

TID	CID	Date	Item	Qty
111	201	5/1/99	Pen	2
111	201	5/1/99	Ink	1
111	201	5/1/99	Milk	3
111	201	5/1/99	Juice	6
112	105	6/3/99	Pen	1
112	105	6/3/99	Ink	1
112	105	6/3/99	Milk	1
113	201	5/10/99	Pen	1
113	201	5/10/99	Milk	1
114	201	6/1/99	Pen	2
114	201	6/1/99	Ink	2
114	201	6/1/99	Juice	4
114	201	6/1/99	Water	1

Apriori Algorithm

```

foreach item i
  check if {i} is a frequent itemset
endfor
k = 1
repeat
  foreach frequent itemset I(k) with k items
    generate all itemsets I(k+1) with k+1 items
    such that I(k) is a subset of I(k+1)
  endfor
  scan all transactions once and
  check if the generate I(k+1) are frequent
  k = k+1
until no new frequent itemsets are identified

```

Exercise 26.2.1 from the textbook:

Simulate the algorithm for finding frequent itemsets on the table in Fig 26.1 with $minsup=90\%$ and then find the association rules with $minconf=90\%$.