**Q4:**

=== Run information ===

Scheme:       weka.associations.Apriori -N 5 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -c -1

Relation:     supermarket-weka.filters.unsupervised.attribute.Remove-R1-9,11,57,70,79-81,88-89,98,100-102,107-114,116-120,122-130,137-179,189,192-199,201-216

Instances:    4627

Attributes:   106

              [list of attributes omitted]

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

Apriori

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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): 41

Size of set of large itemsets L(2): 347

Size of set of large itemsets L(3): 855

Size of set of large itemsets L(4): 617

Size of set of large itemsets L(5): 105

Size of set of large itemsets L(6): 1

Best rules found:

1. biscuits=t frozen foods=t fruit=t total=high 788 ==> bread and cake=t 723    <conf:(0.92)> lift:(1.27) lev:(0.03) [155] conv:(3.35)

2. baking needs=t biscuits=t fruit=t total=high 760 ==> bread and cake=t 696    <conf:(0.92)> lift:(1.27) lev:(0.03) [149] conv:(3.28)

3. baking needs=t frozen foods=t fruit=t total=high 770 ==> bread and cake=t 705    <conf:(0.92)> lift:(1.27) lev:(0.03) [150] conv:(3.27)

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)

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**Q5:**

=== Run information ===

Scheme:       weka.associations.Apriori -N 5 -T 0 -C 0.1 -D 0.05 -U 1.0 -M 0.001 -S -1.0 -c -1

Relation:     supermarket-weka.filters.unsupervised.attribute.Remove-R10,12-56,58-69,71-78,82-87,90-97,99,103-106,115,121,131-136,180-188,190-191,200,217

Instances:    4627

Attributes:   111

              [list of attributes omitted]

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

Apriori

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Minimum support: 0.05 (236 instances)

Minimum metric <confidence>: 0.1

Number of cycles performed: 19

Generated sets of large itemsets:

Size of set of large itemsets L(1): 5

Size of set of large itemsets L(2): 3

Best rules found:

1. department122=t 1112 ==> department137=t 549    <conf:(0.49)> lift:(1.23) lev:(0.02) [103] conv:(1.18)

2. department1=t 1047 ==> department137=t 454    <conf:(0.43)> lift:(1.08) lev:(0.01) [34] conv:(1.06)

3. department137=t 1854 ==> department122=t 549    <conf:(0.3)> lift:(1.23) lev:(0.02) [103] conv:(1.08)

4. department1=t 1047 ==> department122=t 288    <conf:(0.28)> lift:(1.14) lev:(0.01) [36] conv:(1.05)

5. department122=t 1112 ==> department1=t 288    <conf:(0.26)> lift:(1.14) lev:(0.01) [36] conv:(1.04)