Project6 -

Q1:

GroupName: Violet

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Q2:

$$(a)(NotSure)I4 -> I5$$

(b)For association rule I1->I6,

$$support(I1 -> I6) = support(< I1, I6>) = 2$$

confidence(I1->I6) =
$$\sup(\langle I1, I6 \rangle)/\sup(I1) = 2/3$$

$$lift(I1->I6) = conf(I1->I6)/rsup(I6) = conf(I1->I6)/(sup(I6)/|Trans.|)$$

$$= (2/3)/(3/5) = 10/9$$

conviction(I1->I6) =
$$(1-\text{rsup}(I6))/(1-\text{conf}(I1->I6)) = (1-3/5)/(1-2/3)$$

= $(2/5)/(1/3) = 6/5$

Q3:

Minsup is 3

C1

Itemset	Sup
А	1
С	2
D	1
E	4
1	1
K	5
M	3
N	2
0	3
U	1
Y	3

L1

Itemset	Sup
E	4
K	5
М	3
0	3
Y	3

C2

Sup
4
2
3
2
3
3
3
1
2
2

L2

Itemset	Sup
E,K	4
E,O	3
K,M	3
K,O	3
K,Y	3

C3

Itemset	Sup
E,K,O	3
E,K,M	2
E,K,Y	2
E,O,M	1
E,O,Y	2
K,M,O	1
K,M,Y	2
K,O,Y	2

L3

Itemset	Sup
E,K,O	3

End

Frequent Itemsets Identified with misup=3

Itemset	Sup
E	4
K	5
М	3
0	3
Y	3
E,K	4
E,O	3
K,M	3
K,O	3
K,Y	3
E,K,O	3