CHI - PSquare Test: - Test of Endependance (Goodness of fot)

Ho- There 15 no relationship bet? 2 variables Fixed (salary paid & service)

Hi - There is a rel bet 2 variables.

These Two variable are categorial.

Right Tall Test

Row Tot x col- Tot

6

observed value

3

				4	
1 0 1110 1		medium	High	Total	
service	low			27	
Excellent	9	10	<u></u>	26	
	11	1 9 1	131	/ 51	
Good	12	8	3	23	
		0.7	41	100	
Total	32	27			_

(obs-exep)

Expected yelver:

2	100	26×27 = 7.02	20×41 =10-6	
-	16.32	13.77	20.91	
1	7.34	6.21	9.93	1

8.92 -	0-1·02)2 7·02 1·2(5	(1- 1a.66) 10.66 = 1.25
(11-14.32) ² 16.32 = 1.73	1.65	4.86
2.9125	.52	4.38

given vodue -

given value = 9.488

calculated = 18.658

111111 | So reject the Mull

Degree of Fedm = $(N-1) \times (k-1)$ $= 2 \times 2$

Degree of freedom: - How many freedom I have

· Market - that the note with a di

tor lant tageral

marm dof is = N-1

⇑.

Non Non variables

Degree A freelon:How many variables you can control

Prob (Produe) -> ots.

La i's less than .05 Alux Reject the NWI

lesser the Pralue J. More significant is the relationship.