|  |  |
| --- | --- |
| **TID** | **Item** |
| T100 | 1,3,4 |
| T200 | 2,3,5 |
| T300 | 1,2,3,5 |
| T400 | 2,5 |

**Dataset T**

**Minsup=0.5**

Itemset:count

1.scan T 🡪C1:{1}:2,{2}:3,{3}:3,{4}:1,{5}:3

🡪F1: {1}:2,{2}:3,{3}:3, {5}:3

🡪C2:{1,2},{1,3},{1,5},{2,3},{2,5},{3,5}

2.scan T 🡪C2: {1,2}:1,{1,3}:2,{1,5}:1,{2,3}:2,{2,5}:3,{3,5}:2

🡪F2: {1,3}:2, {2,3}:2,{2,5}:3,{3,5}:2

🡪C3: {2,3,5}

3.scan T 🡪C3:{2,3,5}:2 🡪 F3:{2,3,5}

**Details:the algorithm**

Algorithm Apriori(*T*)

C1🡨init-pass(*T*);

F1🡨{f|f ϵ C1,f.count/n≥minsup}; //n:no. Of transactions in

T

For(k=2;Fk-1≠Ф;k++)do

Ck🡨candidate-gen(Fk-1);

for each transaction t ϵ T do

for each candidate c ϵ Ck do

if c is contained in t then

c.count++;

end

end

Fk🡨{c ϵ Ck | c.count/n ≥ minsup}

end

return F🡨UkFk;