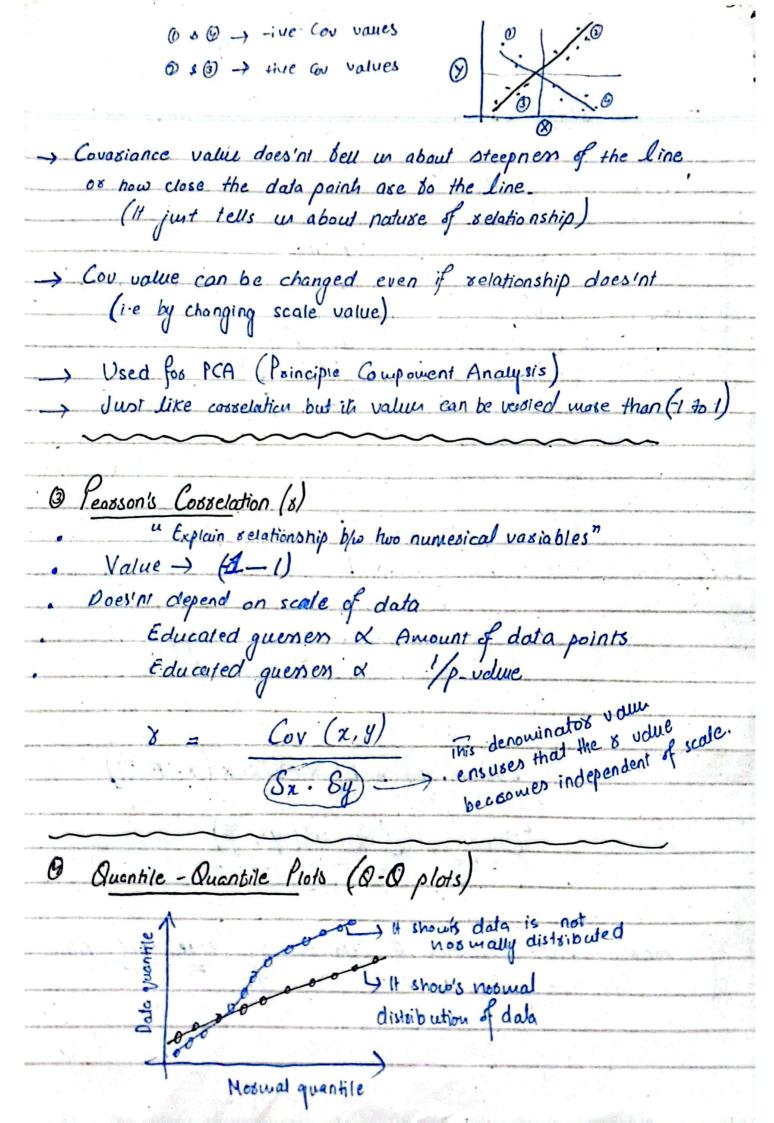
Advance Statistics O Sample us Population Population Sample Posameress Statistics items of interest) (a subset of population) Why prefer sample - easy to manage -) less time consuming - len costly H somple has to be sondom! Each member is equally likely to be chosen Cov(x,y) = E((x-E(x)x(Y-E(Y))) $Cov_{x,y} = \frac{\mathcal{E}(\pi_i - \bar{\pi})(y_i - \bar{y})}{N-1}$

(It measure's the direction of relationship) (tive, ive, no,



We can also compose two data sets:
aluantie
osig le
New dataset
quontile
O Confidence Interval (P-value)
Value -> 0.05 or 5% (universally accepted)
understanding through bootstrapping
-) lake 15 books and weigh them
-) Calculate mean
- Now take sondow sample of these 15 books which is
again 15 in number (double or tripple pick is ak!)
It is fone to estimate actual mean of book weight of
au available books in shop.
Now here p-value of 0.05 08 confidence interval of 95% means
14000 Here produce of 0.05 B. Confloring Interval of 98% wears
All the space values in which 95% of the
Au the space values in which 95% of the mean's are present "
mond are present
=) Impostant in hypothesis testing
- Joseph III Jefficord Ichter

Wi) Null hypothesis / Hypothesis testing	
(ii) Prest/chi-square best/Anova/ -> when to use?	, (scot)
One categorical data set One sample proportion test if it gives value Less than p-value of 0.05 then > reject new hypothesis and accept. alternative Hypothesis	
Two categorical data sel) Chi-square test	To read
One numerical data set , T-test	
Two numerical data set _ Bosselection test (8)	mq.
One numerical & One or two ANOVA categorical data set	in the
categorical data set (furthur subsets present in data)	
(fusthus subsets	Sarrie
present in dotal	
The second control of	
lf.	-
P < X Ho is rejected	educ
C	
P > M	-
120 Ho is accepted	min
	-
	meli
	7