

Gentry Atkinson
CS7312
Assignment 3

1)

TID	Items
T100	{m,o,n,k,e,y}
T200	{d,o,n.k.e.y}
T300	{m,a,k,e}
T400	{m,u,c,k,y}
T500	{c,o,k,i,e}

min_sup = 60%, min_conf = 80%

a)

C1: {m, o, n, k, e, y, d, a, u, c, i}

L1: {m, o, k, e, y}

C2: {mo, mk, me, my, ok, oe, oy, ke, ky, ey}

L2: {mk, ok, oe, ke, ky}

C3:{oke}

L3: {oke}

b)

m -> k with support 60% and confidence 100%

o -> k with support 60% and confidence 100%

o -> e with support 60% and confidence 100%

k -> e with support 80% and confidence 80%

e -> k with support 80% and confidence 100%

y -> k with support 60% and confidence 100%

ok -> e with support 60% and confidence 100%

oe -> k with support 60% and confidence 100%

2)

$\text{min_sup} = 8$

$\{a, b, c, d\}$ with support 9

$\{a, b, c\}$ with support 11

$\{a, b, d\}$ with support 13

a)

$\{a, b, c, d\}$

b)

$\{a, c, d\}$ with support 9

$\{a, b\}$ with support 13

$\{a, c\}$ with support 11

$\{a, d\}$ with support 13