Date management 101

How to prepare your survey data for statistical analysis

ICME Yuki Izumi, D2

What we image (or hope)

Interprofessional collaborative practice among prosthetists and orthotists

This is the site for a survey of prosthetists and orthotists regarding interprofesional collaborative practice.

If you agree to the items on the survey request form, please enter your e-mail address below and proceed to the survey.

*Email addresses will be collected to check for duplicate responses and to distribute a summary of the results (upon request), and will be deleted as soon as possible after use for the intended purpose.

 \odot

*Participation in this survey is voluntary

yizumidpm@gmail.com アカウントを切り替える

* 必須の質問です

メールアドレス*

メールアドレス

If you have read the survey request and are willing to complete the survey, please or click below to proceed to the survey.

I agree and proceed to the survey.

Xへ
 1/5ページ フォームをクリア

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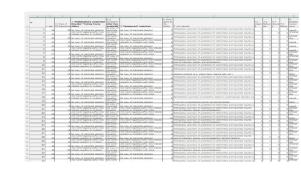
Google Form



Statistical Analysis

What actually it is







Google Form

Excel

Statistical Analysis

Steps to prepare your survey data for statistical analysis

- **1. Review Data Structure**
- **2.** Handle missing values
- **3.** Correct errors
- 4. Deal with outliers
- 5. Format Variables
- 6. Rename Variables
- 7. Organize Data
- 8. Remove Unnecessary Information

Data cleaning

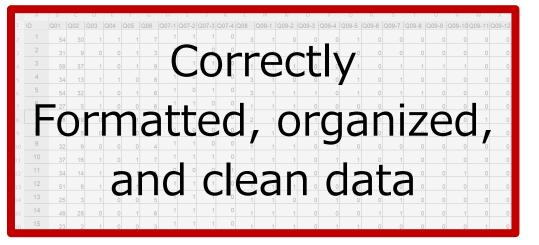
Y. Izumi, 4/3/2024

9. Create a data dictionary

Today's topic

Your goals

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Γ	33	55	30	be (usu. of inanimate objects)	negating	be (usu, of inanimate objects)			



	Item number	Item	type	
		ID	ordinal	number
	Q01	age	numerical	number
	Q02	Years of experience as a prosthetist/Orthotists	numerical	number
		Have you ever attended a training course on "Multidisciplinary Education"?	categorical	1: Yes 0:No
	Q04	Do you have any experienceworking as a "non-prosthetist"	categorical	1: Yes 0:No
	Q05	Do you harmov experience in management positions?	categorical	1: Yes 0:No
	Q06		meriral	number
	Q07-1	Do you have experience in management positions? Time sper per view and the time sper per view and the position of the spectrum test of	cat garical	1: Yes 0:No
	Q07-2	Are you in the wind of the second habilitation and the second s	cate orical	1: Yes 0:No
	Q07-3	Are you involved with prostheticsthe lower extremity woundarea?	categorical	1: Yes 0:No
	Q07-4	involved inotherareas of prosthetics?	categorical	1: Yes 0:No
	Q08	Of the areas you chose inQ07, please select one area that you are most involved	categorical	1 Orthopedics, 2 Rehabi
	Q09-1	Are you involved with orthopedic surgeons in your daily clinical practice?	categorical	1: Yes 0:No
		Are you involved withphysiatrist?	categorical	1: Yes 0:No
	Q09-3	Are you involved withCardiovascularSurgeon/Vascular Surgeon?	categorical	1: Yes 0:No
	Q09-4	Are you involved withcerebrovascular surgeon	categorical	1: Yes 0:No
		Are you involved withplastic surgeon	categorical	1: Yes 0:No
19	Q09-6	Are you involved withsurgeon	categorical	1: Yes 0:No

	А	В	С	D	E	F	G	Н	Ι	J	К	L	М	Ν	0	Р	Q	R	S	Т	U	V	W	Х
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4	3	59	37	1	0	1	9	1	1	1	0	1	1	1	0	0	1	0	1	1	1	1	0	0
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6	5	54	32	1	0	1	6	1	0	1	0	3	1	1	1	0	1	0	1	1	0	0	0	0
7	6	27	5	1	0	0	6	1	1	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0
8	7	48	19	0	1	1	4	1	1	1	0	2	1	1	1	1	1	1	0	0	1	0	1	0
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10	9	32	9	0	0	0	4	1	1	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0
11	10	37	16	1	0	1	7	1	1	1	0	1	1	1	0	1	1	0	1	0	1	0	0	0
12	11	34	14	1	0	1	1	0	0	0	1	4	1	1	0	0	0	0	0	0	0	1	0	0
13	12	51	8	1	1	1	8	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0
14	13	25	3	1	0	0	5	1	1	1	0	1	1	0	0	1	0	0	1	0	0	0	0	0
15	14	49	28	0	0	1	6	1	1	1	0	1	1	1	0	0	0	1	1	0	0	1	0	0
16	15	23	2	1	0	0	3	1	1	1	0	1	1	1	0	1	1	0	0	0	0	0	1	0

