DATA
&
SPSS

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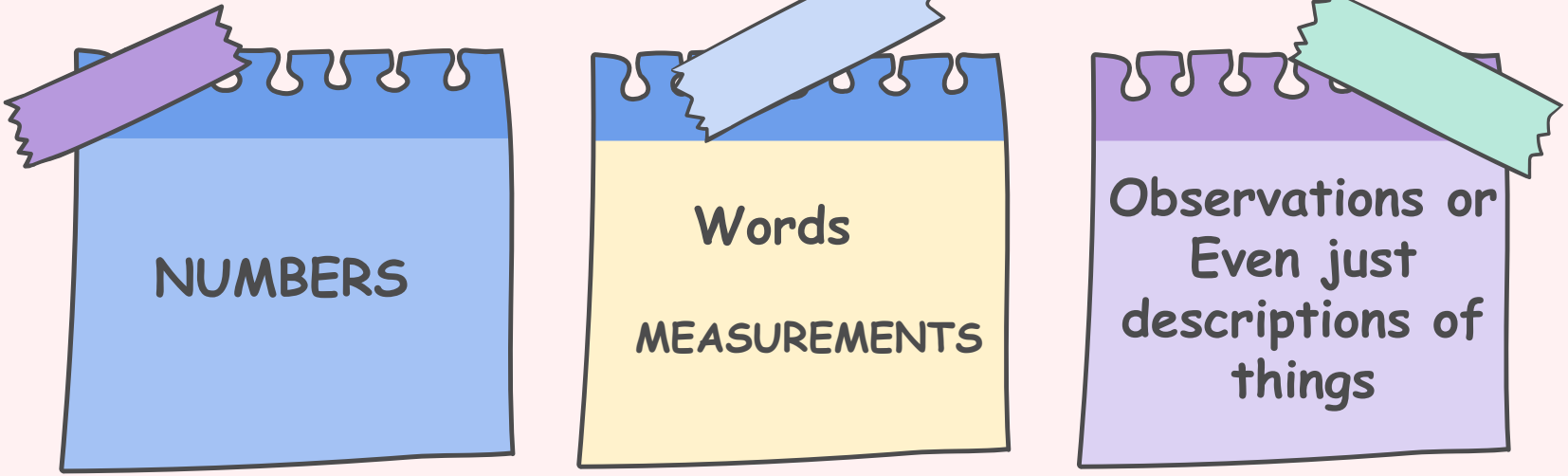
KGMC

GO!

OBJECTIVES OF SESSION

- Define and classify DATA
- Explain how to present DATA
- Explain data collection procedures
- Demonstrate & apply SPSS


