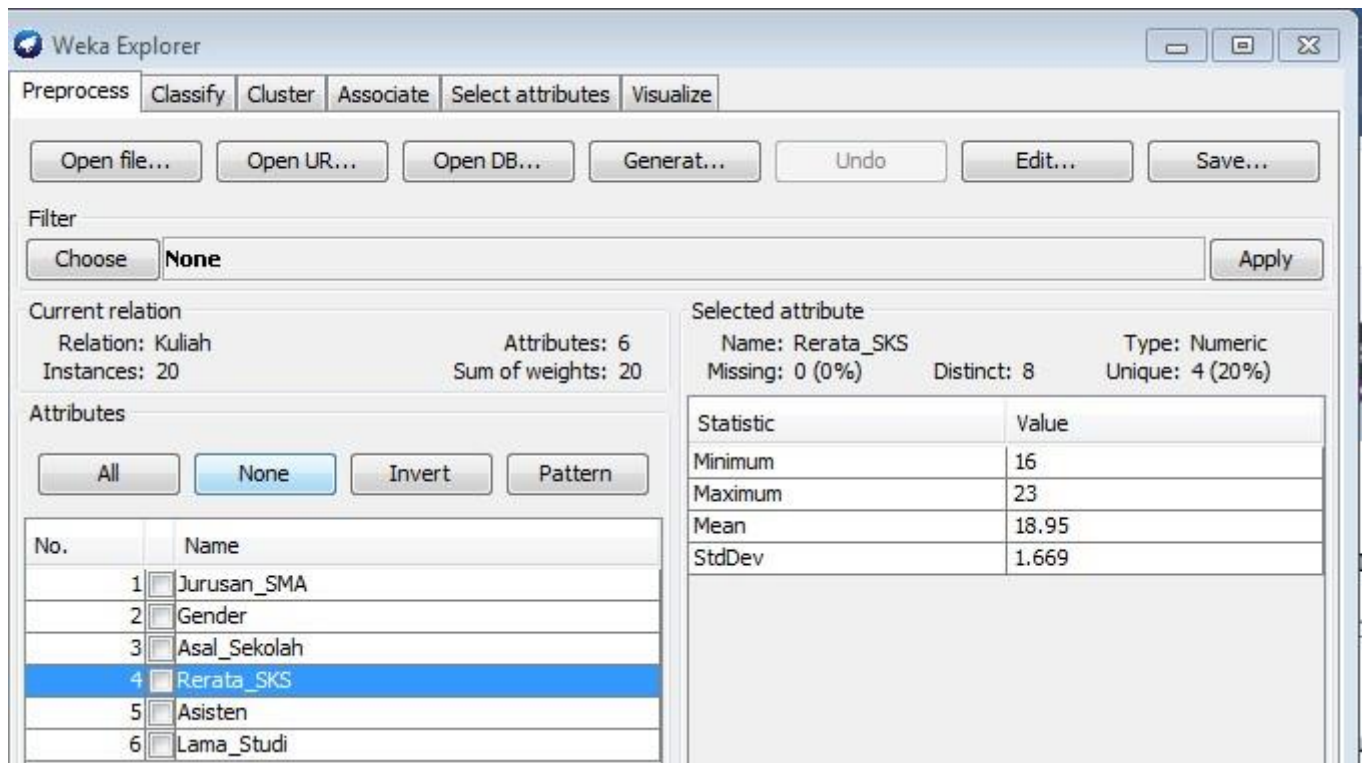
2. Berapa jumlah atribut yang bertipe binomial dan polinomial?

- Banyaknya atribut yang bertipe binomial adalah 4 (Gender, Asal Sekolah, Asisten, dan Lama_Studi)
- Banyaknya atribut yang bertipe polinomial adalah 1 (Jurusan_SMA)

3. Berapa jumlah atribut bertipe real ?

- Banyaknya atribut yang bertipe real adalah 1 (Rerata_SKS)

4. Besar nilai max, min, mean, dan stddev pada atribut Rerata_SKS adalah



The screenshot shows the Weka Explorer application window. The 'Preprocess' tab is active. The 'Filter' section shows 'None' selected. The 'Current relation' section shows 'Relation: Kuliah' and 'Instances: 20'. The 'Attributes' section shows a list of attributes: Jurusan_SMA, Gender, Asal_Sekolah, Rerata_SKS (selected), Asisten, and Lama_Studi. The 'Selected attribute' section shows the following statistics for 'Rerata_SKS':

Statistic	Value
Minimum	16
Maximum	23
Mean	18.95
StdDev	1.669