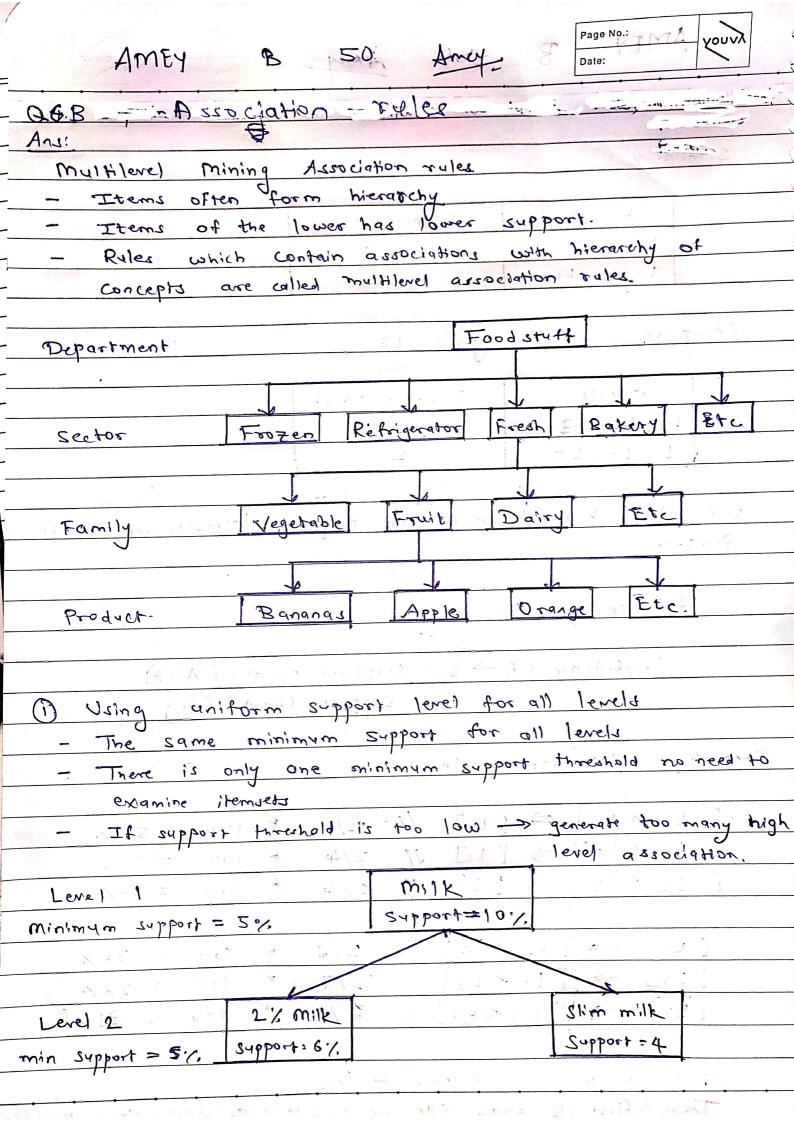
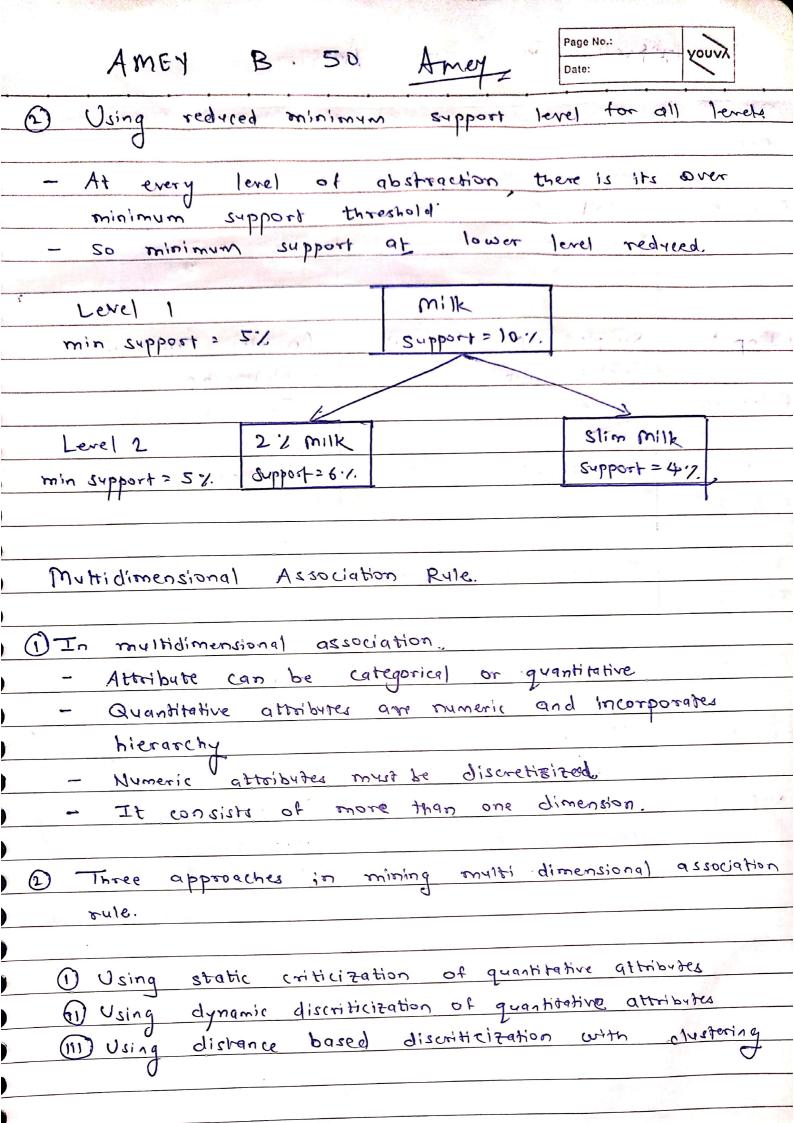
Name: AMEY THAKUR COMPS Cla	ass: TE Div: B Roll No: 50
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B6.A)	
Hierarchical Clustering	
- A hierarchical clustering method	works ria assuping
data into a tree of cherer.	3 , J
- Hierarchical clustering begins by point as separate chuster.	toeating every data
- Then it is repeatedly executés	the subsequent
Steps	= 1.0.(3pton)
(C) The still is a still in the	
1 Identify the two charers which together and	h can be closed
D merge 2 maximum compara	ble charers.
his item to continue there is	tope until all clusters
are merged together.	
- T 11:	
- In Hierarchical clustering, the	aim is to produce
- A diagram called dendlogram	d clusters
represents this Mierarchy and	graphically
tree that describe the orde	A la wasted
factors are merged or chuste	r are break & A
Method to generate hierarchical U	Insterna que
1) Aggdomerative 2) Divisive	<u> </u>
DIVISIVE	
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6 A)						
K-means Algorithm						
method 1						
1) Randomly assign means: m1 = 3, m2 = 4						
2) The numbers which are close to mean						
m, = 3 are commen						
m, = 3 are grouped into chares K,						
m2 = 4 are grouped into cluster K2						
(3) Again and allow						
Carlengte Alone						
Cluster 220162						
(A) W = 50 02						
K1 = \$2,39						
(4) $K_1 = \{2,3\}$ $K_2 = \{4,10,12,20,30,11,25\}$ $M_1 = 2-5$ $M_2 = 16$						
(3) K, = {2,3,43, K2 = {10,12,20,30,11,25}						
18 = 3 ws = 18						
(6) $K_1 = \{2,3,4,10\}$ , $K_2 = \{12,20,30,11,25\}$						
$m_1 = 4.70$ $m_2 = 19.6$						
(7) K; = } 2, 2, 4, 10 11, 12 } Ka = 82020 242						
$(7)$ $K_1 = \{2, 2, 4, 10, 11, 123, K_2 = \{20, 30, 25\}$ $m_1 = 7$ , $m_2 = 25$						
(3) K, = {2, 2, 4, 10, 11, 22} Kz = {20, 30, 25}						
9						
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	L
9) Stop as the charte	to which means
(in step 7 48) c	ise the some.
The chesters in la	est o desois are igantical.
( So the Ara) answ	ver 15 k, 2 {2,3,410,11, N)
K2 = {20,30, 20}	