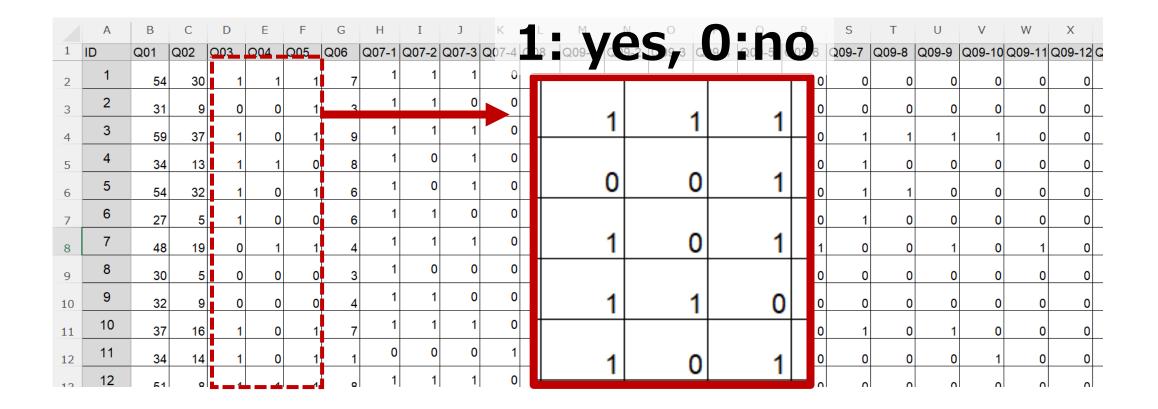
1. All variables are represented with numbers.

- 2. Information for a single subject is contained within a single row.
- 3. Each column contains only one characteristic.
- 4. Numeric values used for analysis should be precomputed.
- 5. Delete all the unnecessary columns unrelated to the analysis.
- 6. All questions are displayed with an Item Number.
- 7. Use "general format" for all cells.

1. All variables are represented with numbers.

- 2. One subject, one row.
- 3. One characteristic, one column.
- 4. Numeric values used for analysis should be precomputed.
- 5. Delete all the unnecessary columns unrelated to the analysis.
- 6. All questions are displayed with an Item Number.
- 7. Use "general format" for all cells.

1. Label all the categorical values with numbers



Make sure to make a note for each label!

1. Label all the categorical values with numbers

Find and Replace	2 ×
Fin <u>d</u> Re <u>p</u> lace	
Find what: Yes	-
Replace with: 1	
	Op <u>t</u> ions >>
Replace <u>All</u> <u>Replace</u>	e F <u>i</u> nd All <u>F</u> ind Next Close

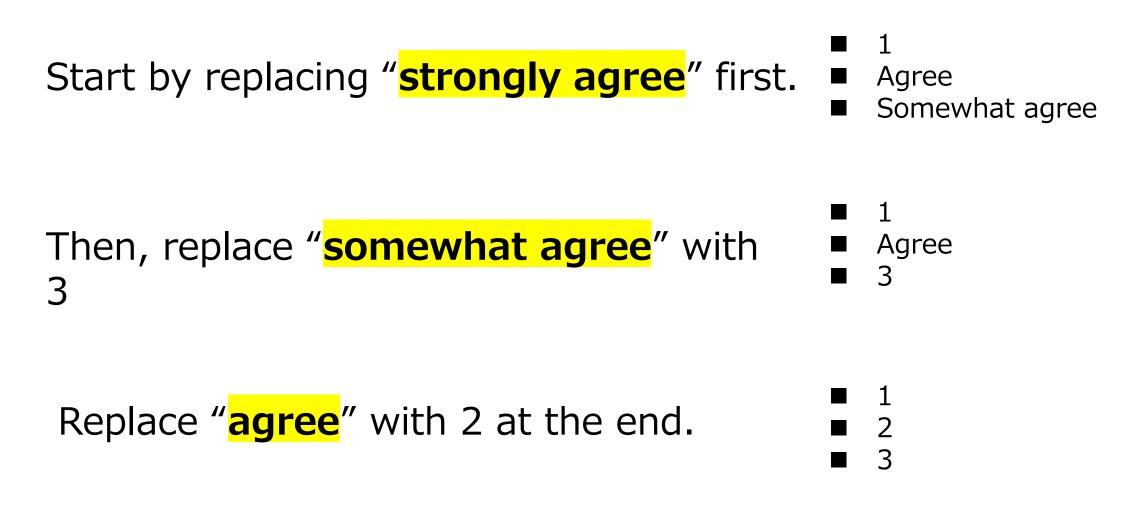
The order of replacement is tricky!

