```
Fosemulas:
    5-51NU
                                           Median = N
    Mean(\bar{x}) = \frac{2x^n}{n}
                                           Mean deviation = Str | zi-Median |
   Mean deviation = 2|x^{1}-\overline{x}|
    Mean (\bar{x}) = \frac{sxifi}{sC}
   Clean deviation. Stilxi-x
    Fox Continuous:
                                  :. di = xi-A
     Mean = A+ Stidi xh
   (Year deviation = Sto | xi-z|
                                                 Descrete data:
    Median = l+ h (N -c)
                                       raciance (-2) = 5 fr (xi-2)
   Mean deviation: Stolzi-Median
                                               Standard Deviation (s. D) = \sqrt{\sigma^2}
Variance (2) = \frac{2(xi-\bar{x})^{\alpha}}{2}
                                               Continuous Data:
   Standard deviation = \( \frac{2}{\sin (\frac{1}{2})^2}\) Variance (-2) = \frac{h^2}{N^2} \( N \text{ stidi} - (\frac{1}{2})^2 \)
  *Cumulative frequency = = x 100 and = x 100
    Karl pearlson's Skewness (Skp) = Mean-Mode

Coefficient of Carelation (x) = \frac{5xy}{5x^2} (or)

\frac{5xy}{5x^2} \frac{5xy}{5y^2} \frac{5xy}{5x^2} \frac{5xy}{5x^2}
  * Rank coxelation = 1- 502
    Storaight line is
         Sy = Na+ bsx
```

Exy= asx+bsx2

Regulation Coefficient y on x
$$byx = \frac{2dxdy - (2dx2dy)}{N}$$

$$\frac{8dx^2 - (2dx)^2}{N}$$

Regression Eqn y on X  

$$y-\bar{y}=b_{yx}(x-\bar{x})$$

Regression Equation 
$$x$$
 on  $y$ 

$$x - \overline{x} = bxy(y - \overline{y})$$

$$P(A \cap B) = P(A) + P(B) - P(A \cup B)$$
  $P(E) = \frac{n(e)}{n(s)}$ 

$$P(A \cap B) = P(A) + P(B) - P(A \cap B)$$
  
 $P(A \cup B) = P(A) + P(B) - P(A \cap B) - P(B \cap C) - P(A \cap C) + P(A \cap B \cap C)$   
 $P(A \cup B \cup C) = P(A) + P(B) + P(C) - P(A \cap B) - P(B \cap C) - P(A \cap C) + P(A \cap B \cap C)$ 

$$P\left(\frac{\mathcal{L}_{1}}{\mathcal{L}_{2}}\right) = P(\mathcal{L}_{1} \cap \mathcal{L}_{2}) \quad (On) \quad \frac{n(\mathcal{L}_{1} \cap \mathcal{L}_{2})}{n(\mathcal{L}_{2})}$$

$$P\left(\frac{\mathcal{L}_{1}}{\mathcal{L}_{2}}\right) = \frac{P(\mathcal{L}_{1} \cap \mathcal{L}_{2})}{P(\mathcal{L}_{2})} \quad (On) \quad \frac{n(\mathcal{L}_{1} \cap \mathcal{L}_{2})}{n(\mathcal{L}_{2})}$$

$$P\left(\frac{\pounds_{2}}{\pounds_{1}}\right) = P\left(\underbrace{\pounds_{1}} \cap \pounds_{2}\right) \quad (Ox) \quad \frac{n\left(\pounds_{1} \cap \pounds_{2}\right)}{n\left(\pounds_{1}\right)}$$

\* 
$$P(A|B) = P(A \cap B)$$
 \*  $P(E_1 \cap E_2) = P(E_1) P(E_2 \mid E_1)$ 

$$P\left(\frac{E_{K}}{A}\right) = \frac{P(E_{k})P(A|E_{k})}{P(E_{l})P(A|E_{l}) + P(E_{2})P(A|E_{2}) + --- + P(E_{n})P(A|E_{n})}$$

$$E(x+y) = E(x) + E(y)$$
 $E(xy) = E(xy) = E(xy)$ 

Variance ( $e^2$ ) (or)  $e^2$  ( $e^2$ ) (or)  $e^2$ 

Standard deviation (S.D) = 
$$\sqrt{E(x^2)-[E(x)]^2}$$

\* (Nean(
$$\mu$$
) = np

\* Variance ( $\chi$ ) = npq

\* Nean =  $\frac{567x^2}{547}$  (ox)

N( $q+P$ )<sup>n</sup>

\* P( $\chi = 0$ ) =  $n_c p^3 q^{n-1}$ 

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\* P( $\chi = 0$ ) =  $n_c p^3 q^{n-1}$ 

\* P( $\chi = 0$ ) =  $n_c$ 

UM7-111

UNING -V

t-distribution: 
$$t = \frac{\bar{x} - J^{\perp}}{s\sqrt{n-1}}$$
 $s^{2} = \frac{1}{n-1} \cdot s^{2} \cdot (x_{1} - \bar{x})^{2}$  (when  $sp$  not  $g^{2}$  ven)

Difference of mean:  $t = x \cdot y$  (ox)

 $x = \frac{sx}{n}$ 
 $x = \frac{sx}{n}$ 

E: = Row Table X column Table total

Grand (total) total

d.f = (no. 90008-1) (no. columns-1)