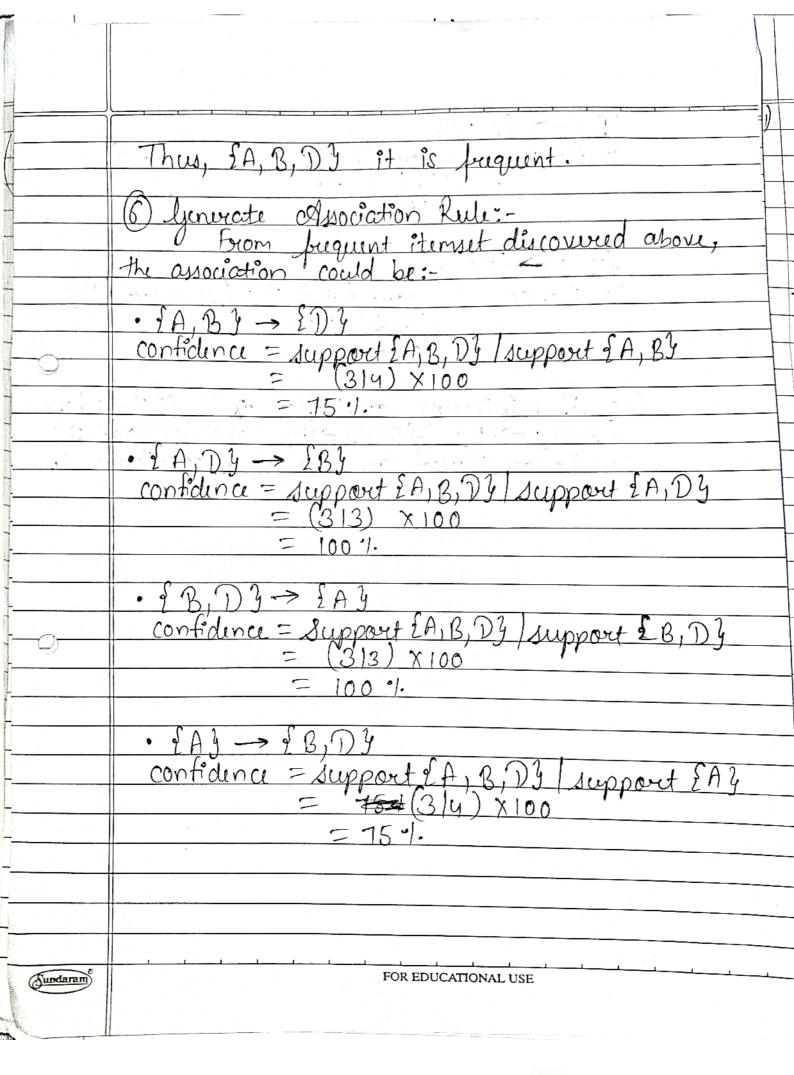
| (O·1) | A database has four transactions. Let min sup=601; min-conf = 80%. Apply Apriori algorithm to find the frequent itemsets and the Strong association ransaction Date List of items Transaction Date List of items Transaction Date SK, A, D, By T200 10 15 99 SD, A, C, E, By T300 10 19 99 EC, A, B, Ey T400 10 122 99 EB, A, Dy | So |
|----------|--|----|
| Qb1n2- | Support thrushold = 60° . .: min_sup = 0.6×9 . .: min_sup = 2.4 .: min_sup = 2.4 | |
| | O Count of each Itemset (C1) by scanning the database Itemset Count E A 4 | |
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| | Brune step (21):- CI show that I temset ic y ley and & ky does not meet the min sup. |
|----------|--|
| | Items ut Canal meet the min sup. |
| | Itemset Count |
| | S B 4 4 |
| | \$ By 4 |
| | |
| | (3) Join step (C2): - Form G from L, ML, and |
| | 3 Join step (C2):- Form G from L, ML, and find out their occurrences. |
| | Itemset Count |
| | JA, B3 |
| | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| | |
| | 9 Poune step (12):- G show that all I ternset does met the min sup. |
| | mes mes me min_sup. |
| | I temset Count ? |
| | £ A, B 3 |
| | 2 A, D3 3 |
| | 16,109 |
| | (5) Join step (C3):- Form (2 home 1 M) |
| | find out their occurrence |
| | occooding. |
| | Itemset Gunt |
| | 1 A,B,D9 3 |
| | |
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| | $fBJ \rightarrow fA, DJ$ Confidence = supposet fA, B, DJ supposet fBJ = $(314) \times 100$ |
|-------------------|---|
| | confidence = support 2A, B, D3 support &B4 |
| | $=$ $(3 4) \times 100$ |
| | |
| | |
| | (D) → {A,B} Confidence = support {A,B,D} / support dDy = (3/3) × 100 = 100 % |
| | Confidence = support (A,B,'D') / support d'D'9 |
| | $= (3 3) \chi_{100}$ |
| | = 100 % |
| | (o o o o o o o o o o o o o o o o o o o |
| | So if minimum confidence \$\infty \text{is 80.1.} then \$\infty \text{A,Dy} \rightarrow \infty \text{By} \text{,LB,D3} \rightarrow \infty \text{And IDy} \rightarrow \infty \text{A,By} can be considered as strong association rule. |
| | Con be sonidered as there a surrenting will |
| | association saud. |
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| | and the contraction with the first the contraction of the contraction |
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| (0,1) | lian coate l | . ^ |
|------------------|--|------------------------------------|
| - X 1 | Generate frequent pattern free for the following transaction with 30% minimum support. | |
| - | Transaction ID Items | |
| | $\begin{array}{c c} \hline T1 & E,A,D,B \\ \hline T2 & D,A,C,E,B \end{array}$ | 2 |
| | Ty B, A, D | |
| | 75 D 76 D.B | |
| | T7 A,D,E | the second second |
| 08017 | Osun rount = 3 x 20.1 = 3 x 0.2 - 2.11 | |
| | Sup_count = 3×30-1. = 3×0.3 = 2.4 Sup_count = 2.4 | |
| | Step 1:- Scan the database for count the each | |
| | Item set Supcount | - |
| | B 6 | |
| | | - |
| | E 4 | |
| | | _ |
| | | |
| | | 1 |
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| | | Propinist Alphabet Specimen (Carlo |

| 24 | Step 2:- Sout the set of frequent Itemset in the order of descending support order. |
|----------|---|
| | order of discending support order. |
| | |
| | Itenset Sup count |
| | <u>B</u> 6' |
| | 6 |
| | H |
| | E |
| | |
| | |
| | Step 3:- Scan the database for and time sort item in each transaction according to descending support count |
| | item in each transaction according |
| | to discending support count |
| | Transaction ID Item bought |
| | Ti & B, D, A, E J |
| | $T_2 \qquad S_0 \cap A = C_1$ |
| | T3 & B, A, E, C3 |
| <u> </u> | T4 (8, D) A3 |
| | T5 193 |
| | 5 6 |
| | $\frac{1}{\sqrt{2}}$ |
| | 1 2 b) (9 |
| | |
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