- Strongly agree
- Agree
- Somewhat agree

If you replace all "agree" with 2 first, you will get...

Strongly 2
2
Somewhat 2

The order of replacement is tricky!



1.All variables are represented with numbers.

2. One subject, one row.

3.One characteristic, one column.

4. Numeric values used for analysis should be precomputed.

5. Delete all the unnecessary columns unrelated to the analysis.

6.All questions are displayed with an Item Number.

7.Use "general format" for all cells.

2. one subject, one row

	А	В	С	D	Е	F	G	Н	Ι	J	К	L	М	Ν	Ο	Р	Q	R	S	Т	U	V	W	Х
1	ID	Q01	Q02	Q03	Q04	Q05	Q06	Q07-1	Q07-2	Q07-3	Q07-4	Q08	Q09-1	Q09-2	Q09-3	Q09-4	Q09-5	Q09-6	Q09-7	Q09-8	Q09-9	Q09-10	Q09-11	Q09-12 G
2	1	54	30	1	1	1	7	1	1	1	0	3	1	0	0	0	1	0	0	0	0	0	0	0
3	2	31	9	0	0 0	1	3	1	1	0	0	2	1	1	C	0	0	0	0	0	0	0	0	o
4	3	59	37	1	0	1	9	1	1	1	0	1	1	1	C	o	1	0	1	1	1	1	0	0
5	4	34	13	1	1	0	8	1	0	1	0	3	1	0	0	0	1	0	1	0	0	0	0	0
6	5	54	32	1	0	1	6	1	0	1	0	3	1	1	1	0	1	0	1	1	0	0	0	0
7	6	27	5	1	0	0	6	1	1	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0
8	7	48	19	0	1	1	4	1	1	1	0	2	1	1	1	1	1	1	0	0	1	0	1	0
9	8	30	5	0	0	0	3	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10	9	32	9	0	0	0	4	1	1	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0
11	10	37	16	1	0	1	7	1	1	1	0	1	1	1	0	1	1	0	1	0	1	0	0	0
12	11	34	14	1	0	1	1	0	0	0	1	4	1	1	0	0	0	0	0	0	0	1	0	0
10	12	51	_	1	1	1	<u>ہ</u>	1	1	1	0	1	1	1			0						0	0

2. One subject, one row

Mr. A: 1st response

Mr. B: 1st response

Mr. C: 1st response

Mr. D: 1st response

Mr. A: 2nd response

Mr. B: 2nd response

Mr. C: 2nd response

Mr. D: 2nd response

Mr. A: 3rd response

Mr. B: 3rd response

Mr. C: 3rd response

Mr. D: 3rd response

Mr. A: 1 st response	Mr. A: 2 nd response	Mr. A: 3 rd response
Mr. B: 1 st response	Mr. B: 2 nd response	Mr. B: 3 rd response
Mr. C: 1 st response	Mr. C: 2 nd response	Mr. C: 3 rd response
Mr. D: 1 st response	Mr. D: 2 nd response	Mr. D: 3 rd response

- 1.All variables are represented with numbers.
- 2.One subject, one row.

3. One characteristic, one column.

- 4. Numeric values used for analysis should be precomputed.
- 5. Delete all the unnecessary columns unrelated to the analysis.
- 6.All questions are displayed with an Item Number.
- 7.Use "general format" for all cells.

3. One characteristic, one column

	А	В	С	D	Е	F	G	Н	Ι	J	К	L	М	Ν	Ο	Р	Q	R	S	Т	U	V	W	X
1	ID	Q01	Q02	Q03	Q04	Q05	Q06	Q07-1	Q07-2	Q07-3	Q07-4	Q08	Q09-1	Q09-2	Q09-3	Q09-4	Q09-5	Q09-6	Q09-7	Q09-8	Q09-9	Q09-10	Q09-11	Q09-12 G
2	1	54	30	1	1	1	7	1	1	1	0	3	1	0	0	0	1	0	0	0	0	0	0	0
3	2	31	9	C	0	1	3	1	1	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0
4	3	59	37	1	0	1	9	1	1	1	0	1	1	1	0	0	1	0	1	1	1	1	0	0
5	4	34	13	1	1	0	8	1	0	1	0	3	1	0	0	0	1	0	1	0	0	0	0	0
6	5	54	32	1	0	1	6	1	0	1	0	3	1	1	1	0	1	0	1	1	0	0	0	0
7	6	27	5	1	0	0	6	1	1	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0
8	7	48	19	C) 1	1	4	1	1	1	0	2	1	1	1	1	1	1	0	0	1	0	1	0
9	8	30	5	C	0 0	0	3	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10	9	32	9	C	0	0	4	1	1	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0
11	10	37	16	1	0	1	7	1	1	1	0	1	1	1	0	1	1	0	1	0	1	0	0	0
12	11	34	14	1	0	1	1	0	0	0	1	4	1	1	0	0	0	0	0	0	0	1	0	0
12	12	51	۵ ۵	1	1	1	<u>م</u>	1	1	1	0	1	1	1	<u>م</u>	n –					0	0	0	0

3. One characteristic, one column

Checkbox question

Q4.

