REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE

Université de mascara

Faculté des Sciences Exactes

Département d'Informatique



Correction DATAMINING

Master 1: SITW

Chargé du Module : Mr KHALLADI.R

Exercice 01 (8 points)

Itération 1: (4 points)

Classe	Axes	Centre 1	Centre 2	P1	p2	р3	p4	P5	P6	p7	p8
Totalité	Х	6.0	1.0	2.0	2.0	8.0	5.0	7.0	6.0	1.0	4.0
	Υ	4.0	2.0	10.0	5.0	4.0	8.0	5.0	4.0	2.0	9.0
	distanc	ce(pt,C1):		7.21	4.12	2.0	4.12	1.41	0.0	5.38	5.38
	distanc	ce(pt,C2):		8.06	3.16	7.28	7.21	6.7	5.38	0.0	7.61
	distanc	ce min		7.21		2.0	4.12	1.41	0.0		5.38
	distanc	ce min			3.16			\$ 13		0.0	3

Classe $1 = \{P1, p3, p4, P5, P6, p8\}$

Classe $2 = \{p2, p7\}$

Itération 2 : (4 points)

Classe	Axes	Centre 1	Centre 2	P1	p2	р3	p4	P5	P6	p7	p8
Totalité	Х	5.33	1.5	2.0	2.0	8.0	5.0	7.0	6.0	1.0	4.0
	Υ	6.66	3.5	10.0	5.0	4.0	8.0	5.0	4.0	2.0	9.0
	distanc	e(pt,C1):		4.71	3.72	3.77	1.37	2.35	2.74	6.36	2.68
	distanc	e(pt,C2):		6.51	1.58	6.51	5.7	5.7	4.52	1.58	6.04
	distanc	e min		4.71	31	3.77	1.37	2.35	2.74		2.68
	distanc	ce min			1.58	5-8			2	1.58	3.5-

Exercice 02 (12 points)

MAX (4 points)

Clas	ses																
1.0	1.0	2.0	4.0	4.0	5.0	6.0	7.0	7.0	10. 0	13. 0	14.	18. 0	20. 0	25. 0	27. 0	30. 0	30. 0
1.0,	1.0	2.0	4.0,	4.0	5.0	6.0	7.0,	7.0	10. 0	13. 0	14. 0	18. 0	20. 0	25. 0	27. 0	30.0 30.0	
1.0,	4.0, 4.0, 5.0 6.0, 7.0, 7.0								10. 0	13.0, 14.0 18. 20. 25. 27. 0 0 0 0				27. 0	30.0, 30.0		
1.0,	4.0, 4.0, 5.0, 6.0, 7.0, 7.0								10. 0	13.0, 14.0		18. 0	220000000000000000000000000000000000000		27. 0	30.0, 30.0	
1.0,	1.0, 2	2.0, 4	.0, 4.	0, 5.0), 6.0,	7.0,	7.0		10. 0	13.0 14.0	1.6	TO SELECT THE PARTY OF THE PART	18.0, 20.0		25.0, 27.0),)
1.0,	1.0,	2.0, 4	.0, 4.	0, 5.0), 6.0,	7.0,	7.0,	10.0	182-1	13.0, 14.0			18.0, 20.0		25.0, 27.0, 30.0, 30.0		
1.0, 1.0, 2.0, 4.0, 4.0, 5.0, 6.0, 7.0, 7.0, 10.0,									13.0,	The second secon			18.0, 20.0		25.0, 27.0, 30.0, 30.0		
1.0,	1.0,	2.0, 4	.0, 4.	0, 5.0), 6.0,	7.0,	7.0,	10.0,	13.0,	14.0	, 18.0), 20.	0	25.0 30.0), 27.0)	0, 30.	0,
1.0,	1.0,	2.0, 4	.0, 4.	0, 5.0	6.0	7.0,	7.0,	10.0,	13.0,	14.0	, 18.0	, 20.	0, 25	0, 27	.0, 30	0.0, 3	0.0

MIN (4 points)

