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Name: Ernesto Diaz

Panther-ID: x x x - 0534

Course: COP 4722

Assignment#: 5

Due: Wed, Apr 4, 2018

I hereby certify that this work is my own and none of
it is the work of any other person.

Signature: _____

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Customer	Items Bought
Daniel	cereal, cheese, juice
Julie	cereal, cheese
Mark	cereal, eggs, juice, shampoo
Paulin	cereal, cheese
Ricardo	cereal, cheese
Sophia	cereal, cheese, shampoo

Minimum support value: 0.15

Result of L-1 itemset:

cereal	6
cheese	5
eggs	1
juice	2
shampoo	2

Result of L-2 itemset:

cereal	cheese	5
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cereal → cheese Confidence = 0.83, Interest = 0.00
Support: LHS ∪ RHS = 0.83, LHS = 1.00, RHS = 0.83

cheese → cereal Confidence = 1.00, Interest = 0.00
Support: LHS ∪ RHS = 0.83, LHS = 0.83, RHS = 1.00

cereal eggs 1

cereal → eggs Confidence = 0.17, Interest = 0.00
Support: LHS ∪ RHS = 0.17, LHS = 1.00, RHS = 0.17

eggs → cereal Confidence = 1.00, Interest = 0.00
Support: LHS ∪ RHS = 0.17, LHS = 0.17, RHS = 1.00

cereal juice 2

cereal → juice Confidence = 0.33, Interest = 0.00
Support: LHS ∪ RHS = 0.33, LHS = 1.00, RHS = 0.33

juice → cereal Confidence = 1.00, Interest = 0.00
Support: LHS ∪ RHS = 0.33, LHS = 0.33, RHS = 1.00

eggs juice 1

eggs → juice Confidence = 1.00, Interest = 0.67
Support: LHS ∪ RHS = 0.17, LHS = 0.17, RHS = 0.33

juice → eggs Confidence = 0.52, Interest = 0.35
Support: LHS ∪ RHS = 0.17, LHS = 0.33, RHS = 0.17

cheese juice 1

cheese → juice Confidence = 0.40, Interest = 0.07
Support: LHS ∪ RHS = 0.33, LHS = 0.83, RHS = 0.33

juice → cheese Confidence = 1.00, Interest = 0.17
Support: LHS ∪ RHS = 0.33, LHS = 0.33, RHS = 0.83

cheese shampoo 1

cheese → shampoo Confidence = 0.33, Interest = 0.00
Support: LHS ∪ RHS = 0.33, LHS = 1.00, RHS = 0.33

shampoo → cheese Confidence = 1.00, Interest = 0.00
Support: LHS ∪ RHS = 0.33, LHS = 0.33, RHS = 1.00

eggs shampoo 1

eggs → shampoo Confidence = 1.00, Interest = 0.67
Support: LHS ∪ RHS = 0.17, LHS = 0.17, RHS = 0.33

eggs → shampoo Confidence = 0.52, Interest = 0.35
Support: LHS ∪ RHS = 0.17, LHS = 0.33, RHS = 0.17

juice shampoo 1

juice → shampoo Confidence = 1.00, Interest = 0.67
Support: LHS ∪ RHS = 0.33, LHS = 0.33, RHS = 0.33

shampoo → juice Confidence = 1.00, Interest = 0.67
Support: LHS ∪ RHS = 0.33, LHS = 0.33, RHS = 0.33

cereal shampoo 2

cereal → shampoo Confidence = 0.33, Interest = 0.00
Support: LHS ∪ RHS = 0.33, LHS = 1.00, RHS = 0.33

shampoo → cereal Confidence = 1.00, Interest = 0.00
Support: LHS ∪ RHS = 0.33, LHS = 0.33, RHS = 1.00

Result of L-3 itemset

cereal	cheese	juice	1
cereal	eggs	juice	1
cereal	cheese	shampoo	1
cereal	eggs	shampoo	1
eggs	juice	shampoo	1
cereal	juice	shampoo	1

Result of L-4 itemset:

cereal	eggs	juice	shampoo	1
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Result of L-5 itemset:

Empty