LLASS: EMESTER 1V1310N

	Dota Warehousing and
	Data Mining
	Tutorial 2
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Ans la	A scatterplot shows the relationship between two
	quantitative variables measured for the same
	individuals. The values of one variable appear on
	the horitontal axis and other variable appears on
	Vertical axis. Each individual in the date appears
	as a point on graph and has
	A , 11 14 11 , 11 10 , 11 11 11 11
	A scatterplot helps in identifying the relation between
100 to 10	the used two attributes and het roughly helps us determine the so whother the two variables are
	related or not
Ans 2	Date transformation is required even after data proprocessing
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 (M) if MIV/MOL (M) MOL (M) (
	Properly formatted and validated data can improves date
•	Properly parmatted and Validaded data can be improved data
	grality and supports compatibility, integration and indensing Transformed data can be used for multiple purposes that are not yet intended but can be thought of in hear totuse
	are not yet intended but can be the all of purposes that
	John the mought of in hear totus
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	Date Page
Ans 3:	Date Smoothing is required as: it reduces noise and irregularities it allows human and computer analysis to be done in a better
•	it reduces noise and irregularities
•	it allows human and computer analysis to be done in a better
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-	it allows us to identify patterns
1	it allow us to predict trends.
	D.L. 1. H. VILLA III I II De a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
111	Data smoothing by binning can be done in one of the
	After designated each record to a should he value
180	After designated each voicord to a specific bit the value of the bin can be replaced ext by mean value of that
	particular binsold actual actual operation
	The Values can also be replaced by boundary values
17000	based on which boundary value is nearer
STATE OF	The values can be raplaced by median of the data is
	spewed in as a wholes. 38 OF S2132 S SA
Ans 4	
a	Egyal frequency binning:
	bin 1 = 5,10,11,13 of con source aldrewith and or order
	bin 2:- 15,35,50,55
	bín 3 :- 72, 92, 204, 215
	D) End width binning:
	Interval size = 215 - 5 = 70 Intervals :- [5,75], [75, 145]
	3
	bin 1:- 5, 10, 11, 13, 15, 35, 50, 55, 72 d mindred
	bin 2 × 92 bin 3 = 204, 20 5

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	Date Page		1,0
	The state of the s		
	1 miltonia da		
<u> </u>	Clustering:	Ans b.	
	bio 12 5,10,11,13,15, 35,000	a)	M
11-11-1	Clustering:- bin 1> 5,10,11,13,15,35,80 bin 2: 50,55,72,92		M
	bin 3:- 204,215		
	matera didada es el sucha fina	1,1.7	
11 1	showle three of as wall offer		,
Ans Sa	alling bin depth 3, Means Smoothing		
	big 1: 13, 15, 16 as an 14.66, 14.66, 14.66		
	bin 2: 16,19,20 18:33, 18:33	(d	
Section of	-bin 3:- 20,21,22 - 21,21,21	,	1
A cont	bin 4:- 22, 25, 25 11 24, 24, 24		Ů.
	bin 5: 25,25,30 26.66,26.66		1
	bin 6: 33,33,35 23.66,23.66,23.66		Щ_
	bin 7:- 35,35,35 35,35,35		
	bin 8:36, 40,45 40.33, 40.33, 40.33		-
	bin 9: 46,52,70 56,56,56	<i>c)</i>	
	Me		-
		1	
b/	Outliers can be detected using bout plot of the given data. Inter Quarkle range can be used to identify outliers as	(d)	h
	well.		10
	22,02.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.		10
C	Some other methods to smoother out data are:		
	Bounday, smoother out data are:	3.4	
10120	Bounday smoothing -> Exponential smoothing -> Random walk		
1	> Random walk		
	> Replacing by median		p.
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