DISCLAIMER

I have only answered 7 out of 9 questions because Lalitha ma'am didn't teach the concept of that sum. The answers provided may be incorrect. All users are advised to thoroughly review the solutions before using them. I will not be held responsible for any errors.

If you have any objections to the structure of the content, please feel free to share your answers with this group.

THANK YOU

unit-3 & 4 sums

It consider that the minimum and maximum values for the attribute "salary" are 12000 and 98000 respectively and the mapping stange of Jalary is [0.0, 1.0]. Find the transformation for the Jalary 73600 using min-max normalization.

minimum = 12000

maximum: 98000

range = [0.0, 1,0]

V = 73 600

max - onto X (new max (A) - new men (A) + new men.

N' = 73600 - 12000 × (1.0 - 0.0) + 0.0

J = 0 - 7163

Thus, the normalized dalong value is approximately artiss

2. consider the following set of data x= {15,27, b2,36,39,60,44,44, 22,983 Do preprocessing using smoothing by bin means and bin boundary to smooth the data, using a bin of depth 3 Evaluate it.

Data = \$ 15,27,62, 35, 39,50,44,44, 22, 98

depth = 3

sosted dala = 1 15, 22, 27, 35, 39, 44, 44, 50, 62, 983

bin 1: 15, 22, 23 bin 1: 15, 22, 23 bin 2: 35, 39, 44 bin 3: 44, 50, 62

Smoothing by bit means bins 21 21 21 21 bins 39 39 39 39 bins 52 52 52 bins 98

3. Suppose that the data for analysis include the attributed age.
The age values for the data tuples are 13.15.16,19,20,20,21,22,22,
26,25,25,25,30,33,33,35,35,35,35,36,40,45,45,52,70.

Lisuse smoothing by bin means to smooth the above data using with depth of 3. Illustrate town steps.

dota: 13,15, 16, 19,20, 20, 21, 22, 22, 25, 25, 25, 25, 30, 33, 35, 35, 35, 35, 35, 36, 36, 36, 40,45,46, 52,70.

