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MODULE NAME: DATA MINING AND ANALYTICS

MODULE CODE: COU 08104

CLASS: BENG 22 COE

From the question we are given

Min_support = 40% also we have 7 transaction

So minimum support count = $0.4 \times 7 = 2.8$ approximated equal to 3

So an itemset is frequent if it appears in at least 3 transaction

Frequent itemsets

1 – itemsets (L1)

Item	Count
Bread	6
Milk	6
Diaper	6
Beer	4
Coke	3
Chips	2
Mustard	2
Eggs	1

Since we take items which appear ≥ 3 therefore Chips, Mustard and Eggs are not included

So the frequent itemset 1 are will be having only Bread, Milk, Diaper, Beer and Coke.

2-itemsets (L2)

Itemset	count
{Bread, Diaper}	5
{Bread, Milk}	5
{Diaper, Milk}	5
{Beer, Diaper}	4
{Beer ,Bread}	3
{Beer ,Milk}	3
{Coke, Diaper}	3
{Coke, Milk}	3

Since we are taking itemset that appear ≥ 3 so {bear, Coke} and {Coke, Bread} will be neglected since they appear less than 3.

3 – itemset (L3)

Itemset	Count
{Bread, Diaper, Milk}	4
{Beer, Bread, Diaper}	3
{Beer, Diaper, Milk}	3

{Coke, Diaper, Milk}	3
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