Example 4.2.2.3

Example: $X= \{ \text{Beer, Milk, Diaper } \}; \sigma(X)= ?$ $X= \{ Milk, Diaper \}; \sigma(X)= ?$

Consider the rule $\{Milk, Diaper\} \rightarrow \{Beer\}$

Support($\{\text{Milk, Diaper}\} \rightarrow \{\text{Beer}\}\) = 2/5 = 0.40$ Confidence({Milk, Diaper} \rightarrow {Beer}) = 2/3 = 0.67

TID	Items
1	Bread, Coke, Milk
2	Beer, Bread
3	Beer, Coke, Diaper, Milk
4	Beer, Bread, Diaper, Milk
5	Coke, Diaper, Milk

Solution

OX= { Beer, Milk, Diaper 5

O(X)=2 X contain I tem twice ting

x= {Milk Diaper}

o (x)= 3

@ the rule IM, D) -> (B)

Support ([MD] -)[B] = $\frac{C(MDUB)}{[T]} = \frac{2}{3}$ confidence ([MO] -)[B] = $\frac{2}{3}$