DATA

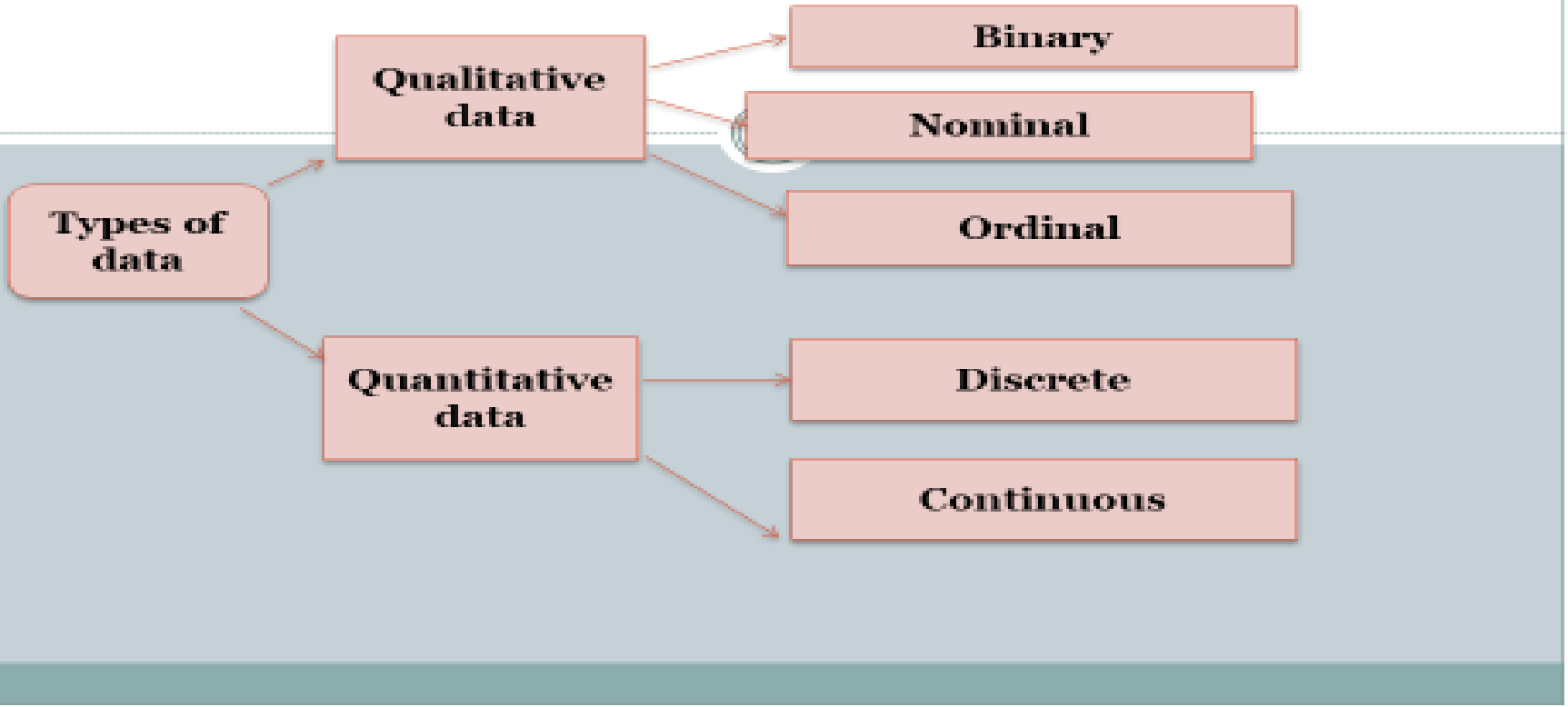

NUMBERS
Words
MEASUREMENTS
Observations or
Even just
descriptions of
things

Purpose of DATA

- To make decision about important issues
- To pass the information
- For research study.
- To obtain information

To keep record

CLASSIFICATION OF DATA



- **Binary data:**

Two mutually exclusive categories.

Binary data	categories
Gender	Male , female
Diabetes	Yes , no

- **Nominal data**: More than two mutually exclusive categories, these categories cannot be ordered .

Categories

- **Marital status:** single, married ,widowed, separated, divorced .
- **Employment status:** unemployed, self-employed, government employee.

- **Ordinal data**: More than two mutually exclusive categories but they can be ordered one above another, from lowest to highest.

Ordinal data	categories
Level of knowledge	Good, average, poor
Depression	Mild, moderate, severe

- **Quantitative data** can be

  - **Discrete**
  - **Continuous**

- **Discrete data** can only take certain values (like whole numbers)

Number of children: 2,4,5

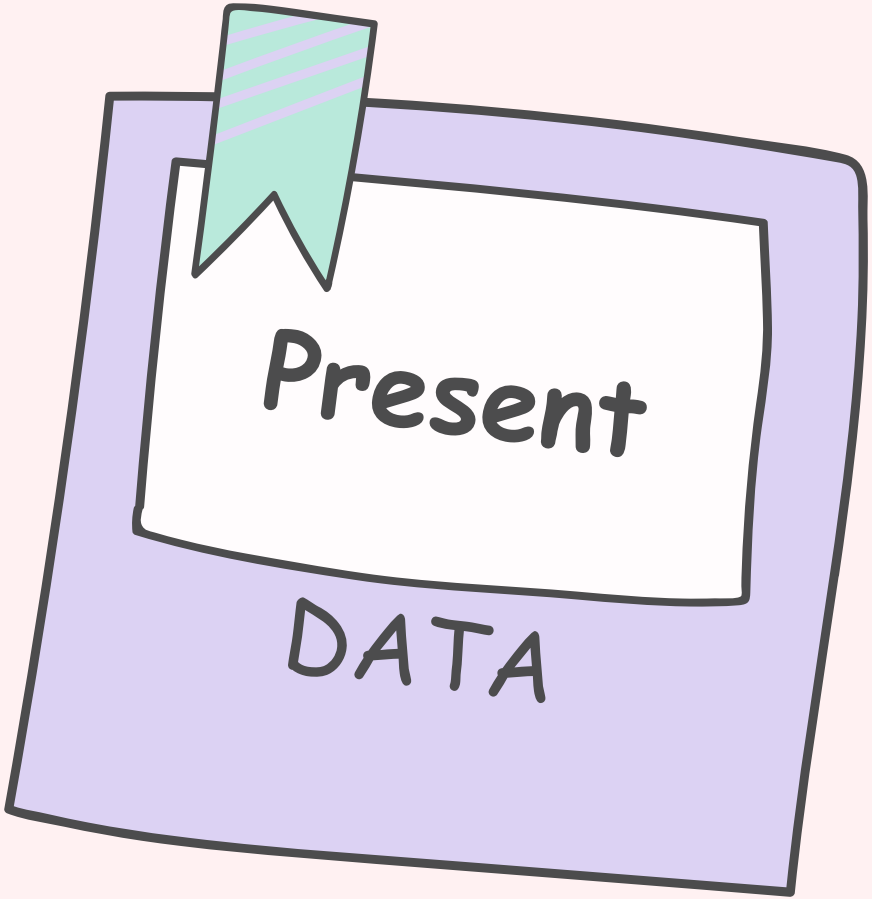
Length of stay : 5 days, 6 days

- **Continuous data** can take any value (within a range). Continuous data is one which can take either a decimal or fraction form

Weight : 59.5kg, 76.8kg

Hb of the participant : 13.1 mg/dl,8.9mg/dl

Put simply: ***Discrete data*** *is counted,* ***Continuous data*** *is measured*


Present
DATA

TABLES

GRAPHS
PIE ,
BAR,LINE
CHART

HISTOGRA
MS

SCATTER
PLOT
BOX &
WHISKERS

DATA collection tools

01

Observation. (checklist)

02

Questionnaire method.

