COP 4722 – Survey of Database Systems <u>Assignment 5</u>

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Course: COP 4722

Assignment#: 5

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I hereby certify that this work is $\ensuremath{\mathsf{my}}$ own and none of

it is the work of any other person.

Signature: <u>CBarrios</u>

```
Customer
             ItemBought
             ========
Daniel
            Cereal
Daniel
            Cheese
Daniel
             Juice
Julie
            Cereal
Julie
            Cheese
Mark
             Cereal
Mark
            Eggs
Mark
            Juice
Mark
            Shampoo
Paulin
            Cereal
Paulin
             Cheese
Ricardo
            Cereal
Ricardo
            Cheese
Sophia
             Cereal
Sophia
             Cheese
Sophia
           Shampoo
Minimum support value: 0.15
Result of L-1 itemset:
   Cereal
          6
            5
   Cheese
   Juice
            2
           1
   Eggs
   Shampoo
Result of L-2 itemset:
              Cheese 5
   Cereal
     Cereal ==> Cheese Confidence = 0.83, Interest = 0.00
       Support: LHSuRHS = 0.83, LHS = 1.00, RHS = 0.83
     Cheese ==> Cereal Confidence = 1.00, Interest = 0.00
       Support: LHSuRHS = 0.83, LHS = 0.83, RHS = 1.00
              Juice
     Cereal ==> Juice Confidence = 0.33, Interest = 0.00
       Support: LHSuRHS = 0.33, LHS = 1.00, RHS = 0.33
     Juice ==> Cereal Confidence = 1.00, Interest = 0.00
       Support: LHSuRHS = 0.33, LHS = 0.33, RHS = 1.00
              Eggs
                        1
     Cereal ==> Eggs Confidence = 0.17, Interest = 0.00
       Support: LHSuRHS = 0.17, LHS = 1.00, RHS = 0.17
     Eggs ==> Cereal Confidence = 1.00, Interest = 0.00
       Support: LHSuRHS = 0.17, LHS = 0.17, RHS = 1.00
           Shampoo
     Cereal ==> Shampoo Confidence = 0.33, Interest = 0.00
       Support: LHSuRHS = 0.33, LHS = 1.00, RHS = 0.33
     Shampoo ==> Cereal Confidence = 1.00, Interest = 0.00
       Support: LHSuRHS = 0.33, LHS = 0.33, RHS = 1.00
```

```
Cheese ==> Juice Confidence = 0.20, Interest = 0.13
        Support: LHSuRHS = 0.17, LHS = 0.83, RHS = 0.33
     Juice ==> Cheese Confidence = 0.50, Interest = 0.33
       Support: LHSuRHS = 0.17, LHS = 0.33, RHS = 0.83
   Cheese Shampoo 1
     Cheese ==> Shampoo Confidence = 0.20, Interest = 0.13
       Support: LHSuRHS = 0.17, LHS = 0.83, RHS = 0.33
     Shampoo ==> Cheese Confidence = 0.50, Interest = 0.33
       Support: LHSuRHS = 0.17, LHS = 0.33, RHS = 0.83
   Juice Eggs
                          1
     Juice ==> Eggs Confidence = 0.50, Interest = 0.33
       Support: LHSuRHS = 0.17, LHS = 0.33, RHS = 0.17
     Eggs ==> Juice Confidence = 1.00, Interest = 0.67
       Support: LHSuRHS = 0.17, LHS = 0.17, RHS = 0.33
              Shampoo
                        1
     Juice ==> Shampoo Confidence = 0.50, Interest = 0.17
        Support: LHSuRHS = 0.17, LHS = 0.33, RHS = 0.33
     Shampoo ==> Juice Confidence = 0.50, Interest = 0.17
       Support: LHSuRHS = 0.17, LHS = 0.33, RHS = 0.33
   Eggs Shampoo 1
     Eggs ==> Shampoo Confidence = 1.00, Interest = 0.67
        Support: LHSuRHS = 0.17, LHS = 0.17, RHS = 0.33
     Shampoo ==> Eggs Confidence = 0.50, Interest = 0.33
       Support: LHSuRHS = 0.17, LHS = 0.33, RHS = 0.17
Result of L-3 itemset:
     CerealCheeseJuiceCerealCheeseShampooCerealEggsJuice
                                   1
              Eggs
Eggs
                         Shampoo
                                    1
     Cereal
                                    1
     Cereal
              Juice
                         Shampoo
              Juice
                         Shampoo
     Eggs
Result of L-4 itemset:
     Cereal
                     Juice Shampoo
             Eggs
Result of L-5 itemset:
```

Cheese

Juice