

2. ASSOCIATION RULE MINING

TID	ITEMS
t ₁	C, A, D
t ₂	A, B
t ₃	C, A, B
t ₄	C, D, E
t ₅	A, E
t ₆	C, A, B
t ₇	C, D
t ₈	A, B

A = APPLE
B = BEER
C = CHIPS
D = DIAPERS

DETERMINE FOR THESE TRANSACTIONS THE FREQUENT ITEMSETS WITH MINIMUM SUPPORT OF 25%. USE THE APRIORI ALGORITHM.

C₁

ITEMSET	SUPPORT
{A}	6/8
{B}	4/8
{C}	5/8
{D}	3/8
{E}	2/8

L₁ = C₁

C₂

ITEMSET	SUPPORT
{A, B}	4/8
{A, C}	3/8
{A, D}	1/8
{A, E}	1/8
{B, C}	2/8
{B, D}	0/8
{B, E}	0/8
{C, D}	3/8
{C, E}	1/8
{D, E}	1/8

C₃

ITEMS	SUPPORT	L ₂
{A, B, C}	2/8	YES
{A, B, D}		NO
{A, C, D}		NO
{B, C, D}		NO

L₂

ITEMSET	SUPPORT
{A, B}	4/8
{A, C}	3/8
{B, C}	2/8
{C, D}	3/8

L₃

ITEMS	SUPPORT
{A, B, C}	2/8