03

Interview method

04

Focus group discussion

SPSS

- SPSS (Statistical Package for the Social Sciences) is a versatile and responsive program designed to undertake a range of statistical procedures.
- It’s important to note that SPSS is not the only statistical software – there are many others that you may come across.
- Stata ,R and SAS (and there are many others).
- The focus for this session, however, is on SPSS.

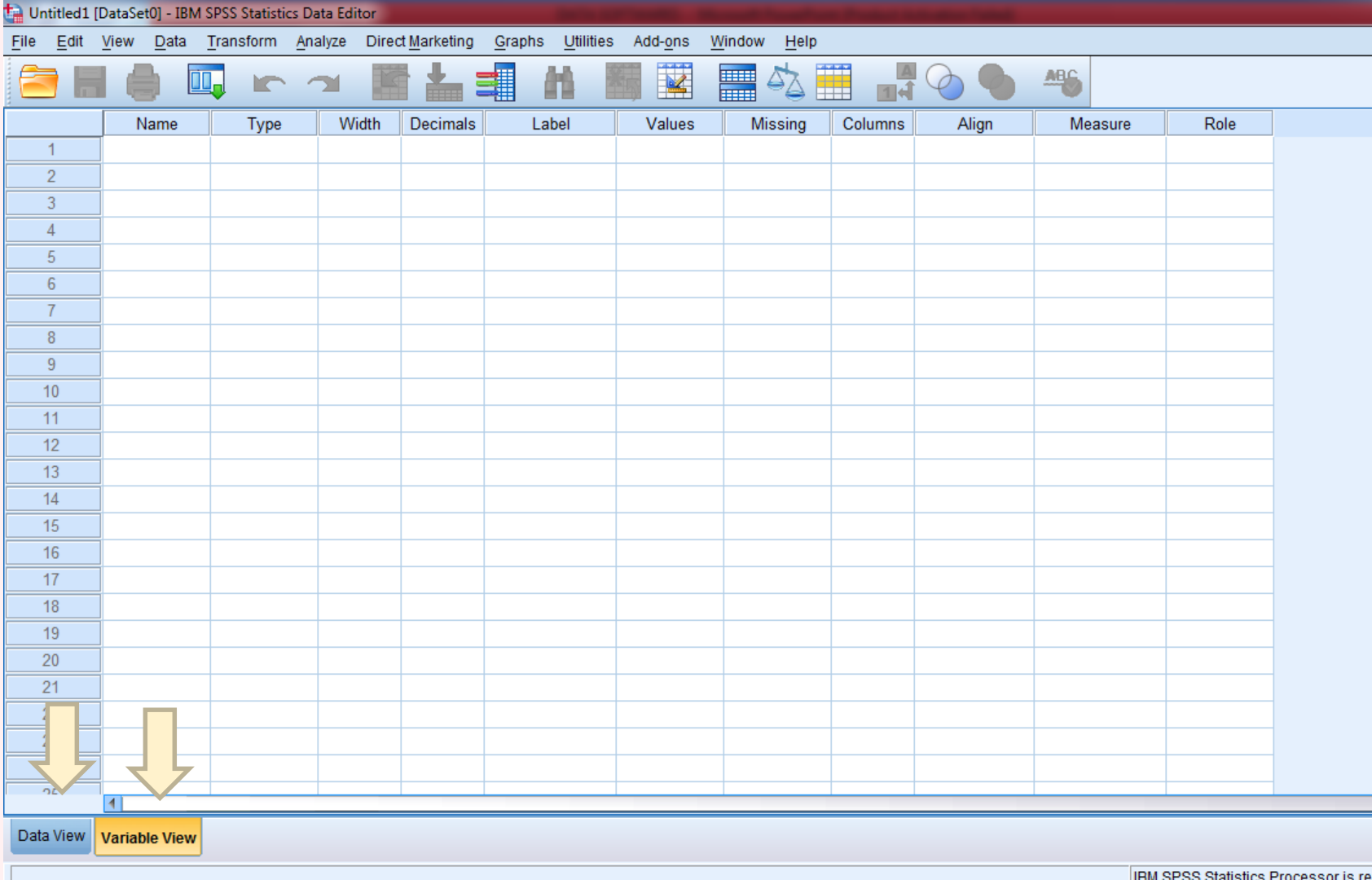
DATA

SORTED

ARRANGED

PRESENTED
VISUALLY

EXPLAINED
WITH A STORY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File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help