bin depth = 3

timesthing by boundaries

bins: 15 15 27

bins: 35 35 44

bins: 44 44 62



bin 1: 13 , 15, 16

bina: 19,20,20

bin 3: 21, 22, 22

btn 4: 25, 25, 25

bin 5: 25,30,33

binb 33,35,35

bin 7: 35:35.36

DIA 8 . MO, 45, 46

bin9: 52,70

smoothing by median

bin 1: 15 15 15

bin 2 20 20 26

bin 31 22 22 22

DIN 4: 25 25 25

bin 5: 30 30 30

bin 6:35 35 35

bin 7: 35 35 35

1010 3 45 45 45

bin 9: 61 61

bin1' 15 15 15

bina 30 20 20

bin3: 27 22 22

bin41 25 24 25

bun 9: 29 29 29

bin 6: 34 54 54

100 to 100 to

608 44 44 W

Willes Bi Bi

smoothing by boundary

bint 13 16 16

bin2: (9 10 40

bins 21 22 22

DIAM 24 27 25

15 in 5 2x 32 22

610 B 35 35 35

12:17:35 35 36

6173 40 Mb 46

619-12 70

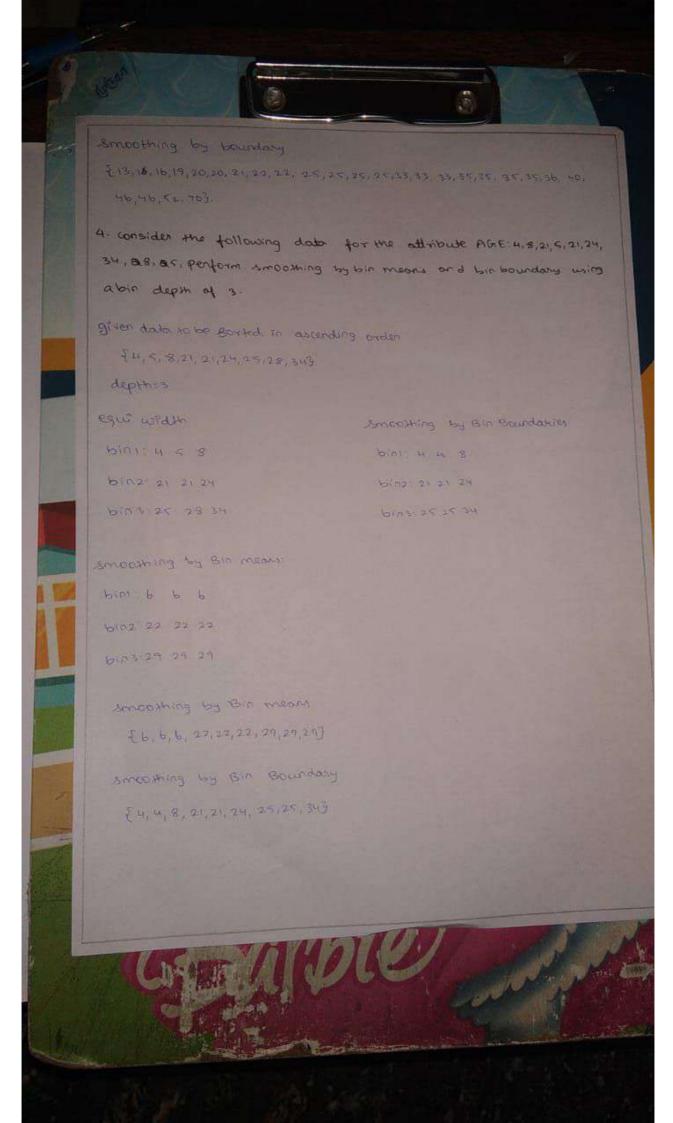
Smoothing by bin means

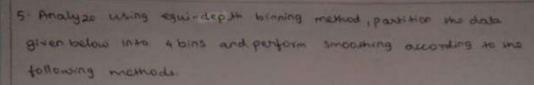
815,15,15,00,20,20,22,22,22,25,25,25,29,29,29,34,34,34,34,35,35,35,44,44,44,

amounting by median ..

{15,15,15,20,20,20,22,22,22,22,25,25,25,30,30,30,35,35,35,35,35,35,4545,45,61,613







citizenophing by bin means citizenophing by bin median chiralphinoching by bin boundaries

24,25,26,27,28,56,67,70,70,75,78,84,80,90,91,94,95,96,100,102,103,

depen - 4 bons

MIREOUTHER.

bin 2 4, 25, 26, 27, 28, 56 bin 2 67, 10, 10, 10, 14, 15, 16 bin 3 84, 90, 91, 94, 95, 96 bin 4 100, 102, 107, 109, 112

NATURE

bina: 75, 75, 31, 31, 31, 31, 31 bina: 75, 75, 75, 75, 75 bina: 75, 93, 93, 93, 93, 93 bina: 106, 106, 106, 106, 106, 106

mutatan

bins 93, 93, 91, 93, 93, 93 bins 93, 93, 91, 93, 93, 93

orundony.

6101 24, 24, 24, 24, 24, 24, 56 6102 67, 67, 67, 67, 87, 85, 89 6103 89, 89, 89, 96, 96, 96 6104 100, 100, 100, 112, 112, 112



6. Explain and apply aprions algorithm for discovering trajust

THANAID	Titems punchased
101	Milk, bread, eggs
102	mille, juice
103	surie, water
104	milk, bosed, eggs
105	como, sass
106	coffee
107	coffee, surce
10.8	wilk , bread, cookies, eggs
109	cookies, butter
110	HILK, Bread

use 0.3 for me minimum support value.

one for minimum support use either decimal value are or

Step 1: general trequest 1-2 remotes

	HATTH	5
	housed	44
	2895	4
	Jurce	3
×	butten	2
	coffee	3
×	cookees	2

frequent internset (support 23)

frequent internset (support 23)

Steps. Generale Chequent 2-2 housets

Transaction of the same	
MEIK, lancold	64.
m71K, 2894	9
* mille , suice	N. C.
* milk, coffee	0
basad, eggs	3
x bound, surce	0
x bread, coffee	0
* 5862 , Insee	0
* 6831° collec	3
x jutus, coffee	1 8

Foreguent 2-Florences (Aupport 23)

{ Hilk breads (mile, eggs), (bread, eggs)

Steps themenas progress 3-stemsels

Mrtk. based, \$534 3

Final Frequent Itemsets:

Emiss, bread, Eggs, juice, coffee)

2 - Frequent 2 - Dem sets.

EMPIR, was add, I HITK, Eggs, J. & Bread, Eggs)

3 prequent 3-14m sets.

(HITH, Great, Eggs)



Aprilaria and Ep growth respectively, compare the efficiency of the two mining processes.

TID ITEMS BOUGHT

TIDO {M,O,N, k, E, Y}

T200 {D,O,N, K, E, Y}

T300 {M,A, K, E}

T400 {M,U,C,K,Y}

T500 {C,O,O,K,T,E}

steps: find the distinct count

1 2	-	
×	A	3
×	C	1
×	D	1
	E	4
7	3	1
	K	5
	H	3
×	2	2
	0	L
*	U	1
1	Y	3
L		