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1) Using static	discritiza	tion of c	vantitative	attributes				
- Discritization - Discritized	stempases o	are treated	as categ	orical				
- Use apriori predicate set scans.	s. (this	requires 'k	or K+1	table	1			
- Eq It in buys) is f	- Every subset of frequent predicate set must be frequent - Eq If in a data cube the 3D cuboid (age, income buys) is frequent implies (age, income) (age, buys)							
- Data cubes are well suited for onining stace								
- The cells of an indimensional data cuboid correspond to the predicate cells.								
Duing dynamic discritization of quantitative attribute								
- Known as mining quantitative association rules  - Numeric attributes are dynamically discreticized  - Eq: age (x, "20.25") A income (x, "301.41.4") byys  (x, "Laptop Computer")								
( x , "	Laptop Cor	nputer")						
	Age = 20	Age=21	Age =22	Age = 23				
income 38 to 41 income, 34 to 37 income, 30 to 32								

Grid for Tuples.

	3.7	Amey	B	50	A	tmey_	ę	Page No	).:	7	γουνχ	
3	rizU	ng dist	ance	based	discri	tizatio	n w	ith	clus	terl	ng	
	fI	involves	a tw	o Ste	Pw	ning	beace	21d				
	->	involves Perdorm involved	Cluste	ring t	o fina	d the	inter	ral	૦૧	att	i byte	<u> </u>
	->	Object	The state of the s	ration a	ules	bý S	iearchi-	9	for	92	orbi	of
		clusters	tha	t ocu	toge	ether.		-		0	5-44	
_	The	resultan	} = \{\bar{\chi}\}	es may	y SO	Hisfy.	~					
1.1	$\rightarrow$	resultan Clustera	in T	he oule	911	receden	t ar	e s	strong	314		
		associat									,seq 42-	1
		(lysters		,							V	
		(histers							7			
					ν				•			

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	Q 6 B.		
	Step 1:		
	Items	Frequercy	2apport
	1	3	3/5 = 60%
	2	3	3/5 = 60%
	3	3	3/5 = 60.1
	4	2	215 = 40.1.
	J -	3	3/1 : 60%
	6	1	7/5 = 20%.
	7	1	715 = 201%
	8	1	1/5 = 20-1.
	9	1	1/5 = 20%-
	(0		1/5- = 20%
	Step 2:		
1	·		
1	Item	Frequency	Support.
1		, ,	
1	1,2	1	20%
-	1,3	2_	40%
	1,2,	2	40%
	1,5	1	20%.
	2,3	2	40%
	2,4	0	0
	2,5	3	66%
	3,4	1	20 %
	3, 5	2	40%
	4,5	0	0
1		15515	

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