Data warehouse & Data mining lab
Assignment 3a

Submitted by :
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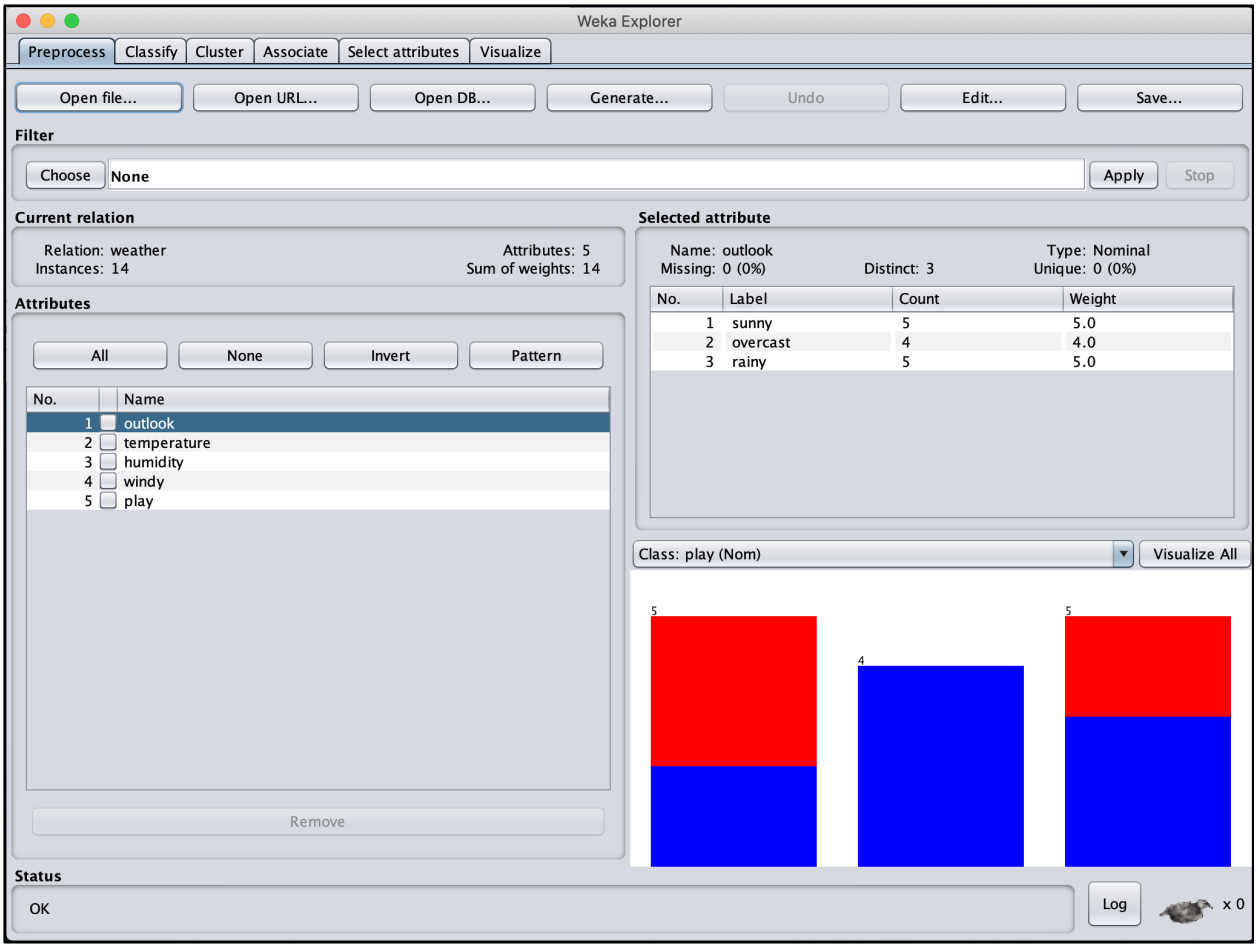
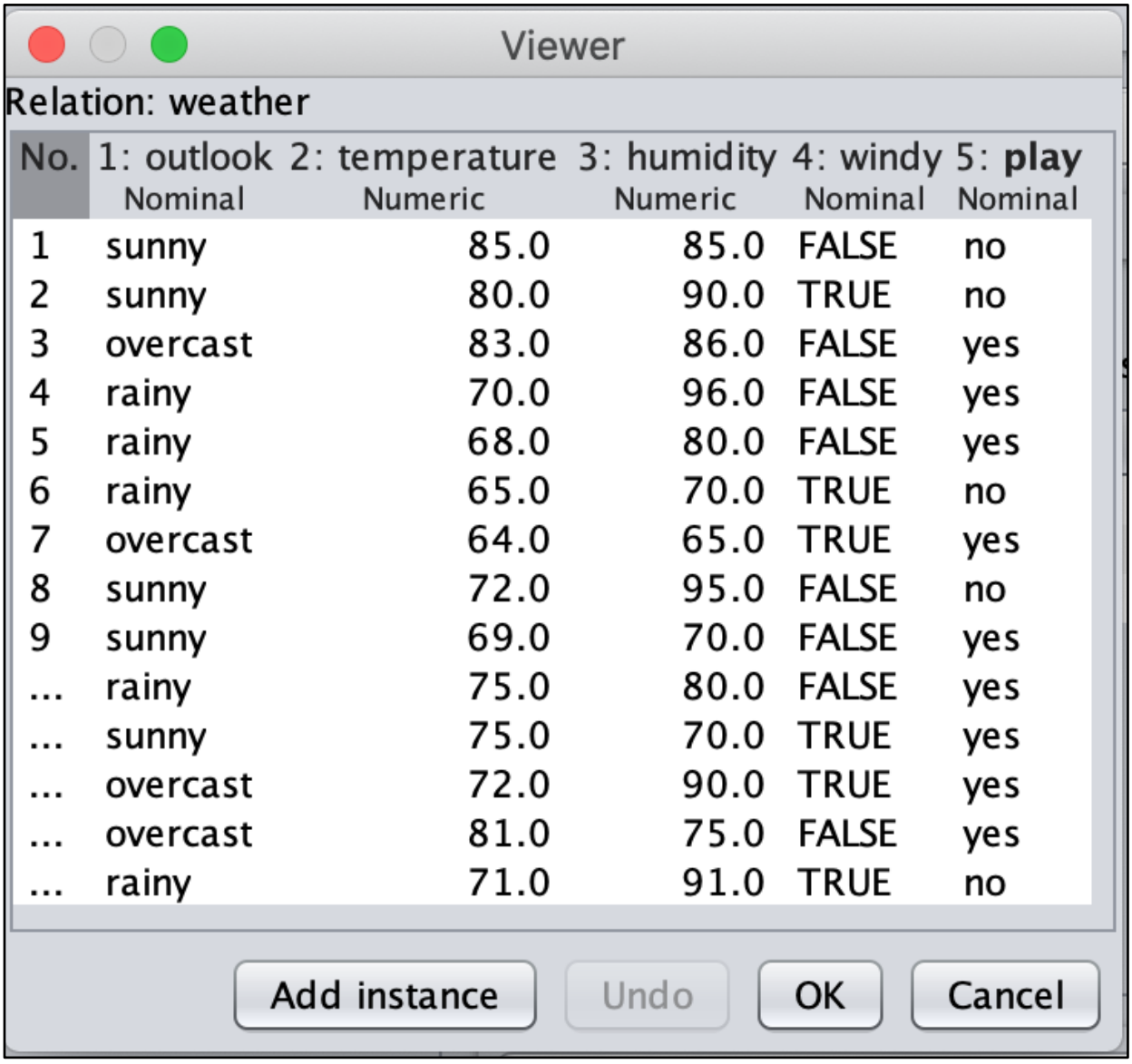
IT2

