Offiver a simple transactional data base X:

TID TOI TO2 TO3 TO4 TO5 TOG TO7 TO8

Thems A,B,C,D A,C,D,F C,D,E,G,A A,D,F,B B,C,G D,F,G A,B,G C,D,F,G

Using the Howhold values Support = 25%, Contidence = 60%, find
all large itemsets in database X.

Ary) Given,

TID TO 1 TO 2 TOS TOY TOS TOG TOT TOS

Themy {A,B,C,B} {A,C,P,F} {C,P,E,G,A} {A,D,F,B} {B,C,G} {D,F,G} {A,B,G}{C,D,F,G}

Calculating Dupkott 4the

we can use Apriori algorithm to find all large itemsets.

Calculating Support thoushold

Given Support = 15% = 0.25

Total transactions = 8

Support Houshold = 0.25x8=2

```
Grenerating 1-itemsets.
    (A) -> Support & ount = 5, Support = 5 × 100 = 62.5%
    {B3 -> Support Count = 4, Support = 4 ×100 = 50%
    {c3-> Support Count=5, Support = \frac{5}{8} x100=62.50/3
    803-) Support Count=6, Support= & ×100 = 75%
    (E) - Support Count = 1, Support = 1 x 100 = 12:5%
     SFJ -) Support Count=4, Support = 4x100 = 50%
    ¿Gy -> Support Count = 5, Support = 5 x 100 = 62.50/0
  Large 1-item sets with Support thoushold But 22 we
      SEAY, EBY, ECY, EOJ, (F), (G) Y
 Generating 2-item sets.
  Item Set Support Court
                                       $0, F4
    &A,BY
                                        SD, Gili.
    {A,c}
                                        SF, Gy
    SAIDY
    SAIFS
    3A,63
                   2
    SB, CJ
                   2
    EB,03
                   0
    SB, FY
                  #12
3B,GJ FINAN
   80,03
                  194
    SC, FS
                  2
    SC, Gy
                  3
```

Longe 2-itemsets (Support Count Z2)
{{A,B3, {A,C3, {A,O3, {A,F3, {A,G3, {B,C3, {B,O3, {B,G3, {C,O3}}}}, {C,F3, {C,G3, {D,G3, {F,G3}}}}}
{c,F3, {c,G3, {D,F3, {D,G3, {F,G3}}}

Generate	3 itemsets		2 item sets		
· Hensel	Support Co	und	2 27	•	
{A,Bec}	1		EA,D,GJ) ()	
EA,B,D3	2		ξρ, F, G, ζ ξβ, C, D, ζ		
EA,B,F3		۲	EB, C, FJ	0	
{A,B,G3	9 N		SB,C,GB	1	
SA, (,D3	3 1		SB,0,F3	1	
SA,C,F3	1		EB, F, G3	0 2	
(A,C,G)	2		& C, D, G Y	2	
SA, D, F3			EC, P, 6,3	1	
			80, F, G. 3	2	

Large 3-item Sets (Support Count Z2)
{ {A,B,D}, Q, {A,C,D}, {A,D,F}, {C,D,F}, {C,D,G}, {D,F,G}}