Uniet - II DATE: 13 10 23 Data Enployation: first in data analysis involve use of data visualization tool statut cal techniques. to uncon data set characteritics. and why in data emploration important? we can represent data with the help of data enployation is a perocess of reviewing and to better understand how it of statistics for data Analytics statistics is a branch of mathematics, it deals with the analysis, interpretation presentation of organisation of data. Types of statistics: Statistics in divided into two ie Statistics - provide information on istribution, central tendenry , median, mode, variance deviation, range

Wheather of central tendency to delice of delication and medical tendency mean, medical for ability to the central mean, medical for ability to the mean of the second out. In the many medical second out. In the many medical second out.	Pequilation & sample—  with group data ce, it (2 out of 10)  how data is spreadout  Nounal Uniform Skewed	pattern trand &  pattern trand &  pattern trand &  text  text	att. By
1 1 2 m	= 18 (Chen)	Mumber 7 8 9 10 11 12 13 frequency 3 8 12 15 14 (2) 19 12 13 14 (2) 19 12 13 14 (2) 19	vi) Control limit theorem.  conditional probability (went already accurred viii) Co-variance & co-valation  trypothesis testing Student test 7- lest and F  Type I even & Type 2 even

Mean = 17 - 4.25 Varianc = [Each value - (mean)] - (3-4.25)^2+(5-4.25)^2+(8-4.25)^2+(1-4/25)^2+(1	Walianse
torolation = $(\omega(X,y))$ Con $(x,y) = \sum (x_i-x_i)(y_i-y_i)$ N $\sum (x_i-x_i)(y_i-y_i)$	Solution = $\frac{\sum_{x=1}^{n} (x_{1}-u)^{2}}{m-1}$ (Sample)  Solution = $\frac{\sum_{x=1}^{n} (x_{1}-u)^{2}}{m-1}$ (Sample)  Solution = $\frac{\sum_{x=1}^{n} (x_{1}-u)^{2}}{m-1}$ (Population)  Cov(x,y) = $\frac{\sum_{x=1}^{n} (x_{1}-u)^{2}}{m-1}$ (Population)  Cov(x,y) = $\frac{\sum_{x=1}^{n} (x_{1}-u)^{2}}{m-1}$ (Population)

Mode = 245, 12.5	See Frey National Coraneware and Tombular frey 42.5 Man 385+ 25/4 266 7 29.53 S 24.33 S 24.35 Man 385+ 25/4 26.63 S 25/4 S 20.55 Man 385+ 25/4 S 20.55 N. 20
	21 22 1
$(20)^{-1}$ $(20)^{-1}$ $(20)^{-1}$ $(20)^{-1}$ $(20)^{-1}$	Variance = $[c_{acde} \ value] - [mean]^2$ $\frac{1}{3} (ab_{m})^2 + [123.21] + [2.69] + [0.6] + [123.21] + [2.69] + [0.6] + [123]$ $\frac{1}{3} (292.4) + [123.21] + [2.69] + [0.6] + [12] + [2.69] + [0.6] + [12] + [2.69] + [$

No correlation (It the value if Y in 6)  strong two correlation (lie b/w 0.8 to 1)	Constation records subtain by two way.  It describe two fulction (means strong a weep white)  Constation (all the means strong a weep white)  Constation values live blos - 1 to 1 engle  Constation values live blos - 1 to 1 engle  There are two type of constation of the formulation of the correlation of the correlati
$\frac{(\operatorname{ork}(x,y))}{(\operatorname{var}(x))} = \frac{(\operatorname{ov}(x,y))}{(\operatorname{var}(x))} = \frac{(\operatorname{ov}(x,y))}{(\operatorname{or}(x,y))} = \frac{(\operatorname{ov}(x,y))}{(\operatorname{or}(x,y))}$	Joseph the Constation (Lie blos. 5108)  low the Constation (Lie blos. 51065)  The Mark Constation (o. 8 to -1)  Kend Peavon Constation as flicht formula  1 19  1 19  2 8  1 19  2 8  1 19

P=X  P=X  Total no ref possible automes.	Probability is the chance that whelital event while occurs to occurance of event whelital probability based on prior knowledge or probability based on prior knowledge or probability based on combined probability.
Events-Those are there type of event.  Simple event (single characteristics)  Toint event (most than two characteristic)  part of event A. All events that are not part of event A.  Scomple space-collection of all possible events.  Sumple space-collection of all possible events.	P= 84

One of the went must occur. The set of events course the exitive sample space. Readonnly chose a day from year 2015.	Pof Jan & wed - 4  Pof Jan & not wed - 28!  Pof Jan & not wed - 28!  Pot Jan & not wed - 28!  Sumultaneously a day year  Ex. Randomly shoosing hom, 2015.  Event B = play in Jeb  Event A and B are mutically enduing event.	89 Jan Not Jan 48 52  Total 27 286 313  Popular 52  Popular 365  Popular 365
	P ( Aand B) =	
then  P(A und B) = D(A + p(B)).	Event A and B are collectively enhantive and other mutally enclusive.  Weekday cannot be Tan or pring.  Collectively enhantive.  Toint and allerginal probability  Me of outroms batisfying A and B.  Total ne of cuttonies  Addition Rule  P(A or B) = P(A) + P(B) - P(A and B) No douted no getting.	Event A = weekdey  Event B = weekdey  Event C = Jamesry  Event D = Spring  Event C, B, D are collectively embaustive but  not mutually enclusive.

chose	Of The weed coslet 70% have AC and 40% have GPS. 20% have Both.  What is he Pubability that can have a GR.  Given that it has AC.  O (4PS AC) - 20 - 0.2	P(B/A) - P(A and B) P(B/A) - P(B) P(B/A) - P(B) P(B/A) - P(B) P(B/A)
		Andependance  If the events are independent when then  P(A) in not affected by P(B)  P(A) and B = P(A) P(B)  P(A) and B are independent  P(A) and B = P(A) P(B)