

Ex: 1:

1st Scan

Itemset	Sup Count
$\{I_1\}$	6
$\{I_2\}$	7
$\{I_3\}$	6
$\{I_4\}$	2
$\{I_5\}$	2

Compare candidate
Support Count with
min

2nd Scan

Itemset	Sup Count
$\{I_1\}$	6
$\{I_2\}$	7
$\{I_3\}$	6
$\{I_4\}$	2
$\{I_5\}$	2

2nd Scan

3rd Scan

Itemset	Sup. Count
$\{I_1, I_2\}$	4
$\{I_1, I_3\}$	4
$\{I_1, I_4\}$	1
$\{I_1, I_5\}$	2
$\{I_2, I_3\}$	4
$\{I_2, I_4\}$	2
$\{I_2, I_5\}$	2
$\{I_3, I_4\}$	0
$\{I_3, I_5\}$	1
$\{I_4, I_5\}$	0

Compare candidate
support count
with min Support

4th Scan

Itemset	Sup. Count
$\{I_1, I_2\}$	4
$\{I_1, I_3\}$	4
$\{I_1, I_4\}$	0
$\{I_1, I_5\}$	2
$\{I_2, I_3\}$	4
$\{I_2, I_4\}$	2
$\{I_2, I_5\}$	2

Generate C_3
candidates
from L_2

Itemset

$\{I_1, I_2, I_3\}$

$\{I_1, I_2, I_5\}$

$\{I_1, I_2, I_4\}$

$\{I_1, I_3, I_5\}$

$\{I_1, I_3, I_4\}$

$\{I_2, I_3, I_4\}$

$\{I_2, I_3, I_5\}$

$\{I_2, I_4, I_5\}$

C_2

Itemset

$\{I_1, I_2, I_3\}$

$\{I_1, I_2, I_5\}$

Search for each
candidate

C_3

Itemset

Sup. Count

$\{I_1, I_2, I_3\}$

2

$\{I_1, I_2, I_5\}$

2

compare with
min^m Support

L_3

Itemset

Sup. Count

$\{I_1, I_2, I_3\}$

2

$\{I_1, I_2, I_5\}$

2

C_4

$\{I_1, I_2, I_3, I_5\}$

$\rightarrow \{I_1, I_2, I_3\}$

$\{I_1, I_2, I_5\}$

$\{I_1, I_3, I_5\}$

$\{I_2, I_3, I_5\}$

$C_4 = \emptyset$

$\{I_1, I_2, I_3\}$

$\hookrightarrow \{I_1, I_2\} \rightarrow I_3$

$\{I_1, I_3\} \rightarrow I_2$

$\{I_2, I_3\} \rightarrow I_1$

$I_1 \rightarrow \{I_2, I_3\}$

$I_2 \rightarrow \{I_1, I_3\}$

$I_3 \rightarrow \{I_1, I_2\}$

$\{I_1, I_2, I_5\} \rightarrow \{I_1, I_2\} \rightarrow I_5$

$\{I_1, I_5\} \rightarrow I_2$

$\{I_2, I_5\} \rightarrow I_1$

$I_5 \rightarrow \{I_1, I_2\}$

$I_2 \rightarrow \{I_1, I_5\}$

$I_1 \rightarrow \{I_2, I_5\}$