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Ans to the g.no-1 (a)
(i) Entoy for students; C,D, F, G,B
should be should be cleared.
Entoy C has noisy and missing
data. (eg 3,39 and .0)-CGPAZIELT
data. (eg 3,39 and .0) - CGPA & TELT, and a NULL Entry. Entry D has notry data (eg 12.0
IELTS score
Entry F and Grare probable
Delicated entous.
- tour Bhasa NULL En Dig.
Cleaned entones with the
grident Col to 122
B 2.8 5.5 D YES
F 3.6 7.0 3 1 YES

Ans to the q no 1 (b)

Samples: -34, 21, 13, 46, 999

$$V' = \frac{V - \mu}{6}$$

Mean $\mu = \frac{1045}{5}$
 $= 209$

Standard deviation; $\sigma = \frac{\sqrt{(-34 - 209)^2 + (13$

 $V' = \frac{13 - 209}{395.85} = -0.495$

fon 46, $V = \frac{46 - 209}{395.85}$ = -0.412 fon, 999 V' = 999 - 209 385.85

introduceración (Aws to the q. no 2 (a)							
7	A	Ba	$= A - \overline{A}$	b=(B-B)	axe	ar	62	
	121.1		28.5667	-3'866	-110.45	816:05	1495	
	90.8	8.9	-1.533	0.133	-0.231	3:0043	0.0178	
	65°7	12.5	-26.833	3:733	-100.80	720026	13'937	
	A=92'53	B=8.766		-	-210'866	153988	289067	
							S .s	

The data set have storing negative Correlation.

Ansto the 9. no. 2 (6) Sorted data is:12,23,23,43,45,54,65,67, 90,100,234,1090 With intervals will be $w = \frac{b-a}{n}$ =1090-12 = 269.5 ≈ 270 Output: for Drange [12~270]:-[12,23,23,43,45,54,65,67,90,100,234] for nange [271~540]:- No data. for range [541~810]:- No data. for range [811~ 1080]: - No data for Range [1081~1090]:-[1090] Smoothing by Bin Boundaries Bin 23 [1090]

3(a)(i) From Sorted data we can see position of 49 is 5th =Pt; total sample is n=12 50; <u>5</u> x 100%= 42 So, 49 would fall in 42 percentile Ans: 42 Percentile Pagametic Non-P

Ans to the q. no-3 a (ii)

Numerocity Reduction: It is a data neduction technique which replaces the original data with alternative see small data; this is a brief form of data supresentation. Regularism, Log-Linear Models, Histograms, clustering, sampling are examples.

Parametric Reduction Non-Parametric Reduction

1. Uses fixed number 1. Uses flexible numbers
and test group means and test medians.

2. Applicable for variables, consider strong assumptions and less data.

3. Normal destocibution

4. Handles intervel

2. Used for variables fattributes, fewer assumptions, and more lata.

3. No assumed distributer

4. Handler Original data

Ams to the q. no-3 (b) & Observation town figure(Fig.) boxplot, we can sel-that @ Only Method-2 has and outlier.

@ Median score is different for different methods. @ Median for method 1 and 2 is closer together (25); But with different distribution (d) Method 3 has the widest grang of data, Method 2 has the most concentrated scorre data. (e) Method 1 and 4 has almost similar 18R but thouse most of the score in method 1 is lower than Method 4. (f) 50% of all data in method 4 has higher score than 75% of method 3. (9) Method 3 & 4 has similar