

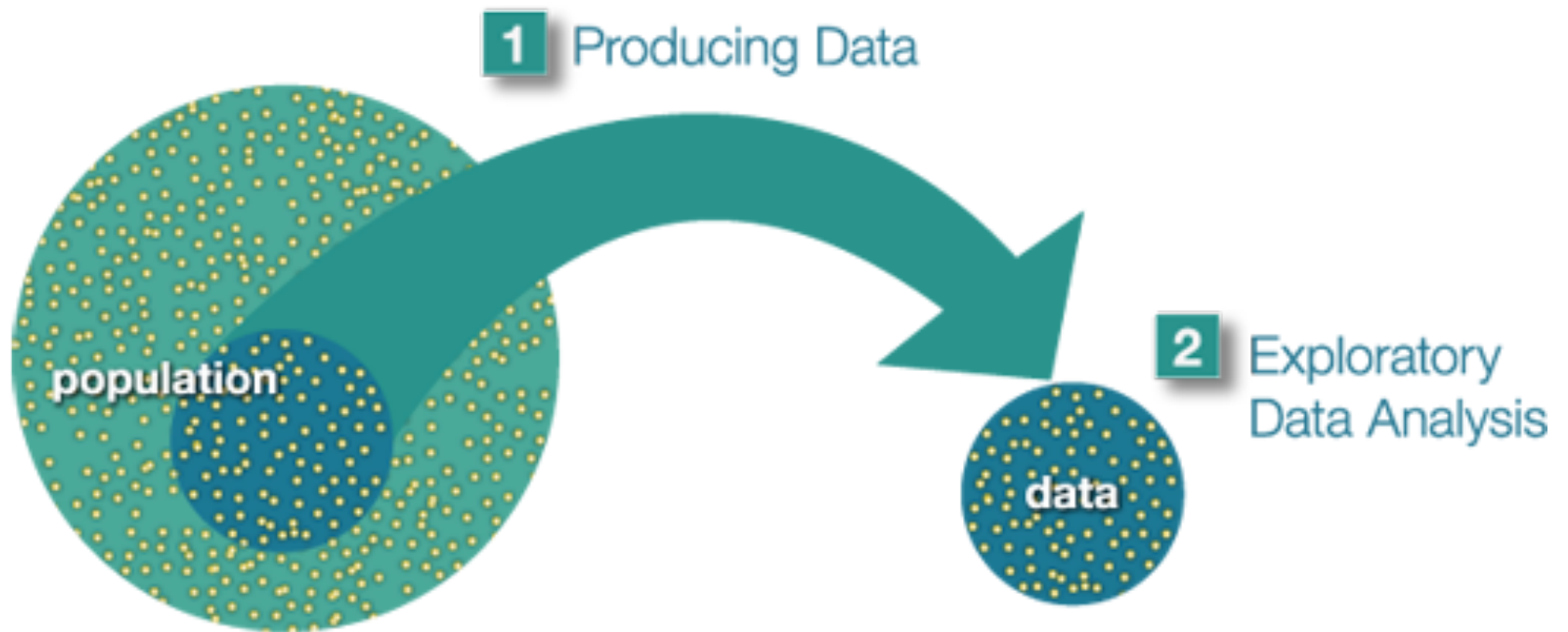
WESLEYAN

U N I V E R S I T Y

A word cloud featuring the words "DATA", "WORKING", and "Data" in various sizes and orientations. The words are arranged in a dense, overlapping pattern, with "DATA" and "WORKING" appearing in larger, bolder fonts. The colors are primarily shades of blue and teal. The background of the word cloud is a light blue gradient.