Experiment 9 : Write a procedure for Clustering Weather data using EM Algorithm.

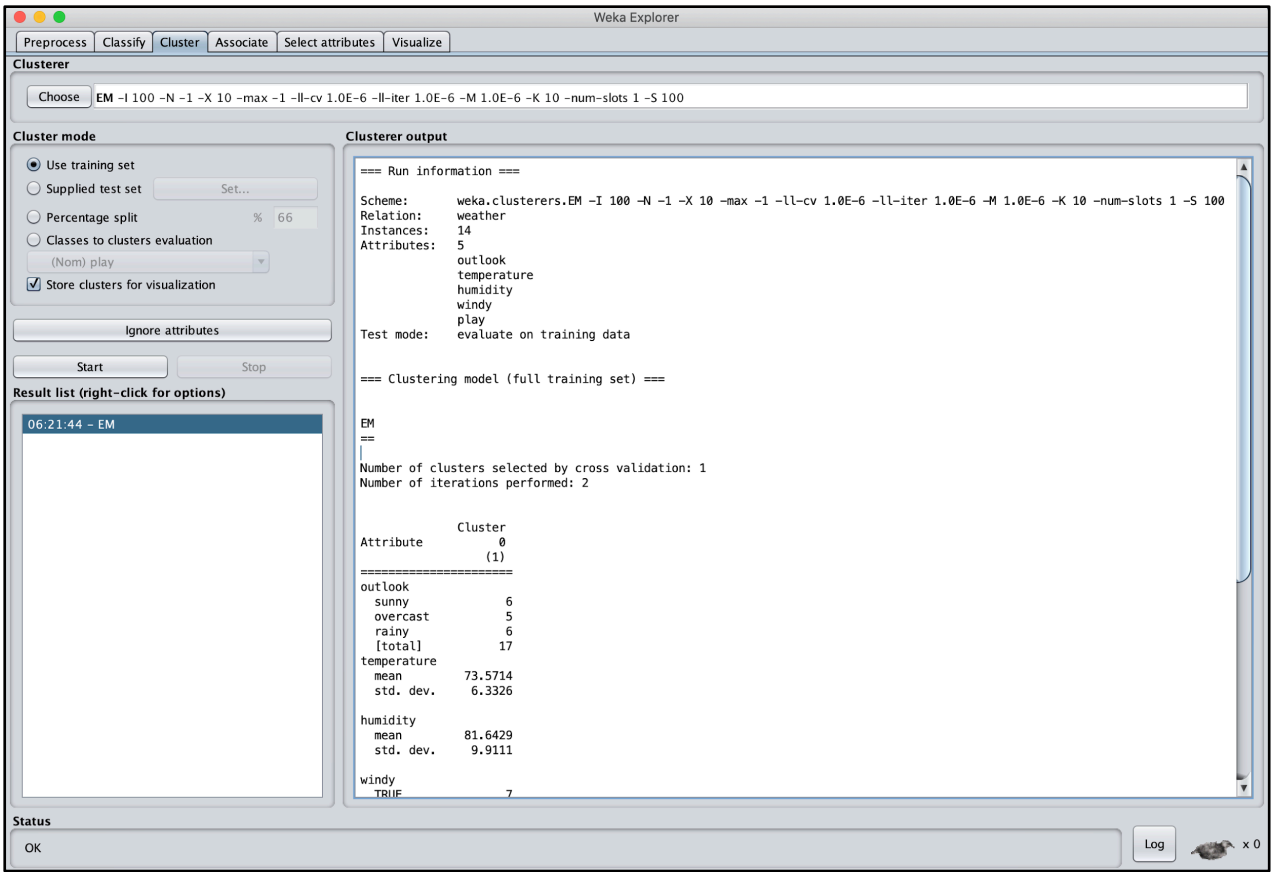
1. Data Loading



2. **Review of Loaded Data**



3. Result after EM algorithm



Clusterer output

```
Number of clusters selected by cross validation: 1
Number of iterations performed: 2


               Cluster
Attribute            0
                   (1)
=======================
outlook
  sunny               6
  overcast            5
  rainy               6
  [total]            17
temperature
  mean          73.5714
  std. dev.      6.3326

humidity
  mean          81.6429
  std. dev.      9.9111

windy
  TRUE                7
  FALSE               9
  [total]            16
play
  yes                10
  no                  6
  [total]            16


Time taken to build model (full training data) : 0.06 seconds

=== Model and evaluation on training set ===

Clustered Instances

0      14 (100%)


Log likelihood: -9.4063
```