\* Problem On correlation Coefficient \*.

Prob - find the value of the correlation coefficient from the following table.

from the fol	lowing you	Tohnose level.	Y.
Box	Age X	1 Chicose (01)	
Subject	4	99	
	43.	65	
2	25	79	
2	25	75	
3	42	87	
4	57	81	
5	59		
6			1 +
		in use a given	dula

step 1: Make a chart. Use a given data three more volumns as xy , x2, y2 Solution : and add

	Marco P	1110 -			
and add	three			2	y <sup>2</sup>
	Age X	Glucose,	XY	X 1849	9801
Subject	43	99	1365	141	4225
1	21	65	1	625	6241
2	25	79	119 +2	1764	5625
\ 3	42	75	13130	3249	7569
\ A		87	4959		6561
5	57		4779	3481	
	59	81	1,, 1		1 1
\ 6	\	1	20485	11409	40022
5	247	486	20-10-		

Putting all values in formule.

$$= \frac{n(2xy) - (2x)(2y)}{2(2x)^2 \sqrt{n}}$$

 $h = \frac{n(2xy) - (2x)(2y)}{\sqrt{[n2x^2 - (2x)^2][n2y^2 - (2y)^2]}}$ 

put all the values in the formula.

$$2 = \frac{2868}{5413 \cdot 27}$$

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Hence the correlation conficient is = 0.5298