INFO5082: Seminar of Research and Research Methodology

Research Question:

Can flexible work arrangements improve productivity and job satisfaction?

Flexible working helps employers meet the changing needs of customers and staff. Employers have a 'duty of care' to protect employees from risks to their health and safety, which might include stress caused by long hours or the struggle to balance work and home life. It's important for managers to consider what flexible adjustments might be made to support staff who need to combine work with caring responsibilities and improve productivity.

Hypothesis: Employees who have flexible working hours will report greater job satisfaction than employees who work fixed hours.

Null Hypothesis: There is no relationship between working hour flexibility and job satisfaction.

Recent Studies:

- 1. In Sweden, for example, the government has tested workers to work six-hour days. Although the employees reported an improved quality of life, with less stress and more time to spend with their families, it was also an expensive experiment for the local council, who had to hire extra workers to make up for the shortfall in hours.
- 2. Iceland conducted a similar trial, allowing some Reykjavik city workers to reduce their working week by four or five hours. In that experiment, productivity continued at the same level, meaning costs remained the same as well. The employees also had greater work satisfaction and fewer days off sick.

Dataset:

The dataset contains annotations that are related to job satisfaction and employee performance.

4	Α	В	С	D	Е	F	G	Н	1	J	K	L	М
1	Year	Survey Ques	Survey Question Text	Don't Knov	Strongly A	Agree	Neutral	Disagree	Strongly D	Agree or S	Disagree or S	trongly Dis	agree
2	2018	Q1-4	I have received fair consider	9	21.9	25.7	22.1	11.3	10.1	47.6	21.4		
3	2018	Q1-3	I have been mentored at wo	3	21	27.1	21.9	16.8	10.3	48.1	27.1		
4	2018	Q1-6	The City's programs related	9	13.2	23.4	35.1	13.4	5.9	36.6	19.3		
5	2018	Q2-1	The following adequately su	20.3	11.7	22.9	34.1	7.9	3.2	34.6	11.1		
6	2018	Q2-2	The following adequately su	20.4	11.5	21.8	35	7.9	3.5	33.3	11.4		
7	2018	Q4-5	I believe my opinions matter	0.7	29.2	24.2	17.7	15.7	12.4	53.4	28.1		
8	2018	Q4-18	Conflict in my work area is re	6.8	17.3	27.7	21.7	12.8	13.7	45	26.5		
9	2018	Q4-20	I believe exceptional job per	3.3	19.6	30.3	16.2	15.7	14.9	49.9	30.6		
10	2018	Q5-2	The amount that I pay for he	10.5	18.9	35.5	18.3	12.3	4.6	54.4	16.9		
11	2018	Q5-5	I think the amount I am paid	3.8	19.2	38	14.4	15.5	9	57.2	24.5		
12	2018	Q6-4	Communication between my	11.5	11.9	32	22.7	15.3	6.7	43.9	22		
13	2018	Q6-10	Employees in my departmen	7.1	17.1	34.2	20.2	12.1	9.3	51.3	21.4		
14	2016	Q4	I have received fair consider	12.1	21	25.2	20.9	9.8	11.1	46.2	20.8		
15	2016	Q3	I have been mentored at wo	7.7	21.3	26.3	21.8	14.8	8.2	47.6	22.9		
16	2016	Q6	The City's programs related	13.1	14.2	24.6	32.8	10.9	4.5	38.7	15.4		
17	2016	Q9a	The following adequately su	20.7	10.6	24.9	32.2	7.6	4.1	35.5	11.6		
18	2016	Q9b	The following adequately su	24.3	9.9	19.2	36.7	6	3.9	29.1	9.9		
19	2016	Q19	I believe my opinions seem t	5.4	26.3	26.7	15.9	14	11.6	53	25.7		
20	2016	Q32	Conflict in my work area is re	12.6	16.7	28.6	17.8	12.1	12.2	45.4	24.2		
21	2016	Q34	I believe exceptional job per	9.9	17.7	26.4	16.6	16.7	12.7	44.1	29.5		
22	2016	Q42	The amount that I pay for he	14.6	14.5	33.4	17.5	14.8	5.2	47.9	20		
23	2016	Q45	I think the amount I am paid	9.4	12.2	33.3	15.1	19.7	10.2	45.5	29.9		
24	2016	Q52	Communication between my	12.4	10.5	29.9	25.3	14.7	7.1	40.4	21.8		

As the number of observations in this particular dataset is very low. I am planning to create a survey through annotations.

Any suggestions regarding dataset is appreciated.

References:

- 1. https://theundercoverrecruiter.com/flex-productivity-engagement/
- 2. https://www.kaggle.com/rhuebner/human-resources-data-set#production_staff.csv