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Prequency distribution :-

A frequency distribution is a set of mutually exclusive classes on categories together with the frequency of occurance of items, values on observations in each class on category in a given set of Later, presented usually in a tabular form.

Tools on categories. and somethy constant class con the course south town of order order and one categories. and somethy the class that class can deal order class of the character of the class of the

Example gravens clear 2001 most

summarizing & presenting Data paye (2 workers of Frequency Distribution: Suppose a survey was conducted among 20 Beximeo pharamacutical company (BPC) of worokers; on background characteristicks Health status Raw data smokings todus Bad Age Worken Wage **Smoker** Bad 27 02 Non-smoker Average 202. 67 smoken 2 Good 0)4 92 smo Kep 34 Good 68 Non-smoken Average 28 87 smoker (19) 5 Average 71 Smoker 26 50 AV Eroage Non-smoker (37) 76 ·Bash smoker B 92 Bad 86 Non-Smoken の Avenage 26 97 10 Non-smoker Average 24 51 smoken 11 29 Average 74 Smoker 12 34 68 Bad **SMOKER** 13 25 65 Bord Non-smoker 14 35 92 Good 15 Non-Smoken 0 A のら Bad IG smoker 27 77 Bad Non-smoker 17 **Q8** 87 18 Bad Non-smokép 08 86

22

90

wage - yet

19

20

smoken

Good

Frequency distribution for categorical data!
Table 1; smoking status of BPC workers

	smoking status smokera Non-smoken	Number of workers
	Total	20
_	0 1 11 111	

Table -2! Health status of BPC worokers

Health Status	Number of workers
Good	4
Average	
Good Averoge Bad	6)
Total 1	20
0 11 11 1	00 -11 1

ble-3 Health and smoking status together

smoking Health Status	Good	Average	Bad	total
smoken	3 -	5	3	[]
Non-Smoken	1	2	G	9
total	4	7 /	9	20

pose (

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Frequency Diotocion for yours it bodge. Frequency Distribution fore numerical datas-Before constructing frequency distribution fore numerical data we have to know some definitions.

Clars: A clars is an interval containing observation, each observation being clarified into one and only one class.

Grain observation of the class of 20052 empo

Priequency: Priequencies are the number of observations ore values falling into each class. Alaren of seasing story al appenration and

Clars width: The diffusionce between two clars limits in the class width.

5-10 5 Gra Lower Clar 11-16 5 Gra ama Lower limit 10 720 ama upper limit

5 For 10 2m work clar

10 ga ama upper limit

class. with 2m 10-5=5.

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Now let us construct frequency distribution fort numorical dates :-Consider the data you will given. We have 20 data entrues for the BPC workers. The variables wage and age are of numerical quantitative type. Fore at first we will construct frequency distribution for age: we have to determine the number of classes first. There is a rule to find the number of classes which is known as 12 to the k rule. If 2x > N fore the first time then the number of classes should be K where N is the total number of observations. For the current situation of BPC worker Late N=20. At final we have to complet k=1-then_ 2'=2 <20 SO K=1 should not be taken. Then consider K=2, 2=4/20

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be the value of K. $2^5 = 32$ which is greater than 20 for the first time. So K = 5 = number of class.

Then we have to find class width.

Class width = $\frac{Naninum}{Number of}$ class $= \frac{37-19}{5} = 3.6 \approx 4$

Frequency distribution for age;-

1.1	`			, (clans width
1	class limit	Talm	frequency	9 arma 4,
+	19-22	1111	4	Tupper limit
	23-26	JUT 1	6	- Lower limit
1	27 -30	Leti 1	6	
	31-34	11	2	
	25-28	11	.2	* 12.73
	0,5 00			
			1 10 12	

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Construct frequency Distribution for wage:

Here, n = 20So number class = 5

Class width = Maximum - minimum $\frac{97-50}{5} = 9.4 \times 10$

clars limit	Tally	frequency
50-59	11	2
60-69	1111	4
70-79	[11]	4
80-89	1111	4
90-99	mi	6

Hat is will geting tenner could come about

Table 2.1. Paw data on background characteristics of workers

Table 2.1: Raw data on background character Days absent Family size Education									
		Labi	e 2.1.		T D	eligion	Days absent	Small	Higher
Wo	orker	Wag	ge	Age			26		None
	1		2	25		uslim	16	Large	Primary
<u> </u>	2	1,66		29		uslim	14	Small	
<u> </u>	3	93		32		indu	18	Medium	Primary
-	4	-69		39	_	luslim	27	Large	Higher
-	5	98		43	_	hristian	29	Medium	None
-	6		6	40		luslim	23	Large	None
-	7		0.	46		luslim	33	Small	Higher
-	8		51	45		Auslim	17	Large	Primary
-	9			51		hristian	24	Medium	None
-	10	1	<u>同</u> 万	37		Muslim	17	Large	Primary
-	11		51.	38		Muslim	18	Small	Primary
	12	_	74	42		Muslim		Large	Higher
-	13		68	46		Muslim	21	Medium	Higher
-	14			28		Muslim	11	Medium	Primary
\vdash	15	17	65 89	30		Muslim	10	Medium	Higher
H	16	+	1881	32		Muslim	12	Large	None
\vdash	17		77>	36	_	Muslim	13	Large	Primary
-	18	1	187	37		Muslim	18	Medium	Primary
+	19		187 185	41		Christian	16	Medium	Higher
٢	20	0	284	35		Hindu	22	Medium	Primary
T	21	(382	43	_	Muslim	14	Small	Higher
Ī	22		> 83	44	-	Muslim	15	Small	Primary
Ţ	23	_	82	42	_	Hindu	8	Medium	Higher
- 1	24		081	42	_	Hindu Muslim	9	Medium	Primary
	25		079	44	_	Muslim	17	Small	Primary
	26	-+	0 80	46		Muslim	15	Large	None ,
	27		<.65 74●		_	Muslim	14	Small	None
	29		B 9	3	_	Muslim	10	Medium	Higher
	30		54		_	Muslim	11 -	Large	Primary
	31		56	_	2	Muslim	10	Medium	None
	32		73•	4	5	Muslim	13	Large	Higher
	33		75∙			Muslim	12	Medium	Primary
	34	_	74 • 72 •			Muslim	17	Large	Higher
						Christian	16	Medium	Primary
		36 7			5 3	Muslim	20	Large	Primary None
		37 /20 38 (63)			6	Hindu Muslim	19	Medium	Higher
170		39			8	Muslim	10	Large Medium	Higher
1	4	40		:	2	Muslim	12	Medium	Higher
11/18		41)	54	Hindu	16	Medium	None
18		42 67			31	Muslim	18	Large	Primary
1		43			35	Hindu	21	Large	Higher
1		44			46	Muslim	19	Medium	Higher
1		45		5	44 33	Hindu	19	Medium	Primary
		46		2.	36	Muslim Muslim	15	Medium	Higher
		18	73		38	Muslim	9	Small	Higher
		19	71		32	Hindu	13	Small	Primary Higher
		50)	50	Christian	18	Medium Medium	None
				,			,,,	Mediani	110110