Name Type Width Decimals Label Values Missing Columns Align Measure Role
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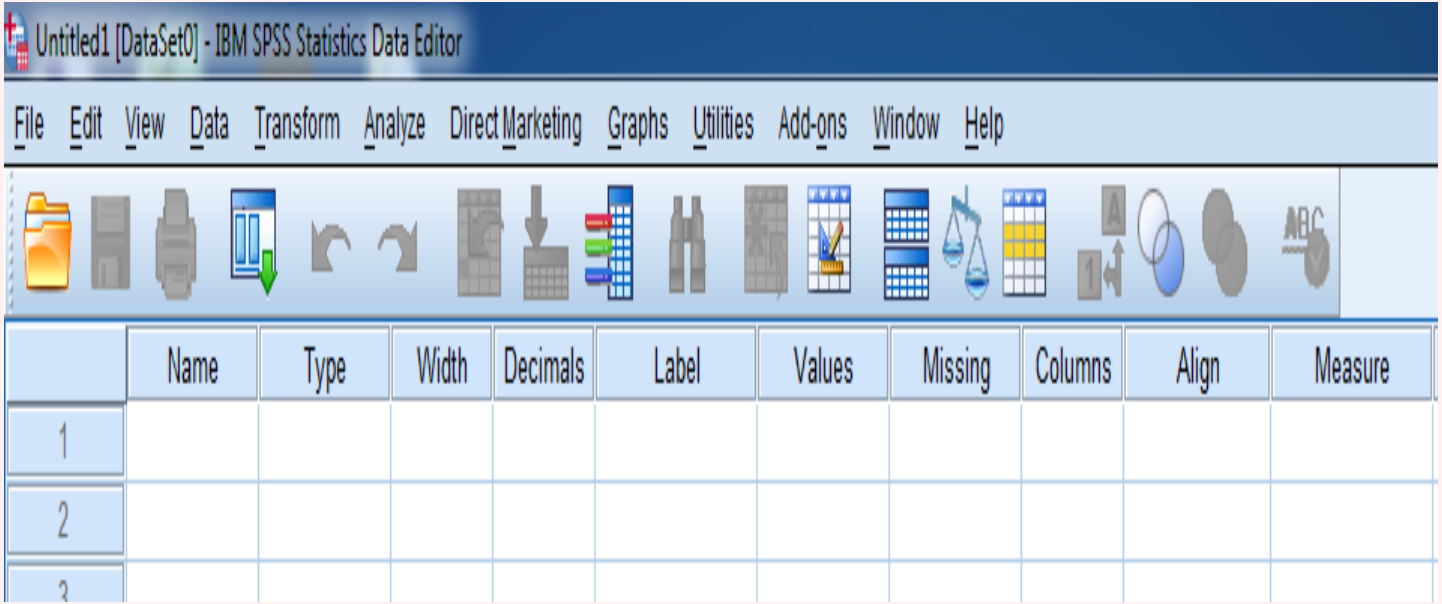
Data View
Variable View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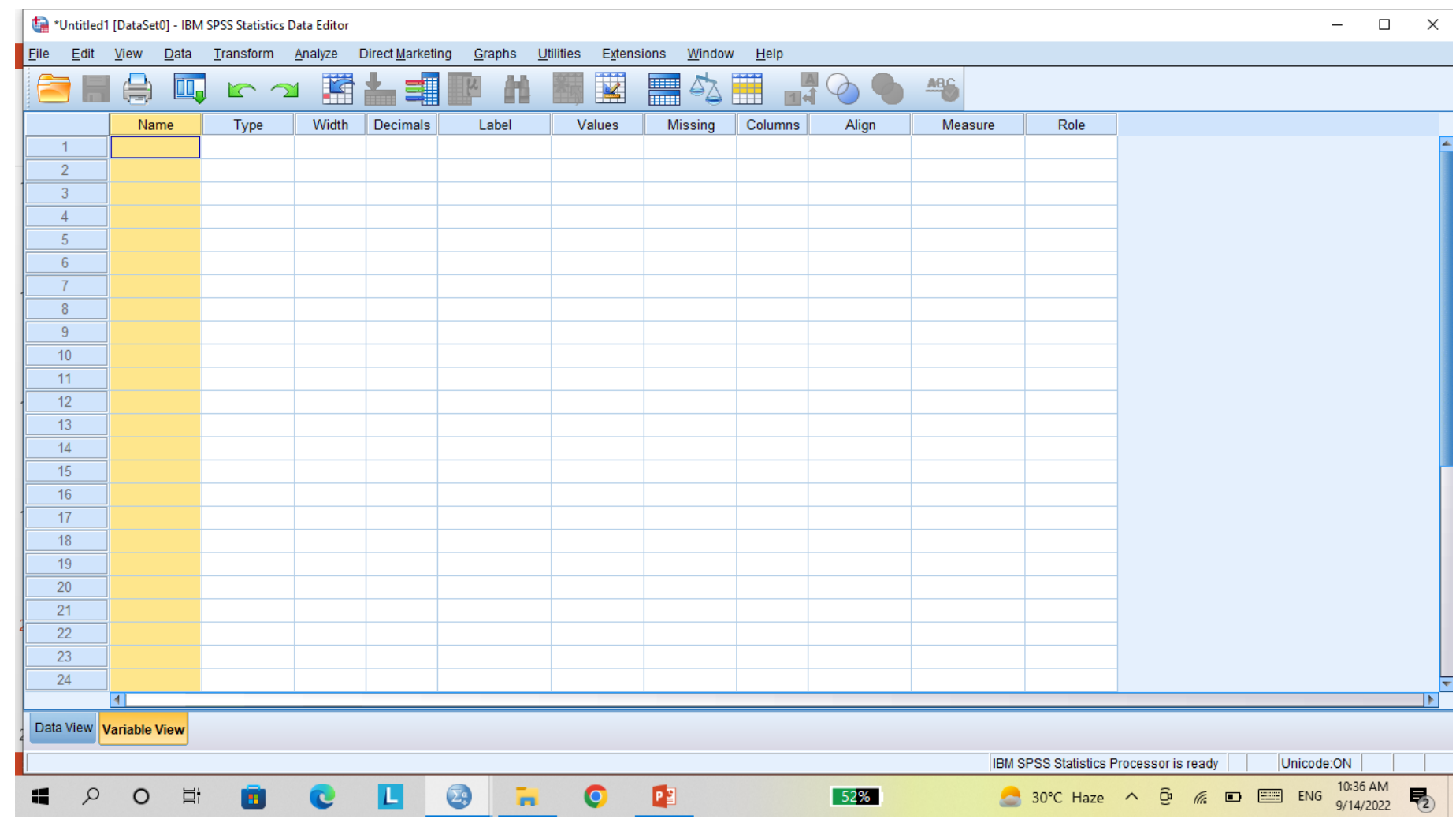
*Untitled1 [DataSet0] - IBM SPSS Statistics Data Editor
