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Div: A
Roll No: 26
Subject: DWM

EXPERIMENT NO. 10

Weka Explorer

Preprocess | Classify | Cluster | Associate | Select attributes | Visualize

Open file... Open URL... Open DB... Generate... Undo Edit... Save...

Filter: Choose None Apply

Current relation: contact-lenses
Instances: 24 Attributes: 5

Attributes: All None Invert Pattern

No.	Name
1	age
2	spectacle-prescrip
3	astigmatism
4	tear-prod-rate
5	contact-lenses

Remove

Selected attribute: Name: age Missing: 0 (0%) Distinct: 3 Type: Nominal Unique: 0 (0%)

No.	Label	Count
1	young	8
2	pre-presbyopic	8
3	presbyopic	8

Class: contact-lenses (Nom) Visualize All

Status: OK Log x 0

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No.	Name
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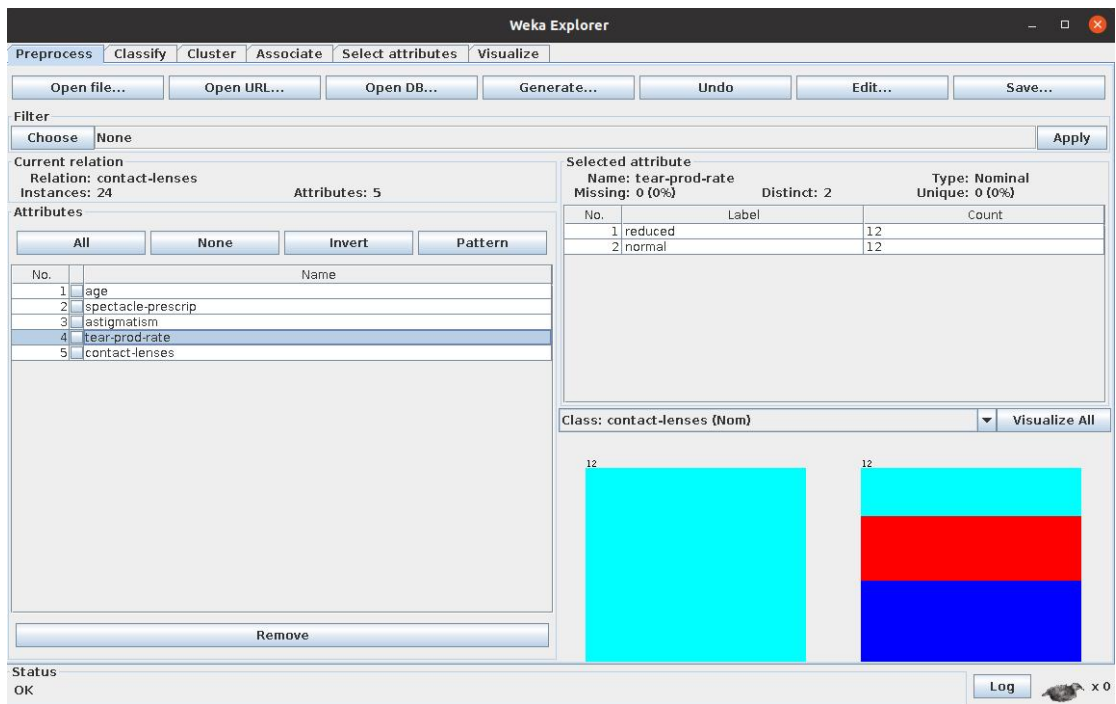
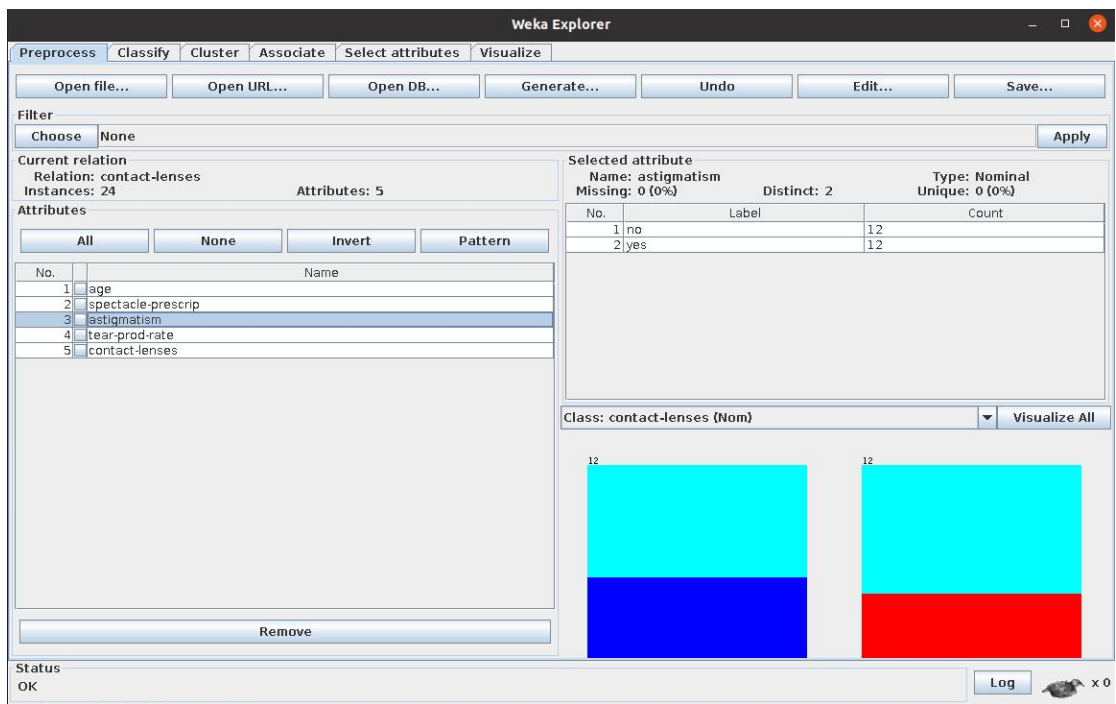
Remove