Please select all the medical fields below that apply to the ones you are regularly engaged with to provide prostheses/orthoses.

- \Box orthopedic
- □ rehabilitation
- □ lower extremity wound
- others

3. One characteristic, one column

Engaged fields

orthopedic, rehabilitation, others

orthopedic, lower extremity wound

rehabilitation, lower extremity wound, others

orthopedic

orthopedic, rehabilitation

orthopedic, lower extremity wound

rehabilitation, lower extremity wound, others

Orthopedi	с	Rehabilitation	LE wounds	Others		
1		1	0	1		
1		0	1	0		
0		1	1	1		
1		0	0	0		
1		1	0	0		
1		0	1	0		
0		1	1	1		

=COUNTIF(A2,"*Orthopedic*")

1.All variables are represented with numbers.

- 2.One subject, one row.
- 3.One characteristic, one column.

4. Numeric values used for analysis should be precomputed.

5. Delete all the unnecessary columns unrelated to the analysis.

- 6.All questions are displayed with an Item Number.
- 7.Use "general format" for all cells.

4. Calculate all the necessary variables

subscale1	subscale2	subscale3	subscale4	age	Yrs in practice
1	1	2	1	56	44
3	3	1	4	62	88
4	1	5	1	33	66
3	2	4	0	58	43
4	1	4	4	70	78
5	3	1	5	43	97
2	1	1	1	28	43

subscale1	subscale2	subscale3	subscale4	total	ave	age	Yrs in practice						
1	1	2	1	5	1.25	56	44						
3	3	1	4	11	2.75	62	88						
4	1	5	1	11	2.75	33	66						
3	2	4	0	9	2.25	58	43						
4	1	4	4	13	3.25	70	78						
5	3	1	5	14	3.5	43	97						
2	1	1	1	5	1.25	28	43						
	=Sum(A2:D2) $=$ (F2/4)												

1.All variables are represented with numbers.

- 2.One subject, one row.
- 3.One characteristic, one column.
- 4. Numeric values used for analysis should be precomputed.

5. Delete all the unnecessary columns.

- 6.All questions are displayed with an Item Number.
- 7.Use "general format" for all cells.

5. Delete unnecessary column

ID	ime	email address	consent	lade	experience (yr)	IPE		management position	facility visit	Orthpedic	Rehabilitation	Wounds
1	2024/1/19 10:45		yes	54	30	1	1	1	7	1	1	
2	2024/1/19 14:53		yes	31	9	0	0	1	3	1	1	
3	2024/1/19 18:05		yes	59	37	1	0	1	9	1	1	
4	2024/1/19 18:10		yes	34	13	1	1	0	8	1	0	
5	2024/1/19 18:12		yes	54	32	1	0	1	6	1	0	
6			yes	27	5	1	0	0	6	1	1	
7	2024/1/19 18:36		Ves	48	19	0	1	1	4	1	1	

ID	ane	experience (yr)	IPE		management position	facility visit	Orthpedic	Rehabilitation	Wounds
1	54	30	1	1	1	7	1	1	
2	31	9	0	0	1	3	1	1	
3	59	37	1	0	1	9	1	1	
4	34	13	1	1	0	8	1	0	
5	54	32	1	0	1	6	1	0	
6	27	5	1	0	0	6	1	1	
7	48	19	0	1	1	4	1	1	

1.All variables are represented with numbers.

- 2.One subject, one row.
- 3.One characteristic, one column.
- 4. Numeric values used for analysis should be precomputed.
- 5. Delete all the unnecessary columns unrelated to the analysis.

6.All questions are displayed with an Item Number.

7.Use "general format" for all cells.