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Data View
Variable View
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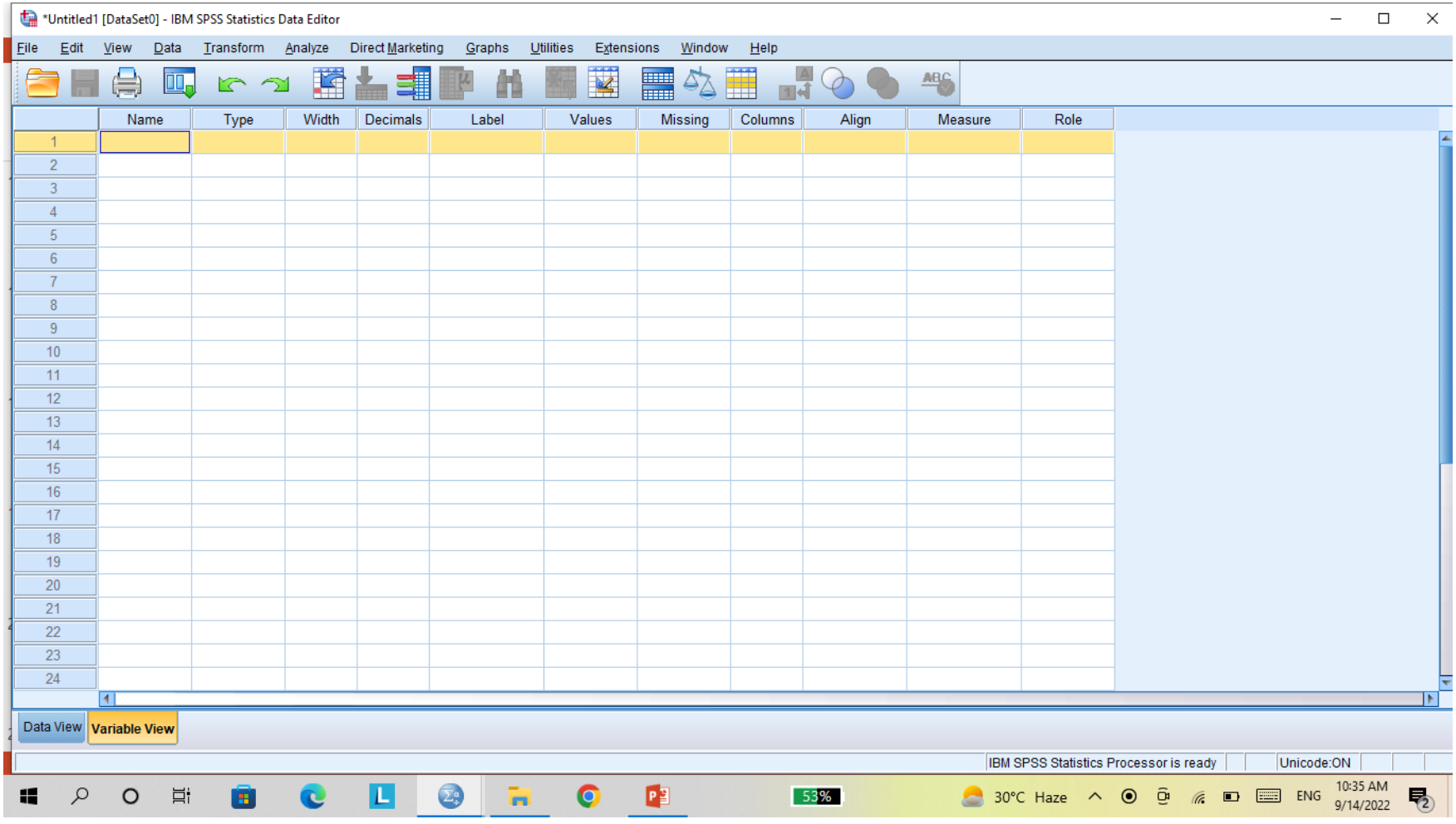
9/14/2022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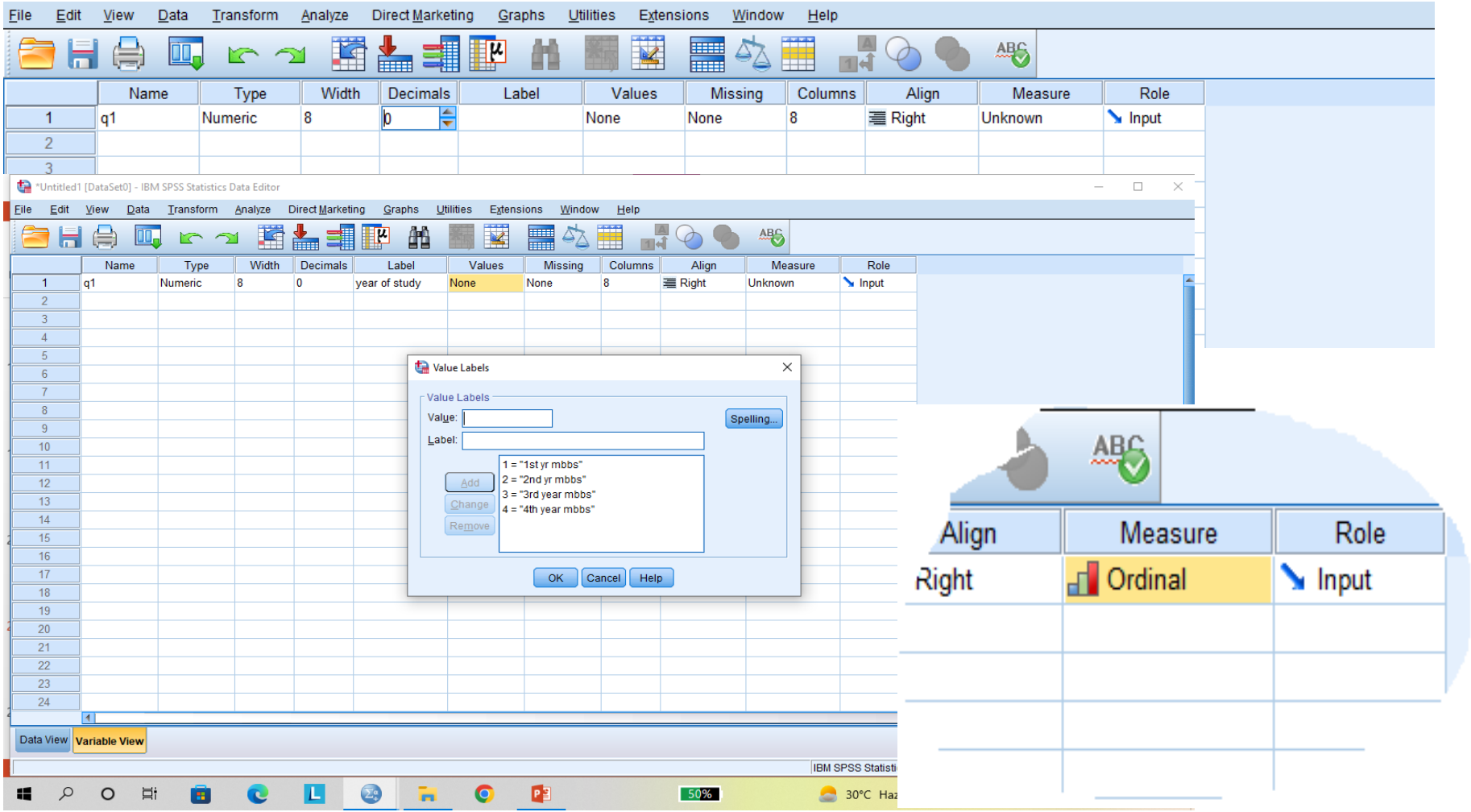
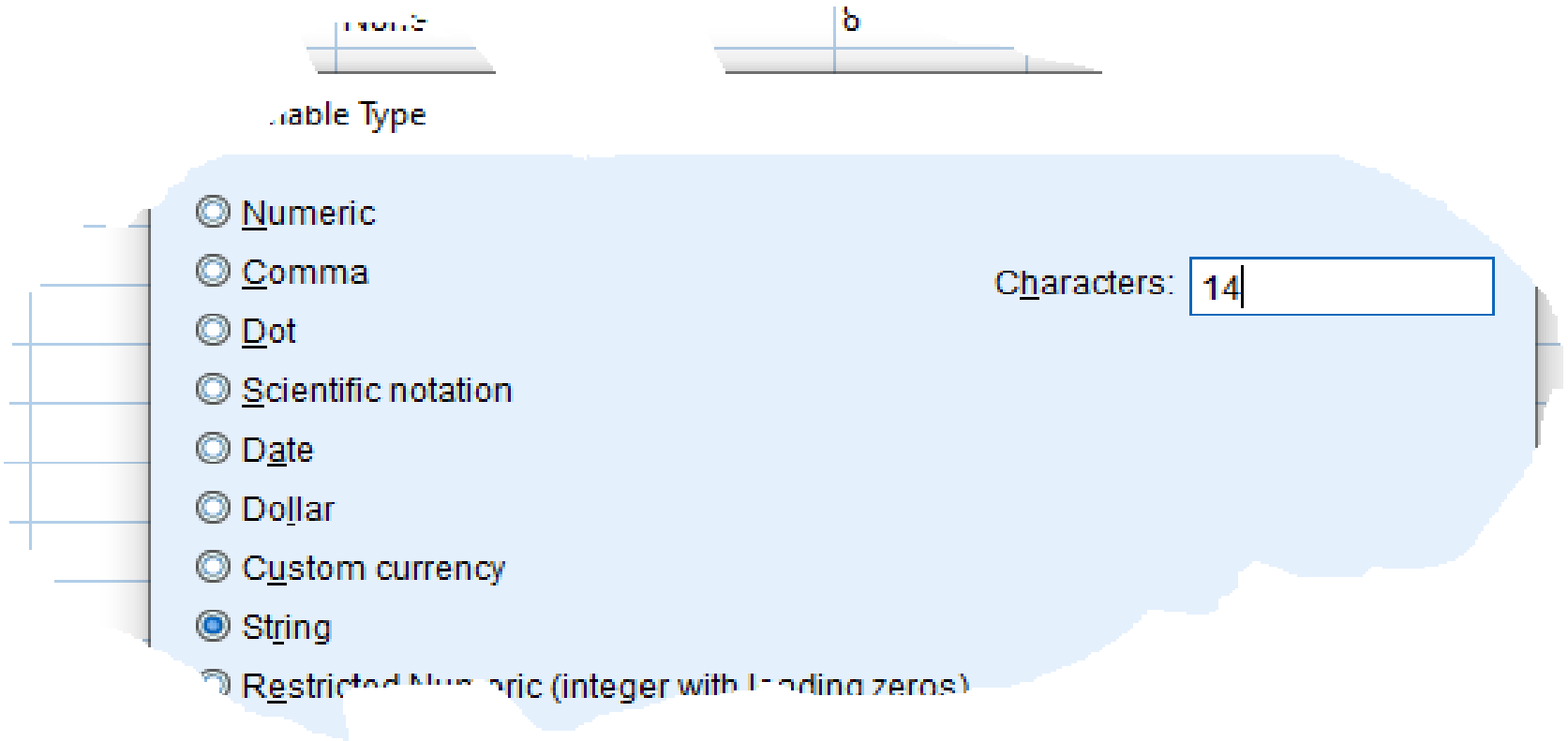