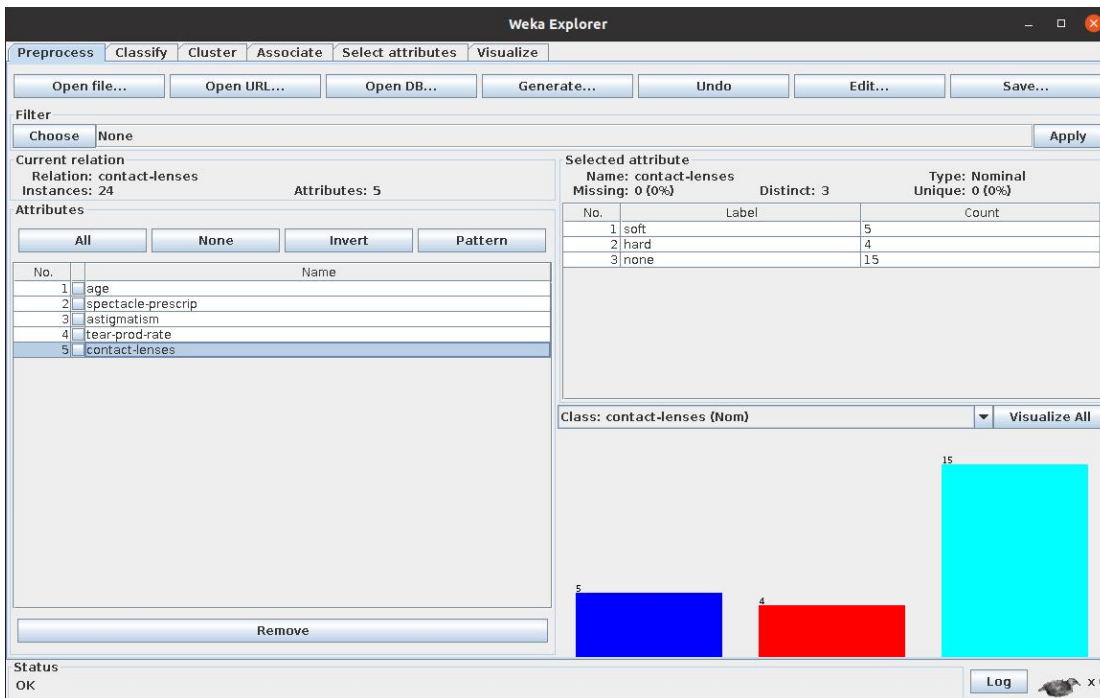
Selected attribute: Name: spectacle-prescrip Missing: 0 (0%) Distinct: 2 Type: Nominal Unique: 0 (0%)

No.	Label	Count
1	myope	12
2	hypermetrope	12

Class: contact-lenses (Nom) Visualize All

Status: OK Log x 0





What is the size of large itemset – k-itemset – identify the value of k

Minimum support: 0.2 (5 instances)
 Minimum metric <confidence>: 0.9
 Number of cycles performed: 16

Generated sets of large itemsets:

Size of set of large itemsets L{1}: 11

Size of set of large itemsets L{2}: 21

Size of set of large itemsets L{3}: 6

How many association rules have been generated

Best rules found:

```

1. tear-prod-rate=reduced 12 ==> contact-lenses=none 12   conf:(1)
2. spectacle-prescrip=myope tear-prod-rate=reduced 6 ==> contact-lenses=none 6   conf:(1)
3. spectacle-prescrip=hypermetrope tear-prod-rate=reduced 6 ==> contact-lenses=none 6   conf:(1)
4. astigmatism=no tear-prod-rate=reduced 6 ==> contact-lenses=none 6   conf:(1)
5. astigmatism=yes tear-prod-rate=reduced 6 ==> contact-lenses=none 6   conf:(1)
6. contact-lenses=soft 5 ==> astigmatism=no 5   conf:(1)
7. contact-lenses=soft 5 ==> tear-prod-rate=normal 5   conf:(1)
8. tear-prod-rate=normal contact-lenses=soft 5 ==> astigmatism=no 5   conf:(1)
9. astigmatism=no contact-lenses=soft 5 ==> tear-prod-rate=normal 5   conf:(1)
10. contact-lenses=soft 5 ==> astigmatism=no tear-prod-rate=normal 5   conf:(1)
  
```

List any 5 strong association rules.

1. tear-prod-rate=reduced 12 ==> contact-lenses=none 12 conf:(1)
2. spectacle-prescrip=myope tear-prod-rate=reduced 6 ==> contact-lenses=none 6 conf:(1)
3. spectacle-prescrip=hypermetrope tear-prod-rate=reduced 6 ==> contact-lenses=none 6 conf:(1)
4. astigmatism=no tear-prod-rate=reduced 6 ==> contact-lenses=none 6 conf:(1)
5. astigmatism=yes tear-prod-rate=reduced 6 ==> contact-lenses=none 6 conf:(1)