6. Label questions with item numbers

	А	В	С	D	E	F	G	Н	Ι	J	К	L	М	Ν	0	Р	Q	R	S	Т	U	V	w x		
1	ID	Q01	Q02	Q03	Q04	Q05	Q06	Q07-1	Q07-2	Q07-3	Q07-4	Q08	Q09-1	Q09-2	Q09-3	Q09-4	Q09-5	5 Q09-6	Q09-7	Q09-8	Q09-9	9 Q09-10	Q09-11 Q09-	12 G	
2	1	54	30	1	1	1	7	, 1	1	1	0	3	1	0		0		1 0		0 0		0 0	0	0	
3	2	31	9	0	0	1	3	1	1	0	0	2	1	1		0		0 0		0 0		0 0	о	0	
4	3	59	37	1	0	1	9	1	1	1	0	1													
5	4	34			1	0	8	1	0	1	0	3		А		В		C		D		F	F		G
6	5	54	32	1	0	1	6	, 1	0	1	0	3		A		D		C		D		L	1		9
7	6	27	5	1	0	0	6	, 1	1	0	0 0	1		5		Q01		Q02		Q03		204	Q05	ΞŢ	Q06
8	7	48	19	0	1	1	4	1	1	1	0	2													
9	8	30	5	0	0	0	3	1	0	0	0 0	1		1			54		30		1		1	1	7
10	9	32	9	0	0	0	4	1	1	0	0 0	1	_								-		•	-	
11	10	37	16	1	0	1	7	, 1	1	1	0	1		2			24							4	2
12	11	34	14	1	0	1	1	0	0	0	1	4				`	31		9		U		ן כ		3
10	12	51	٥		1	1	0	, 1	1	1	0	1		2											

Don't: Q1, Q2, \rightarrow DO: Q01, Q02 to avoid sorting Q1,Q10

6. Label questions with item numbers

Engaged fields

orthopedic, rehabilitation, others

orthopedic, lower extremity wound

rehabilitation, lower extremity wound, others orthopedic

orthopedic, rehabilitation

orthopedic, lower extremity wound

rehabilitation, lower extremity wound, others

<mark>Q.04</mark>

orthopedic, rehabilitation, others

orthopedic, lower extremity wound

rehabilitation, lower extremity wound, others

orthopedic

orthopedic, rehabilitation

orthopedic, lower extremity wound

rehabilitation, lower extremity wound, others

Orthopedic	Rehabilitation	LE wounds	Others
1	1	0	1
1	0	1	0
0	1	1	1
1	0	0	0
1	1	0	0
1	0	1	0
0	1	1	1

<mark>Q.04-1</mark>	<mark>Q.04-2</mark>	<mark>Q.04-3</mark>	<mark>Q.04-4</mark>
1	1	0	1
1	0	1	0
0	1	1	1
1	0	0	0
1	1	0	0
1	0	1	0
0	1	1	1

1.All variables are represented with numbers.

- 2.One subject, one row.
- 3.One characteristic, one column.
- 4. Numeric values used for analysis should be precomputed.
- 5. Delete all the unnecessary columns unrelated to the analysis.
- 6.All questions are displayed with an Item Number.
- 7. Use "general format" for all cells.

7. Use the "General" format for all cells

Number	Alignment	Font	Border	Fill	Protectio	on				1								
<u>C</u> ategory:		_																
General Number	A	Sample	e								6	5	0	-				
Currency											Q	R	S	T 8-000		V Q09-10	W	X
Account Date	ing	General	format cel	lls have no	o specific nu	mber for	mat.			0		0	0			0	0	
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Fraction	-													0		0	0	
Scientifie Text										0		0	1		1	1	0	
Special Custom										0		0	1	0			0	
Custom										0	1	0	1	1	0	0	0	C
										0	0	0	1	0	0	0	0	0
										1	1	1	0	0	1	0	1	C
										0	0	0	0	0	0	0	0	0
	∇									1	0	0	0	0	0	0	0	0
10	37 16	1 0	1 7	, 1	1 1	Ũ	1 1	1	0	1	1	0	1	0	1	0	0	C
11	34 14	1 0	1 1	0	0 0	1	4 1	1	0	0	0	0	0	0	, <u>, 0</u>		4/20	hong
12				1	1 1	0										umi,		

- 1.All variables are represented with numbers.
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Steps to prepare your survey data for statistical analysis

- 1. Review Data Structure
- 2. Handle missing values
- 3. Correct errors
- 4. Deal with outliers
- **5. Format Variables**
- 6. Rename Variables
- 7. Organize Data
- 8. Remove Unnecessary Information
- 9. Create a data dictionary

