T.E. COMPG - DEC 19



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consider the transaction database given below TID Items use Aprion Algorithm with run-10 1,3,4 support count = 2 and min-20 21315 confidence = 60% to find all 30 1,2,3,5 40 2,5 frequent itemsets & association 50 1,3,5 lules.

Step 1: Generate 1-Itemset with corresponding support.

Item Set	Support	minsup = 2
{ 1 }	3	
{2}	3	
{3}	4	
243	\ i -	set as minsup Entena not met.
{53	4	Itemset Support
		5.2

Step 2 : Peuaning & generating condidate Itemsets

i	1
513	3
£ 23 £ 33	3
{33	4
, {53	4 -
iner a	0

Step 3: Generating 2-Itemset with corresponding Support.

		and the same of th		
Item	Support	Step 4	¿ Penning	& genera
\$1,23	1-X		rdidate set	2
21,33	3	J	DALADOF ST	4.26
21,53	2	Item	support	
	end and a state of	\$ 1,33	3	
22,33	2	21,57	2	
2253	3	22132	2	x
{3153	3	22,53	3	
	1.0	23,53	3 ,	2.0

step 5 : Generating 3-Itemset with corresponding support.

Item	Support	Step 6: P	euning t	o generate
21,3,53	2	Step 6: P	andidate	set.
21,3,23	1-X		support	
22,3,53	2	£ 1,3,53	i	
	Ţ.	2 2 13 153	2	
			3 -	

stept: Generating 4 - Itemset.

Item	Support	This item set does not
11,3,5,23	1_	satisfy minsup criteria
7		hance will not be
		considered.



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Generating Frequent Itemsets from Step 6

至1,3,53 年至2,3,53

	7	
Generating Association	on eules	from these Itemsels
	support	Confidence
1 {1,3} -> 5	2	S({113} U {5})
$2\left\{1,5\right\}\longrightarrow 3$	2	5(\{\}1,3\} = \frac{2}{3} =66% 2/2 = 100%
3 23,53 -> 1	2	2/3 = 66%
4 213 -> 23,53	2	2/3 = 66%
5 {3}→ {1,5}	2	2/4 = 50% x
$6 \left\{ 5\right\} \longrightarrow \left\{ 1,3\right\}$	2	2/3 = 50% ×
7 {23 -> {3,53	2	2/3 = 66%
8 { 3} -> { 2,5}	2	2/4 = 50%
9 {5} -> {2,3}	2	2/4 = 50% ×
$\begin{array}{c c} 10 & \{2,3\} & \rightarrow \$5 \\ 11 & \{3,5\} & \rightarrow \}2 \\ \end{array}$	2	2/2 = 100%
	2	2/3 = 66%
12 {2,5} -> {3}	2	2/3 = 66%

Rule 5,6,8,9 does not satisfy minimum confidence criteria (60%), hence cannot be considered as strong association eules

			9
	5	following Rule 1,3 -> 5	- Confidence association - Confidence 66 %
	2	1,5 -> 3	100 %
	3	3,5 -> 1	66 %
	4	1 ->3/5	66 1
•	5	2 ->3,5	66 Y.
	-6	213 ->.5	100 1/.
	7	3,5 -> 2	66 7.
	-		66 1