Cameron Bentz CSC 487 HW 5

05

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Associator output
=== Run information ===
             weka.associations.Apriori -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -c -1
Scheme:
Relation:
             transaction
Instances:
Attributes: 5
              A
              R
              C
=== Associator model (full training set) ===
Apriori
____
Minimum support: 0.2 (1 instances)
Minimum metric <confidence>: 0.9
Number of cycles performed: 16
Generated sets of large itemsets:
Size of set of large itemsets L(1): 5
Size of set of large itemsets L(2): 8
Size of set of large itemsets L(3): 3
Best rules found:
 1. A=t 2 ==> D=t 2 <conf:(1)> lift:(1.67) lev:(0.16) [0] conv:(0.8)
 2. E=t 1 ==> B=t 1 <conf:(1)> lift:(1.25) lev:(0.04) [0] conv:(0.2)
 3. E=t 1 ==> C=t 1 <conf:(1)> lift:(1.67) lev:(0.08) [0] conv:(0.4)
 4. A=t B=t 1 ==> D=t 1 <conf:(1)> lift:(1.67) lev:(0.08) [0] conv:(0.4)
 5. C=t D=t 1 ==> A=t 1 <conf:(1)> lift:(2.5) lev:(0.12) [0] conv:(0.6)
 6. A=t C=t 1 ==> D=t 1 <conf:(1)> lift:(1.67) lev:(0.08) [0] conv:(0.4)
 7. C=t E=t 1 ==> B=t 1 <conf:(1)> lift:(1.25) lev:(0.04) [0] conv:(0.2)
 8. B=t E=t 1 ==> C=t 1 <conf:(1)> lift:(1.67) lev:(0.08) [0] conv:(0.4)
 9. E=t 1 ==> B=t C=t 1 <conf:(1)> lift:(2.5) lev:(0.12) [0] conv:(0.6)
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06.1

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Associator output
=== Run information ===
            weka.associations.Apriori -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -c -1
Relation:
           supermarket
          4627
Instances:
Attributes: 217
            [list of attributes omitted]
=== Associator model (full training set) ===
Apriori
Minimum support: 0.15 (694 instances)
Minimum metric <confidence>: 0.9
Number of cycles performed: 17
Generated sets of large itemsets:
Size of set of large itemsets L(1): 44
Size of set of large itemsets L(2): 380
Size of set of large itemsets L(3): 910
Size of set of large itemsets L(4): 633
Size of set of large itemsets L(5): 105
Size of set of large itemsets L(6): 1
Best rules found:
4. biscuits=t fruit=t vegetables=t total=high 815 ==> bread and cake=t 746 <conf:(0.92)> lift:(1.27) lev:(0.03) [159] conv:(3.26)
5. party snack foods=t fruit=t total=high 854 ==> bread and cake=t 779 <conf:(0.91)> lift:(1.27) lev:(0.04) [164] conv:(3.15)
6. biscuits=t frozen foods=t vegetables=t total=high 797 ==> bread and cake=t 725 <conf: (0.91)> lift: (1.26) lev: (0.03) [151] conv: (3.06)
7. baking needs=t biscuits=t vegetables=t total=high 772 ==> bread and cake=t 701
                                                                        <conf:(0.91)> lift:(1.26) lev:(0.03) [145] conv:(3.01)
8. biscuits=t fruit=t total=high 954 ==> bread and cake=t 866 <conf:(0.91)> lift:(1.26) lev:(0.04) [179] conv:(3)
9. frozen foods=t fruit=t vegetables=t total=high 834 ==> bread and cake=t 757 <conf:(0.91)> lift:(1.26) lev:(0.03) [156] conv:(3)
10. frozen foods=t fruit=t total=high 969 ==> bread and cake=t 877 <conf:(0.91)> lift:(1.26) lev:(0.04) [179] conv:(2.92)
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Q6.2

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Associator output
=== Run information ===
        weka.associations.FPGrowth -P 2 -I -1 -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1
Relation:
        supermarket
Instances:
        4627
Attributes: 217
        [list of attributes omitted]
=== Associator model (full training set) ===
FPGrowth found 16 rules (displaying top 10)
3. [fruit=t, baking needs=t, frozen foods=t, total=high]: 770 ==> [bread and cake=t]: 705 <conf:(0.92)> lift:(1.27) lev:(0.03) conv:(3.27)
4. [fruit=t, vegetables=t, biscuits=t, total=high]: 815 ==> [bread and cake=t]: 746 <conf:(0.92)> lift:(1.27) lev:(0.03) conv:(3.26)
5. [fruit=t, party snack foods=t, total=high]: 854 ==> [bread and cake=t]: 779 <conf:(0.91)> lift:(1.27) lev:(0.04) conv:(3.15)
9. [fruit=t, vegetables=t, frozen foods=t, total=high]: 834 ==> [bread and cake=t]: 757 <conf:(0.91)> lift:(1.26) lev:(0.03) conv:(3)
```