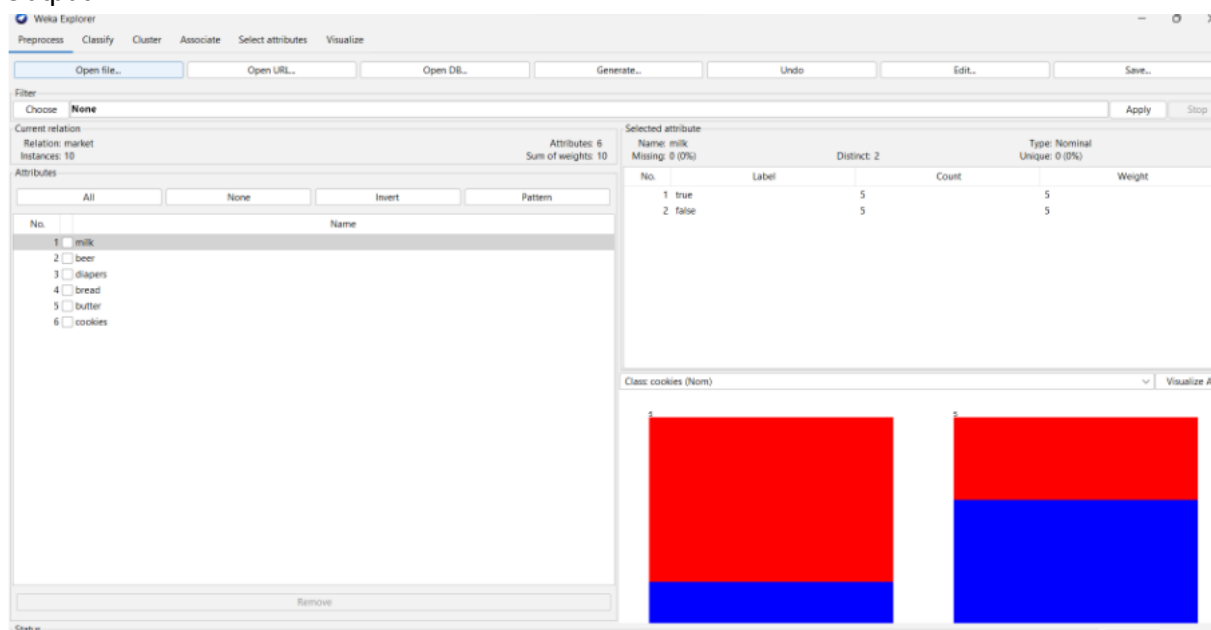


```

@relation market
@attribute milk{true false}
@attribute beer{true false}
@attribute diapers{true false}
@attribute bread{true false}
@attribute butter{true false}
@attribute cookies{true false}
@data
true true true false false false
true false false true true false
true false true false false true
false false false true true true
false true true false false true
true false true true true false
false false true true true false
false true true false false false
true false true true true false
false true false false false true

```

Output:



Aprior:

Weka Explorer

Preprocess Classify Cluster **Associate** Select attributes Visualize

Associator

Choose **Apriori** -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -< -1

Start Stop

Result list (right-click for ...)

- 12:12:35 - Apriori
- 12:12:55 - Apriori
- 12:14:25 - FPGrowth
- 12:14:44 - FPGrowth
- 12:20:39 - Apriori

Associator output

```

milk
beer
diapers
bread
butter
cookies

=== Associator model (full training set) ===

Apriori
=====

Minimum support: 0.55 (5 instances)
Minimum metric <confidence>: 0.9
Number of cycles performed: 9

Generated sets of large itemsets:

Size of set of large itemsets L(1): 9
Size of set of large itemsets L(2): 5
Size of set of large itemsets L(3): 1

Best rules found:

1. bread=true 5 ==> beer=false 5 <conf:(1)> lift:(1.67) lev:(0.2) [2] conv:(2)
2. butter=true 5 ==> beer=false 5 <conf:(1)> lift:(1.67) lev:(0.2) [2] conv:(2)
3. butter=true 5 ==> bread=true 5 <conf:(1)> lift:(2) lev:(0.25) [2] conv:(2.5)
4. bread=true 5 ==> butter=true 5 <conf:(1)> lift:(2) lev:(0.25) [2] conv:(2.5)
5. butter=false 5 ==> bread=false 5 <conf:(1)> lift:(2) lev:(0.25) [2] conv:(2.5)
6. bread=false 5 ==> butter=false 5 <conf:(1)> lift:(2) lev:(0.25) [2] conv:(2.5)
7. bread=true butter=true 5 ==> beer=false 5 <conf:(1)> lift:(1.67) lev:(0.2) [2] conv:(2)
8. beer=false butter=true 5 ==> bread=true 5 <conf:(1)> lift:(2) lev:(0.25) [2] conv:(2.5)
9. beer=false bread=true 5 ==> butter=true 5 <conf:(1)> lift:(2) lev:(0.25) [2] conv:(2.5)
10. butter=true 5 ==> beer=false bread=true 5 <conf:(1)> lift:(2) lev:(0.25) [2] conv:(2.5)

```

Fpgrowth:

Weka Explorer

Preprocess Classify Cluster **Associate** Select attributes Visualize

Associator

Choose **FPGrowth** -P 2 -I -1 -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1

Start Stop

Result list (right-click for ...)

- 12:12:35 - Apriori
- 12:12:55 - Apriori
- 12:14:25 - FPGrowth
- 12:14:44 - FPGrowth
- 12:20:39 - Apriori
- 12:21:35 - FPGrowth

Associator output

```

=== Run information ===

Scheme: weka.associations.FPGrowth -P 2 -I -1 -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1
Relation: market
Instances: 10
Attributes: 6
milk
beer
diapers
bread
butter
cookies

=== Associator model (full training set) ===

FPGrowth found 20 rules (displaying top 10)

1. [butter=false]: 5 ==> [bread=false]: 5 <conf:(1)> lift:(2) lev:(0.25) conv:(2.5)
2. [bread=false]: 5 ==> [butter=false]: 5 <conf:(1)> lift:(2) lev:(0.25) conv:(2.5)
3. [cookies=false, diapers=false]: 1 ==> [beer=false]: 1 <conf:(1)> lift:(1.67) lev:(0.04) conv:(0.4)
4. [cookies=false, butter=false]: 2 ==> [bread=false]: 2 <conf:(1)> lift:(2) lev:(0.1) conv:(1)
5. [cookies=false, bread=false]: 2 ==> [butter=false]: 2 <conf:(1)> lift:(2) lev:(0.1) conv:(1)
6. [beer=false, butter=false]: 1 ==> [bread=false]: 1 <conf:(1)> lift:(2) lev:(0.05) conv:(0.5)
7. [beer=false, bread=false]: 1 ==> [butter=false]: 1 <conf:(1)> lift:(2) lev:(0.05) conv:(0.5)
8. [milk=false, butter=false]: 3 ==> [bread=false]: 3 <conf:(1)> lift:(2) lev:(0.15) conv:(1.5)
9. [milk=false, bread=false]: 3 ==> [butter=false]: 3 <conf:(1)> lift:(2) lev:(0.15) conv:(1.5)
10. [butter=false, diapers=false]: 1 ==> [milk=false]: 1 <conf:(1)> lift:(2) lev:(0.05) conv:(0.5)

```