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Extensions Window Help
Name Type Width Decimals Label Values Missing Columns Align Measure Role
1 q1 Numeric 8 0 None None 8 Right Unknown Input
*Untitled1 [DataSet0] - IBM SPSS Statistics Data Editor
year of study
Value Labels
Value Labels
Value:
Label:
Spelling...
Add
Change
Remove
1 = "1st yr mbbs"
2 = "2nd yr mbbs"
3 = "3rd year mbbs"
4 = "4th year mbbs"
OK Cancel Help
Data View
Variable View
Align Measure Role
Right Ordinal Input


b
able Type
Numeric
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Scientific notation
Date
Dollar
Custom currency
String
Characters:
14

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Extensions Window Help

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1	q1	Numeric	8	0	year of study	{1, 1st yr m...	None	8	Right	Ordinal	Input
2	q2	Numeric	8	0	residency	{1, campus}...	None	8	Right	Nominal	Input
3	q3a	String	14	0	fathers occupat...	None	None	8	Left	Nominal	Input
4	q3b	String	8	0	mothers occup...	None	None	8	Left	Nominal	Input
5	q41	Numeric	8	0	surgery	{1, yes}...	None	8	Right	Nominal	Input
6	q42	Numeric	8	0	internal medicine	{1, yes}...	None	8	Right	Nominal	Input
7	q43	Numeric	8	0	eye	{1, yes}...	None	8	Right	Nominal	Input
8	others	Numeric	8	0	others	None	None	8	Right	Unknown	Input
9											
10											
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16											
17											
18											
19											

Value Labels

Value Labels

Value:

Label:

Spelling...