Raw Data

IDNUM	AGE	SEX	S1Q1C	S1Q1D1	S1Q1D2	S1Q1D3	S1Q1D4	S1Q1D5	S1Q6A	S3AQ1A
1	23	1	1	2	2	2	2	1	8	2
2	28	2	1	2	2	2	2	1	8	2
3	81	2	1	2	2	2	2	1	6	2
4	18	1	1	2	2	2	2	1	8	2
5	36	1	2	2	2	1	2	2	12	2
6	34	2	2	2	2	1	2	2	14	2
7	19	1	2	2	2	1	2	2	10	2
8	84	2	2	2	2	2	2	1	8	2
9	29	2	2	2	2	2	2	1	12	2
10	18	2	1	2	2	2	2	1	8	2
11	68	2	2	2	2	2	2	1	8	1
12	48	2	2	2	2	2	2	1	10	1
13	31	2	2	2	1	2	2	2	12	2
14	55	1	2	2	2	1	2	2	10	1
15	54	2	2	2	2	1	2	2	8	1
16	51	2	2	2	2	2	2	1	14	2
17	38	2	2	2	2	2	2	1	13	1
18	40	1	2	2	2	1	2	2	8	1
19	54	2	1	2	2	2	2	1	7	1
20	21	2	2	2	2	1	2	2	11	2
21	25	2	2	2	2	1	2	2	7	1
22	22	1	2	2	2	1	2	2	11	2
23	77	2	2	2	2	1	2	2	10	1
24	34	2	1	2	2	2	2	1	8	2
25	36	2	1	2	2	2	2	1	8	2
26	41	2	1	2	2	1	2	2	11	2
27	31	2	1	2	2	2	2	1	7	2
28	33	2	2	2	2	1	2	2	8	2
29	37	1	2	1	2	1	2	2	8	2
30	57	1	1	2	2	2	2	1	6	2
31	20	1	2	2	2	2	2	1	10	2
32	29	2	2	2	2	2	2	1	13	1
33	44	2	1	2	2	2	2	1	11	2
34	47	2	1	2	2	2	2	1	5	2
35	32	2	1	2	2	2	2	1	12	1
36	21	1	1	2	2	2	2	1	4	2
37	18	1	1	2	2	2	2	1	11	2
38	54	2	1	2	2	2	2	1	10	2
39	21	2	2	2	2	1	2	2	10	2



```
data boys;
  input SES_scout $ delinquent $ count @@;
  datalines;
  low_yes yes 11 low_yes no 43
  low_no yes 42 low_no no 169
  med_yes yes 14 med_yes no 104
  med_no yes 20 med_no no 132
  high_yes yes 8 high_yes no 196
  high_no yes 2 high_no no 59
  ;
proc freq;
  weight count;
  tables SES_scout *delinquent/all expected nocol nopct;
run;
```



Navigating SAS Enterprise Guide

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sas
THE POWER TO KNOW

A random sample of 1,200 U.S. college students were asked the following questions as part of a larger survey: “What is your perception of your own body? Do you feel that you are overweight, underweight, or about right?”

The following table shows part of the data (5 of the 1200 observations);

Body Image

Student	Body Image
student 25	overweight
student 26	about right
student 27	underweight
student 28	about right
student 29	about right



In order to summarize the distribution of a categorical variable, we first create a table of the different values (categories) the variable takes, how many times each value occurs (count) and, more importantly, how often each value occurs (by converting the counts to percentages). Here is the table for our example:

Body Image Distribution

category	Count	Percent
About right	855	$\left(\frac{855}{1200}\right) * 100 = 71.3\%$
Overweight	235	$\left(\frac{235}{1200}\right) * 100 = 19.6\%$
Underweight	110	$\left(\frac{110}{1200}\right) * 100 = 9.2\%$
Total	n=1200	100%



Use Variable Names in your Program

3650-3650	TAB12MDX	NICOTINE DEPENDENCE IN THE LAST 12 MONTHS
	38131	0. No nicotine dependence
	4962	1. Nicotine dependence
721-721	CHECK321	CIGARETTE SMOKING STATUS
	9913	1. Smoked cigarettes in the past 12 months
	8078	2. Smoked cigarettes prior to the last 12 months
	22	9. Unknown
	25080	BL. NA, never or unknown if ever smoked 100+ cigarettes
722-722	S3AQ3B1	USUAL FREQUENCY WHEN SMOKED CIGARETTES
	14836	1. Every day
	460	2. 5 to 6 Day(s) a week
	687	3. 3 to 4 Day(s) a week
	747	4. 1 to 2 Day(s) a week
	409	5. 2 to 3 Day(s) a month
	772	6. Once a month or less
	102	9. Unknown
	25080	BL. NA, never or unknown if ever smoked 100+ cigarettes
723-724	S3AQ3C1	USUAL QUANTITY WHEN SMOKED CIGARETTES
	17751	1-98. Cigarette(s)
	262	99. Unknown
	25080	BL. NA, never or unknown if ever smoked 100+ cigarettes

Selecting Observations (optional)

IDNUM	AGE	SEX	TABLIFEDX	S1Q1C	ETC.
2	21	1	1	1	...
3	18	2	0	2	...
...
6	25	2	0	1	...
7	23	2	1	2	...
9	23	2	1	2	...
...
12	19	2	0	2	...

