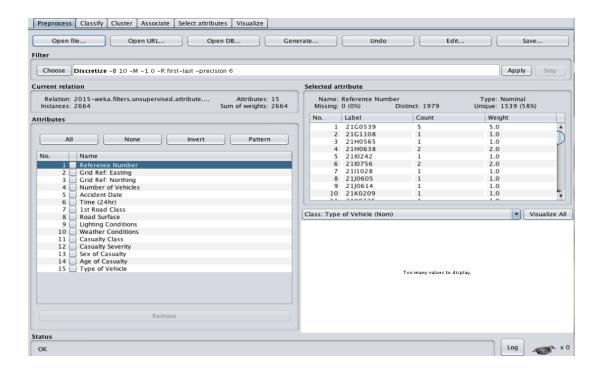# EXPERIMENT-9

FREQUENT PATTERN MINING USING ASSOCIATION RULE THROUGH
WEKA AND R TOOLS

OUTPUT:

weka.associations.Apriori

About

Class implementing an Apriori–type algorithm.

[More]
[Capabilities]

car	False
classIndex	-1
delta	0.05
doNotCheckCapabilities	False
lowerBoundMinSupport	0.5
metricType	Confidence
minMetric	0.9
numRules	10
outputItemSets	True
removeAllMissingCols	False
significanceLevel	-1.0
treatZeroAsMissing	False
upperBoundMinSupport	1.0
verbose	False

[Open...] [Save...] [OK] [Cancel]

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

Associator

[Choose] Apriori -I -N 10 -T 0 -C 0.9 -D 0.05 -U 2.0 -M 1.0 -S -1.0 -c -1

[Start] [Stop]

Associator output

Result list (right-clic...

11:14:18 - Apriori
11:18:55 - Apriori
11:19:11 - Apriori
11:19:13 - Apriori

```
=== Run information ===

Scheme:       weka.associations.Apriori -I -N 10 -T 0 -C 0.9 -D 0.05 -U 2.0 -M 1.0 -S -1.0 -c -1
Relation:     2015-weka.filters.unsupervised.attribute.Remove-R2-4,6,14
Instances:    2664
Attributes:   10
              Reference Number
              Accident Date
              1st Road Class
              Road Surface
              Lighting Conditions
              Weather Conditions
              Casualty Class
              Casualty Severity
              Sex of Casualty
              Type of Vehicle
=== Associator model (full training set) ===


No large itemsets and rules found!
```

USING R-TOOL:

```
> a=apriori(data,parameter = list(sup=0.3,conf=0.9))
Apriori

Parameter specification:
 confidence minval smax arem  aval originalSupport maxtime support minlen maxlen
        0.9    0.1    1 none FALSE            TRUE       5     0.3      1     10
 target   ext
  rules FALSE

Algorithmic control:
 filter tree heap memopt load sort verbose
    0.1 TRUE TRUE  FALSE TRUE    2    TRUE

Absolute minimum support count: 799

set item appearances ...[0 item(s)] done [0.00s].
set transactions ...[2393 item(s), 2664 transaction(s)] done [0.00s].
sorting and recoding items ... [10 item(s)] done [0.00s].
creating transaction tree ... done [0.02s].
checking subsets of size 1 2 3 4 5 done [0.00s].
writing ... [30 rule(s)] done [0.00s].
creating S4 object  ... done [0.00s].
> |
```