COMPUTER ENGINEERING DEPARTMENT

SUBJECT: DATA WAREHOUSING & MINING

COURSE: T.E. YEAR: 2020-2021 SEMESTER: VI

DEPT: COMPUTER ENGINEERING

SUBJECT CODE: CSC603 EXAMINATION DATE: 07/06/2021

DATA WAREHOUSING & MINING ANSWER SHEET

NAME : AMEY MAHENDRA THAKUR

SEAT NO. : 61021145

EXAM : SEMESTER VI

SUBJECT: DATA WAREHOUSING & MINING

DATE : 07-06-2021

DAY : MONDAY

STUDENT SIGNATURE:

Amey

SEAT NO.: 61021145

SUBJECT: DWM

EXAM: SEMESTER VI

PAGE NO .: \ / 7

02	
A	
Metadata:	
1) Metadates is simply defined as data belove data.	
2) The data that is used to represent other data is known as	
metadata	
3 For example the index of a book serves as a metadata	
For the contents in the book.	
1 In other words we can say that metadata is the	
Summarized data that leads 4's to detailed data	
5 In terms of data warehouse, we can define metadate as	
Follows:	
(A) Metadata is the road map to a data warehouse	
B) Metadata in a data warehouse defines the wasehouse	
Objects.	
(c) Metadota acts as a directory. This directory helps the	
decision support system to locate the contents of a	
gata marehouse:	
Roles of Metadata:	
1) It is used for query tools.	
1) It is used in extraction and cleansing tools.	
3 It is used in reporting tools.	
@ It is used in transforming took.	
(5) It plays an important role in loading functions	

NAME: AMEY THAKUR BRANCH: COMPUTER

SUBJECT: DWM

EXAM: SEMESTER VI

SEAT NO.: 61021145

PAGE NO.: 2/7

Da. Metadata of book stone like Amazon will contain. - Name of a pook Accessments about book Date of publication High level description of what is contained Publisher details How can you find the book Rook Availability

This information helps to a. Search a book 6. Acress the book c. Understand about book before you access or buy it.

SEAT NO.: 61021145

SUBJECT: DWM

EXAM: SEMESTER VI

PAGE NO.: 3/7

Q. 2
B
5011:
Dataset = { 6, 9, 12, 13, 15, 25, 50, 70, 72, 92, 204, 232}
Mo. of bins = b=2
. No. of elements = 12
or clames of
Frequency = n = 12 = 4
p 3
Dataset is already sorted
in the state of th
8:01:
bin 1 = { 6,9,12,12}
bin 2 = { 15,25,50,703
bin 3 = 5 72, 92, 204, 2329
Lets smooth the values by bin method
For Din 1,
Mean of bin1 = $6+9+12+13 = 10$
4
Lets replace all valves of bin- 1 by 10.
bin 1 = {10, 10, 10, 2

NAME: AMEY THAKUR

BRANCH: COMPUTER

SEAT NO.: 61021145

SUBJECT: DWM

EXAM: SEMESTER VI

PAGE NO.: 4/7

For bin 2
mean of bin 2 = 15+25+ 50+70
4
= 40
18 1 10
Replace by 40
bin 2 = {40, 40, 40, 40}
610) 2
Wangs in
For bin 3
mean of bin 3: 72+92+204+232
4
•
= 150
Replace all elements in bin 3 by 150
pin 3 = {120, 120, 120, 1203

SEAT NO.: 61021145

SUBJECT: DWM

EXAM: SEMESTER VI

PAGE NO.: 5/7

Q2
D
2017
2,3,6,8,9,12,15,18,22
Ausign
K1 = 2, 8, 15 - mean = 8.3
k2 = 3 9, 18 - med = 10
K3 = 6, 12 918 - Near : 13.3
Re-assign
K1 = 2,3 6,8,9 - mean = 5.6
Kz = mean = 0
k3 = 12, 15, 18, 22 - mean = 16.75
Reassign
K1 = 3, 6, 8, 9 - mean = 6.5
K2 = 2 - mean = 2
K3 = 12, 15, 18, 22 - mean = 16.75
Requign
K1 = 6,8,9 - mean = 6.5
K2 = 2,2 - mean = 2.5
K3 = 12, 15, 18, 22 - mean = 16.75
Reevign
$K_1 = 6, 8, 9$ - mean = 7.6
K2 = 2,3 - meg = 2.5
12 = 12, 15, 18, 22 - mean = 16,75
Last two groups are same
- Finally we got clustery
Cluster 1 = {6,8,93
(1451-ex 2 = { 2,3}
(luster 3 = { 12, 15, 18, 22}

NAME: AMEY THAKUR

BRANCH: COMPUTER

SEAT NO.: 61021145

SUBJECT: DWM

EXAM: SEMESTER VI

PAGE NO .: 6/7

Q2		
	5120 et = 5	
5011!		
Item ID	Support COUNT	
The	7	
Ta	6	
I ₃	6	
Ιζ	. 2_	
15	2_	
	Na!!	
	>(I2:7) [I1:2]	
T2		
I, - 16,		
T3 - (I):4) (I3:2) (I4:1) (I3:2)		
J4 -		
Is-1 2-12	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	3:2) (14:1)	
1		
7(Iz: 1)	

SEAT NO.: 61021145

SUBJECT: DWM

EXAM: SEMESTER VI

PAGE NO .: 7/7

Q.Z.
Spatial Chustoning Technique: CLARNS
CLARNS (A clustering algorithm based on
randomized search)
- Clustering is a descriptive task that seeks to
identify homogeneous groups of objects based on
the values of their attaibate.
= In spatial data sets, clustering permits
a generalization of the spatial component
a generalization of the spatial component like explicit location and extension of spatial
Objects which defined implicit relations of
spatial neighboushood.
,
- CLARNS improves on CHARA by using
multiple different samples
- For every step of search (LARNS draws
a sample neighbour
- 20 17 15 not confining a search to
localized great
- It use two additional parameters numberal
and manneighboir.
- Number of samples to be
taken.
- Manneighbour is the number of neighborn of
a node to which any specific node can
be conjoured.