Operations used in SAS Syntax

Symbol	Mnemonic Equivalent	Definition	Example
=	EQ	equal to	a=3
^=	NE	not equal to	a ne 3
¬=	NE	not equal to	
~=	NE	not equal to	
>	GT	greater than	num>5
<	LT	less than	num<8
>=	GE	greater than or equal to	sales>=300
<=	LE	less than or equal to	sales<=100

Logic statements for sub setting my data

Smoked in the past

721-721	CHECK321	CIGARETTE SMOKING STATUS

	9913	1. Smoked cigarettes in the past 12 months
	8078	2. Smoked cigarettes prior to the last 12 months
	22	9. Unknown
	25080	BL. NA, never or unknown if ever smoked 100+ cigarettes

IF CHECK321=1;

Young adults age 18 to 25

68-69	AGE	AGE

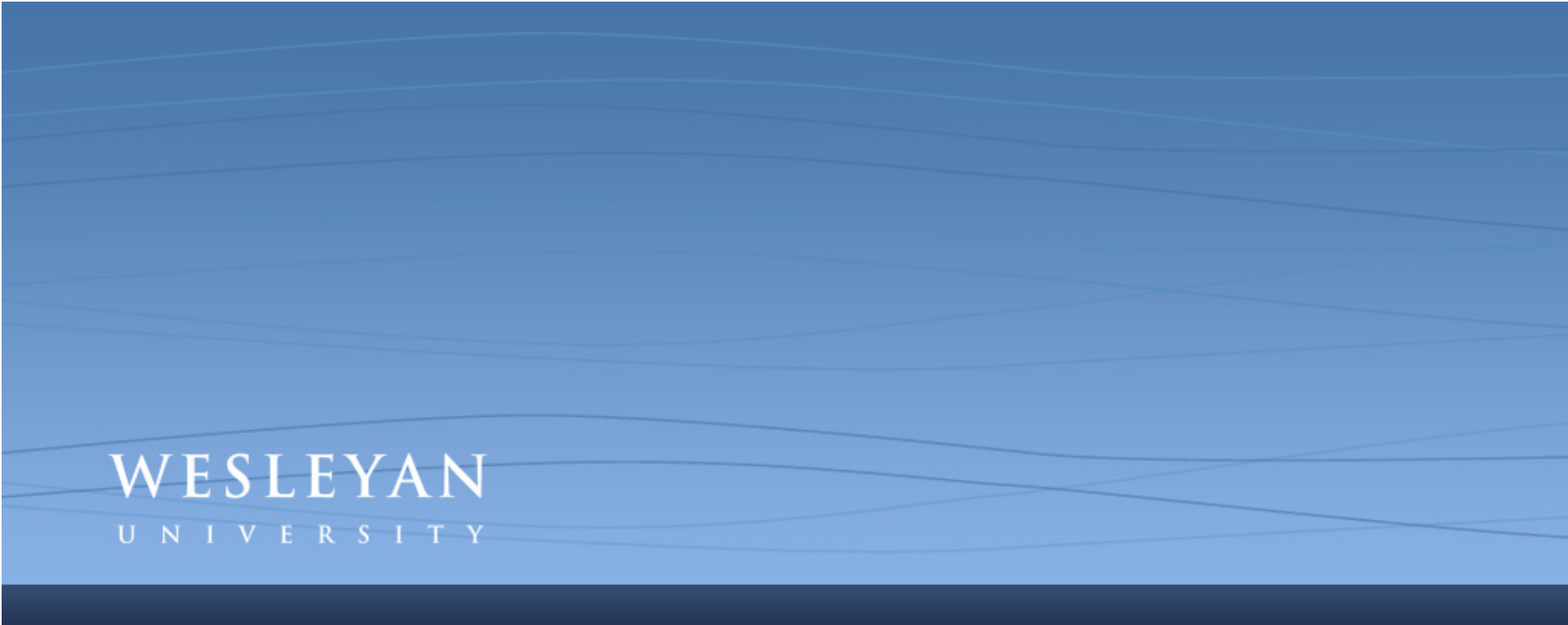
	43079	18-97. Age in years
	14	98. 98 years or older

IF AGE LE 25;

My research question...

Are smoking and nicotine dependence associated **among** young adults who have smoked in the past 12 months?



The image features a solid blue background with several thin, light blue wavy lines that create a sense of movement. In the bottom left corner, the Wesleyan University logo is displayed in white. The word "WESLEYAN" is in a large, serif font, and "UNIVERSITY" is in a smaller, sans-serif font directly below it.

WESLEYAN
UNIVERSITY

A word cloud visualization of the words "Assignment" and "Two". The words are arranged in a dense, overlapping pattern, with "Assignment" appearing in various sizes and orientations, and "Two" appearing in smaller sizes, often rotated. The colors are primarily blue and teal.