Clas	ses																
1.0	1.0	2.0	4.0	4.0	5.0	6.0	7.0	7.0	10. 0	13. 0	14. 0	18. 0	20. 0	25. 0	27. 0	30. 0	30. 0
1.0,	1.0	2.0	4.0,	4.0	5.0	6.0	7.0,	7.0	10. 0	13. 0	14. 0	18. 0	20. 0	25. 0	27. 0	30.0 30.0	
1.0,	1.0, 2	2.0	4.0,	4.0, 5	5.0	6.0,	7.0, 7	7.0	10. 0	13.0 14.0		18. 0	20. 0	25. 0	27. 0	30.0 30.0	
1.0,	4.0, 4.0, 5.0				5.0	6.0,	7.0, 7	7.0	10. 0	13.0, 14.0		18.0, 20.0		25.0, 27.0		30.0, 30.0	
1.0,	1.0, 2	2.0	4.0,	4.0, 5	5.0, 6	.0, 7.	0, 7.0)	10. 0			18.0 20.0		25.1 27.1	}	30.0 30.0	
1.0,	1.0, 2	2.0	4.0,	4.0, 5	5.0, 6	.0, 7.0, 7.0			100000000000000000000000000000000000000	10.0, 13.0, 14.0		18.0, 20.0		25.0, 27.0		30.0 30.0	
1.0,	1.0, 2	2.0	4.0,	4.0,	5.0, 6	.0, 7.	0, 7.0)		10.0, 13.0, 14.0			,	25.0, 27.0, 30.0, 30.0			0,
1.0,	1.0, 2	2.0, 4	.0, 4.	0, 5.0	6.0	7.0,	7.0		10.0 14.0	, 13.0	0,	18.0 20.0		25.0 30.0), 27.()	0, 30.	0,
								10.0 20.0), 14.	0, 18	25.0, 27.0, 30.0, 30.0					
1.0,	1.0, 2	2.0, 4	.0, 4.	0, 5.0	, 6.0	7.0,	7.0,	10.0,	13.0,	14.0	, 18.0	, 20.	0 (25.0 30.0), 27.()	0, 30.	0,
1.0,	1.0, 2	2.0, 4	.0, 4.	0, 5.0	6.0	7.0,	7.0,	10.0,	13.0,	14.0	, 18.0	, 20.	0, 25	0, 27	.0, 30	0.0, 3	0.0

Barycentre (4 points)

1.0	1.0	2.0	4.0	4.0	5.0	6.0	7.0	7.0	10. 0	13. 0	14. 0	18. 0	20. 0	25. 0	27. 0	30. 0	30. 0	
1.0,	1.0	2.0	4.0,		5.0	6.0	7.0,	7.0	10. 0	13. 0	14. 0	18. 0	20. 0	25. 0	27. 0	30.0 30.0		
1.0,	1.0, 2	2.0	4.0,	4.0, 5	5.0	6.0,	7.0,	7.0	10. 0	13.0 14.0		18. 0	20. 0	25. 0	27. 0	30.0 30.0	2.11	
1.0,	1.0, 2	2.0	4.0, 4.0, 5.0 6.0, 7.0, 7.0						10. 0	13.0, 18.0, 14.0 20.0				25.0, 27.0		BEAUTION OF THE PARTY.	30.0, 30.0	
1.0,	1.0, 2	2.0	4.0, 4.0, 5.0, 6.0, 7.0, 7.0							13.0, 14.0 18.0, 20.0				25.0, 27.0		30.0, 30.0		
1.0,	1.0, 2	2.0	4.0,	4.0, 5	5.0, 6	.0, 7.	0, 7.0)	10.0 14.0	, 13.0	0,	18.0	-	25.0 27.0		30.0 30.0	280	
1.0,	1.0, 2	2.0	4.0,	4.0, 5	5.0, 6	.0, 7.	0, 7.0)	10.0 14.0	, 13.0	0,	18.0 20.0	78	25.0, 27.0, 30.0, 30.0				
1.0,	1.0, 2	2.0, 4	.0, 4.	0, 5.0	, 6.0,	7.0,	7.0		A STATE OF THE STA	10.0, 13.0, 18.0 14.0 20.0				25.0, 27.0, 30.0, 30.0			0,	
1.0,	1.0, 1.0, 2.0, 4.0, 4.0, 5.0, 6.0, 7.0, 7.0								10.0, 13.0, 14.0, 18.0, 20.0					25.0, 27.0, 30.0, 30.0				
1.0,	1.0, 2	2.0, 4	.0, 4.	0, 5.0	, 6.0,	7.0,	7.0,	10.0,	13.0,	14.0	, 18.0), 20.	0	25.0 30.0), 27.()	0, 30.	0,	
1.0,	1.0, 2	2.0, 4	.0, 4.	0, 5.0	6.0	7.0,	7.0,	10.0,	13.0,	14.0	, 18.0), 20.	0, 25	.0, 27	.0, 30	0.0, 3	0.0	