Statistics for DSI Types of dodg Descriptive societies: description & summisultum of dada Interestival solds: draw conclusions from duta

— use possibility of chame (mobility)

Dala - O actingnical @ Nemnun 1-> Disende Ly (ontinuous) Data collection negrines one of the tollowing scale of mensorement: nombal, ordinal, interval, or valio. @ Nominal: labels, namy eg: Name, Bound, Grender, Black Josep etc.

- sometimes hermorically caled Nominal

cost Nominal 2 ordinal scale Defresof Coef Nominal = proporties el nominal desta Num (Interval

Pedio eg: contour rutings (4) Ratio scale (3) Interval scente - Patro of 2 vals are maningal - all proporties of ordinal duty | eg: height, height - Interval bly values (doing i anits) core, mentes etc.
- Alweigs neumenic (no absolute sen) neumical variet etc.
- es: temporature
multiplied dovided multiplied devided

Describing adejonal data - troquency distribution) 2 reliding
Graphical display Graphical display chands of adequated duta - buy chant, Die chant - relative huquana Pie chut - Inopotions of redejon Bew chunt Partieto charts; antegonies in ten chart an sosted by theguency good der ordinal duch variables Question ? 5 subjects, total 500 Marks 125 + 50 + 90 \$ 175~ Physics 35%. 500 chimioty 25%. 125 = 63%50 Biology - 10% -Malty 18% 900 so Hindi P2% 60 4

Total Menjors 200 at bild + 125 = 200 Academy no of Players at 611 1 = 75 6 -2 0 atdrd - 75 mode: bimidal mullimoda! median: not available unless the duta can be put into robers 31.7 ×.80 total so sindenty Grandro A 25 20 b 325 26 D 201 6 14 18 20 93 40 Week 3 I mensioner of antout fundency Sample mem $\bar{x} = \frac{2j+x_2+--+x_h}{\eta}$ $N - \frac{x_1m_1k_2 x_2}{\eta}$ N - Population Size Population menn M = 2H xxt -- + 2m

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median 2 meric - derla (1) It no at ohs odd modun n+1 elim - darla Incorded (2) Heyen near mean of nent obs. Sample menn is sensitive to outliers Whereas Som whereas sample median is not New medium z old medium to * Multiplying a Constant new median = old median & C 2 Mode - most long - If no into occur, more than once, no made Dadding const now made = old made + C 2 mulliply med mode = old mode + C

to mensure of dispossion Range, Versiance, std dov. Remye = Max - Min Rumpe is sensitive to ordiors Population Variance 0= (2,-M)+(22-M)-1-+(24-M) Simple Vanishle $S^2 = (x_1 - \overline{z})^2 + (x_2 - \overline{z})^2 + (x_1 - \overline{z})^2$ 40 adding a amolant new variance = oll vaniance (2) multiplying a constant new Vaniance = & x old vaniance Standard devication $S = \sqrt{(x-\bar{x},)+-+(x_n-\bar{x})}$ $Pup Std = \sqrt{(x-x_j)^2+x_{n-2}}$ Sample std = Vsample Vallance

O adding wishout: now std = obl skd

@ moutify constant: new std = c x oll std

Peruntil, Quentilo 2 Intergrante range

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Amonge the deda in the order 2. If np is not an integed smaller int > np portun 3 If np is an int. V (np), (np+1) to the 100p.

(9) outliers < (91-15742) and > (8-115142)

Sm= 160

· Sim +6= 166

sample \$1 = 10 mem= 16

 $vanu = 100 = (a_1 - 51)^{2} + -$

(2, -x /2 1 -- = (100

, = 900 - (0-10)2

+ (610)= 900+ le = 916

(24.8)2+ (91) + (-62)2+ (28)2+ (21)2 97,69,62,71,47 min 60 (8.2 FE9.44 + 17.61 + 38.49 + 7 57 + 49914 E 40 38 41 41 96 94 101 3,8: 40 41 41 96 99 10.1 n=7 10th = .1 x 7 = 07 = 1 = 38 15 42 = 750 37 = 9 a B g E 19R = 93-91 36 3/3 31 25 7 7 106 92 23 25 26 39 77 92 106 225 x 7= 1.75=2 91-25 (3 = TX7 S.75 = 6 (3 92 ocalling 15194 ahome orholo 9,292 6,-1.5 lat 9341.51PR

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| $\sqrt{\frac{2}{5}(2-5)^2}$ $\sqrt{\frac{2}{5}(4-7)^2}$ |
| Coy(x, y) |
| 5.5/c/ >c × 5.8/1 y |
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| Constant x |

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25723.8 = 276.33 x 167.60

V 76358.29 X V 28090

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The MITTER well 2 I'mez WI 1+1 (N) 1-11 AM1 1+1+111+1 JAK 1 SL EXG 1 Ideal ne whatty 150 +x+y+ 50-1300 = 700+2+7 300 = 03 250 = 0.15 Ctxtook C HILTONE 3001000 - 2001211 251 - 0.25 (200+219) × 1(x 200)=300 1000 = 700/2/7 .8x 5 300 - 300. 21) = 300 y=(3=38) 7= 300-175 Jeof 200 x = 0,194 (1000)