Today's topic

Data cleaning

Suggested data dictionary format

1. Transpose the item number

2. One item, one row

3. Use Arial font

Suggested data dictionary format

1. Transpose the item number

- 2. One item, one row
- 3. Use Arial font

1.Transpose the item number

А	В	С	D	E	F	G	Н	Ι	J	K	L
ID	Q01	Q02	Q03	Q04	Q05	Q06	Q07-1	Q07-2	Q07-3	Q07-4	Q08
1	54	30	1	1	1	7	1	1	1	0	3
2	31	9	0	0	1	3	1	1	0	0	2
3	59	37	1	0	1	9	1	1	1	0	1
4	34	13	1	1	0	8	1	0	1	0	e,
5	54	32	1	0	1	6	1	0	1	0	9
6	27	5	1	0	0	6	1	1	0	0	1
7	48	19	0	1	1	4	1	1	1	0	2
8	30	5	0	0	0	3	1	0	0	0	1
9	32	9	0	0	0	4	1	1	0	0	1

	А	В
1	Item number	Item
2	ID	ID
3	Q01	age
4	Q02	Years of experience as a prosthetist/Orthotists
5	Q03	Have you ever attended a training course on "Multidisciplinary Education"?
6	Q04	Do you have any experienceworking as a "non-prosthetist"
7	Q05	Do you have any experience in management positions?
8	Q06	Time spent per week atOnefacility
9	Q07-1	Are you involved in orthopedic prosthetics?
10	Q07-2	Are you involved with prostheticsthe rehabilitationfield?
11	Q07-3	Are you involved with prostheticsthe lower extremity woundarea?
12	Q07-4	involved inotherareas of prosthetics?
13	Q08	Of the areas you chose inQ07, please select one area that you are most involved
14	Q09-1	Are you involved with orthopedic surgeons in your daily clinical practice?
1	Q09-2	Are you involved withphysiatrist?
16	Q09-3	Are you involved withCardiovascularSurgeon/Vascular Surgeon?

Data dictionary

Data

Suggested data dictionary format

1. Transpose the item number

2. One item, one row

3. Use Arial font

2. One item, one row

	А	В	С	D
1	Item number	Item	type	answer
2	ID	ID	ordinal	number
3	Q01	age	numerical	number
4	Q02	Years of experience as a prosthetist/Orthotists	numerical	number
5	Q03	Have you ever attended a training course on "Multidisciplinary Education"?	categorical	1: Yes 0:No
6	Q04	Do you have any experienceworking as a "non-prosthetist"	categorical	1: Yes 0:No
7	Q05	Do you have any experience in management positions?	categorical	1: Yes 0:No
8	Q06	Time spent per week atOnefacility	numerical	number
9		Are you involved in orthopedic prosthetics?	categorical	1: Yes 0:No
10		Are you involved with prostheticsthe rehabilitationfield?	categorical	1: Yes 0:No
11		Are you involved with prostheticsthe lower extremity woundarea?		1: Yes 0:No
12	Q07-4	involved inotherareas of prosthetics?	categorical	1: Yes 0:No
13	Q08	Of the areas you chose inQ07, please select one area that you are most involved	categorical	1 Orthopedics. 2 Rehabilitation. 3:Lower Limb Wounds. 4: Other
14	Q09-1	Are you involved with orthopedic surgeons in your daily clinical practice?	categorical	1: Yes 0:No
15	Q09-2	Are you involved withphysiatrist?	categorical	1: Yes 0:No
16	Q09-3	Are vou involved withCardiovascularSurgeon/Vascular Surgeon?	categorical	1: Yes 0:No

Suggested data dictionary format

1. Transpose the item number

2. One item, one row

3. Use Arial font

3. Use Arial Font

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D16			
A			
1			
2	The Arial Black	CD	
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4	Arial The Arial Unicode MS	ordinal number	
6	Centur T Batang	numerical number	
7	Couries Tr Book Antiqua	numerical number	
5 6 7 8 9	Impact Tr Bookman Old Style	categorical 1: Yes 0:No	
0		categorical 1: Yes 0:No	
9	Monotype Tr Century	categorical 1: Yes 0:No	
10 11	Times N Tr Century Gothic	numerical number	
11	Verdan 👁 Century Schoolbook 📃 📃	categorical 1: Yes 0:No	
12		categorical 1: Yes 0:No	
Q07-3	Are you involved with prostheticsthe lower extremity woundarea?	categorical 1: Yes 0:No	
Q07-4	involved inotherareas of prosthetics?	categorical 1: Yes 0:No	
Q08	Of the areas you chose inQ07, please select one area that you are most involved	categorical 1 Orthopedics, 2 Rehabilitation, 3:Lower Limb Wounds, 4: O	ther
Q09-1	Are you involved with orthopedic surgeons in your daily clinical practice?	categorical 1: Yes 0:No	
Q09-2	Are you involved withphysiatrist?	categorical 1: Yes 0:No	
Q09-3	Are vou involved withCardiovascularSurgeon/Vascular Surgeon?	categorical 1: Yes 0:No	

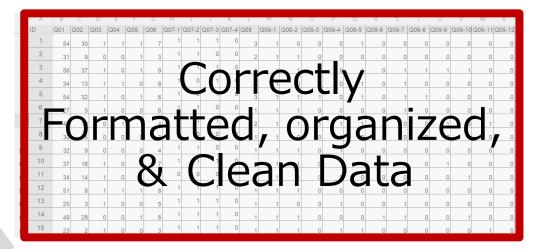
- 1. All variables are represented with numbers.
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- 5. Delete all the unnecessary columns unrelated to the analysis.
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- 7. Use "general format" for all cells.

Suggested data dictionary format

- 1. Transpose the item number
- 2. One item, one row
- 3. Use Arial font

Your goals

4	A	В	с	D	E	F	G	Н	
	id		2. Years of	3."Multidisciplinary Cooperation Education" Training Course	in a profession" other than		6. Time spent at the		7-
,		1. age	 Years of PO experience 		prosthetist"	5. "Management" experience	facility	7. own domain	sn
	1				be (usu. of		-	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	s
2	2	54	30	be (usu. of inanimate objects) not (verb-negating suffix; may	inanimate not (verb-	be (usu. of inanimate objects)		Orthopedics (provision of prosthetics for deformities and traumatic injuries s	-
3			9	indicate question or invitation	negating not (verb-	be (usu. of inanimate objects)	3		+
4	3	59	37	be (usu. of inanimate objects)	negating be (usu, of	be (usu. of inanimate objects) not (verb-negating suffix; may indicate	9	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	-
s	4	34	13	be (usu. of inanimate objects)	inanimate	question or invitation with rising	8	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	si.
6	5	54	32	be (usu. of inanimate objects)	not (verb- negating	be (usu. of inanimate objects)	6	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	SI.
7	6	28	7	not (verb-negating suffix; may indicate question or invitation	not (verb- negating	not (verb-negating suffix; may indicate guestion or invitation with rising	6	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	sı
í	7				not (verb-	not (verb-negating suffix; may indicate		Orthopedics (provision of prosthetics for deformities and traumatic injuries s	sı
8	8	27	5	be (usu. of inanimate objects) not (verb-negating suffix; may	negating be (usu. of	question or invitation with rising	6	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	+
9		48	19	indicate guestion or invitation not (verb-negating suffix; may	inanimate not (verb-	be (usu. of inanimate objects) not (verb-negating suffix; may indicate	- 4	Orthopedics (provision of prosthetics for deformities and traumatic injuries a	-
10	9	30	5	indicate question or invitation	negating	question or invitation with rising	3	such as fractures, sprains, and amputations)	
	10			not (verb-negating suffix; may	not (verb-	not (verb-negating suffix; may indicate question or invitation with rising		Orthopedics (provision of prosthetics for deformities and traumatic injuries s	sı
	11		3	indicate question or invitation	negating not (verb-		4	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	-
12	12	37	16	be (usu. of inanimate objects)	negating not (verb-	be (usu. of inanimate objects)	7		+
13		34	14	be (usu. of inanimate objects)	negating be (usu. of	be (usu. of inanimate objects)	1	assistive products (e.g. wheel chairs, hearing aids, etc.)	+
14	13	51	8	be (usu. of inanimate objects)	inanimate	be (usu. of inanimate objects)	8	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	9 1 .
15	14	25	3	be (usu. of inanimate objects)	not (verb- negating	not (verb-negating suffix; may indicate question or invitation with rising	5	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	si.
	15			not (verb-negating suffix; may	not (verb-			Orthopedics (provision of prosthetics for deformities and traumatic injuries s	sı
6	16		28	indicate question or invitation	negating not (verb-	be (usu. of inanimate objects) not (verb-negating suffix; may indicate		Orthopedics (provision of prosthetics for deformities and traumatic injuries s	-
17		23	2	be (usu. of inanimate objects)	negating not (verb-	question or invitation with rising not (verb-negating suffix; may indicate	3		+
18	17	39	15	be (usu. of inanimate objects) not (verb-negating suffix; may	negating not (verb-	question or invitation with rising	3	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	+
19	18	30	7	indicate question or invitation	negating	be (usu. of inanimate objects)	5	Rehabilitation (provision of prosthetics related to cardiovascular disorders su	10
20	19	47	26	be (usu. of inanimate objects)	not (verb- negating	be (usu. of inanimate objects)	1	I work for a manufacturer and do not provide directly	
	20	38		be (usu. of inanimate objects)	be (usu. of inanimate	he (usu of innelimate objects)		Orthopedics (provision of prosthetics for deformities and traumatic injuries s	sı.
21	21		3	not (verb-negating suffix; may	not (verb-	be (usu. of inanimate objects) not (verb-negating suffix; may indicate	4	Orthopedics (provision of prosthetics for deformities and traumatic injuries	+
22		47	19	indicate question or invitation not (verb-negating suffix; may	negating be (usu, of	question or invitation with rising not (verb-negating suffix; may indicate	4	such as fractures, sprains, and amputations)	+
23	22	36	7	indicate question or invitation	inanimate	question or invitation with rising	2	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	s.
14	23	49	4	not (verb-negating suffix; may indicate question or invitation	be (usu. of inanimate	be (usu, of inanimate objects)	10	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	át.
	24		_	not (verb-negating suffix; may	not (verb-	not (verb-negating suffix; may indicate	10	Orthopedics (provision of prosthetics for deformities and traumatic injuries	+
25	25	30	8	indicate question or invitation	negating not (verb-	question or invitation with rising	5	such as fractures, sprains, and amputations) Orthopedics (provision of prosthetics for deformities and traumatic injuries s	+
26		62	34	be (usu. of inanimate objects) not (verb-negating suffix; may	negating not (verb-	be (usu. of inanimate objects) not (verb-negating suffix; may indicate	3		*
27	26	45	18	indicate question or invitation	negating	question or invitation with rising	4	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	a.
28	27	31	8	be (usu. of inanimate objects)	not (verb- negating	not (verb-negating suffix; may indicate guestion or invitation with rising	6	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	SI.
29	28		13	not (verb-negating suffix; may	not (verb-		-	Orthopedics (provision of prosthetics for deformities and traumatic injuries	T
	29		12	indicate question or invitation not (verb-negating suffix; may	negating not (verb-	be (usu. of inanimate objects) not (verb-negating suffix; may indicate		such as fractures, sprains, and amputations), General Medicine Orthopedics (provision of prosthetics for deformities and traumatic inturies s	
30		36	14	indicate question or invitation	negating not (verb-	question or invitation with rising not (verb-negating suffix; may indicate	3		1
31	30	36	12	be (usu. of inanimate objects) not (verb-negating suffix; may	negating be (usu. of	question or invitation with rising not (verb-negating suffix; may indicate	1	Orthopedics (provision of prosthetics for deformities and traumatic injuries s Orthopedics (provision of prosthetics for deformities and traumatic injuries	я.
32	31	48	20		inanimate	question or invitation with rising	4	such as fractures, sprains, and amputations)	
33	32	55	27	be (usu, of inanimate objects)	not (verb- negating	be (usu, of inanimate objects)	3	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	st
	33				not (verb-		-	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	st
34	34	55	30	be (usu. of inanimate objects) not (verb-negating suffix; may	negating not (verb-	be (usu. of inanimate objects)	5	Orthopedics (provision of prosthetics for deformities and traumatic injuries s	+



A			
Item number	Item	type	
ID		ordinal	number
Q01	age	numerical	number
Q02	Years of experience as a prosthetist/Orthotists	numerical	number
Q03	Have you ever attended a training course on "Multidisciplinary Education"?	categorical	1: Yes 0:No
Q04	Do you have any experienceworking as a "non-prosthetist"		1: Yes 0:No
Q05	Do you have experience of management positices Time spent of weak and a product of the construction of th	categorical	1: Yes 0:No
Q06		nan eric i	number
Q07-1	Are you invitved in or nop disprovements?	categorical	1: Yes 0:No
Q07-2	Are you inverse with when the abilitation of?	categorical	1: Yes 0:No
Q07-3	Are you involved with prostheticsthe lower extremity woundarea?		1: Yes 0:No
2 Q07-4	involved inotherareas of prosthetics?	categorical	1: Yes 0:No
³ Q08	Of the areas you chose inQ07, please select one area that you are most involved	categorical	1 Orthopedics, 2 Rehabi
4 Q09-1	Are you involved with orthopedic surgeons in your daily clinical practice?	categorical	1: Yes 0:No
Q09-2	Are you involved withphysiatrist?	categorical	1: Yes 0:No
Q09-3	Are you involved withCardiovascularSurgeon/Vascular Surgeon?	categorical	1: Yes 0:No
Q09-4	Are you involved withcerebrovascular surgeon	categorical	1: Yes 0:No
⁸ Q09-5	Are you involved withplastic surgeon		1: Yes 0:No
Q09-6	Are you involved withsurgeon	categorical	1: Yes 0:No

Steps to prepare your survey data for statistical analysis

- 1. Review Data Structure
- **2.** Handle missing values
- **3.** Correct errors
- 4. Deal with outliers
- 5. Format Variables
- 6. Rename Variables
- 7. Organize Data
- 8. Remove Unnecessary Information
- 9. Create a data dictionary

Today's topic

Y. Izumi, 4/3/2024

Data cleaning

Thank you for your attention!

Cherry blossom by Meguro river in Osaki