Add

Change

Remove

1 = "no"
2 = "research"
3 = "gynae"
4 = "xyz"

*Untitled1 [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Extensions Window Help

1 : q1 | 1 | Visible: 8 of 8 Variables

	q1	q2	q3a	q3b	q41	q42	q43	others	var	var	var	var	var	var	var	var
1	1	2	housewife	doc	1	2	1	1								
2	.	.			.	.	.	.								
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Data View | Variable View

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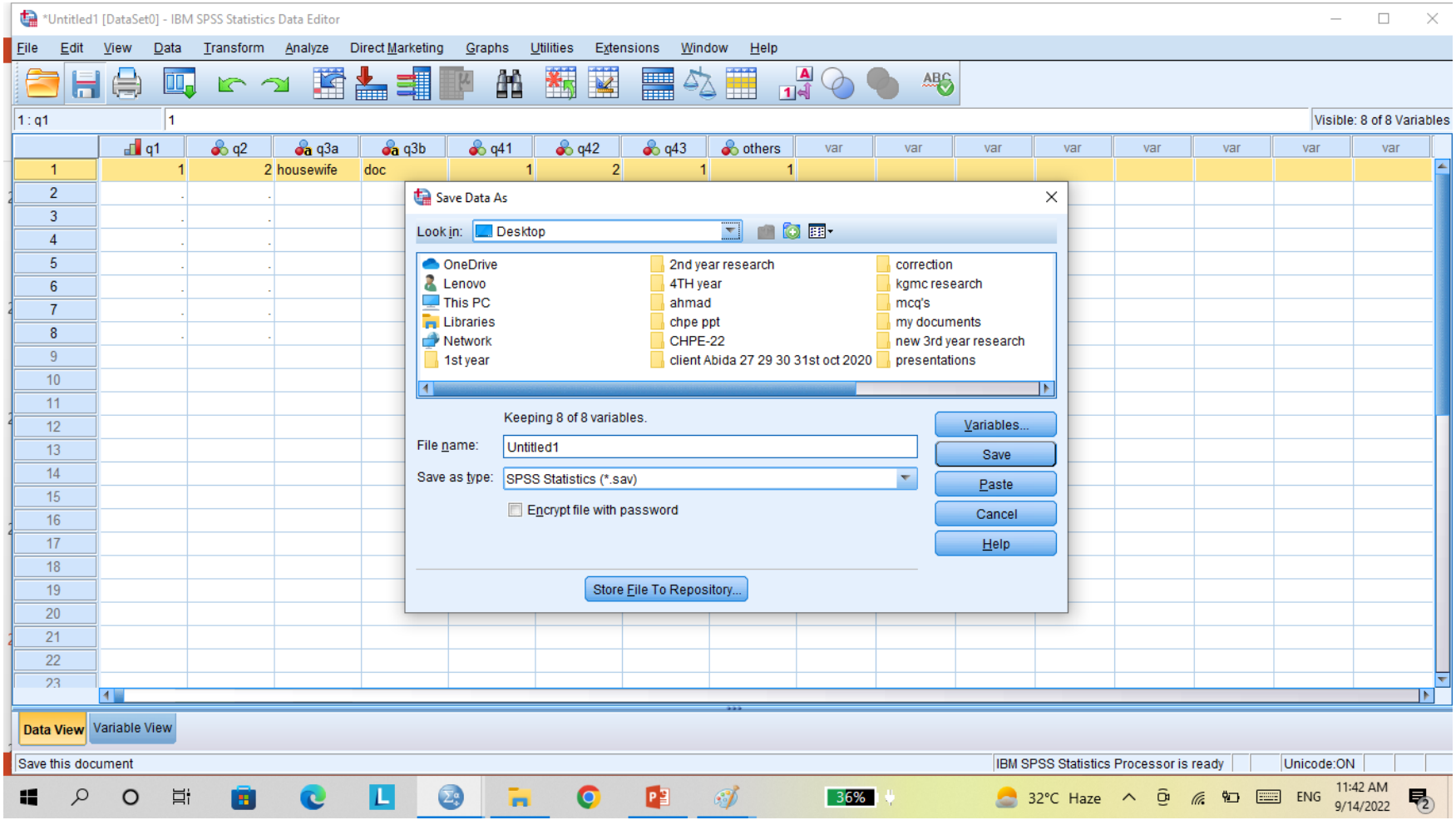
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File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Extensions Window Help
1 : q1
1
Visible: 8 of 8 Variables
q1 q2 q3a q3b q41 q42 q43 others var var var var var var var var
1 1 2 housewife doc 1 2 1 1
Save Data As
Look in: Desktop
OneDrive
Lenovo
This PC
Libraries
Network
1st year
2nd year research
4TH year
ahmad
chpe ppt
CHPE-22
client Abida 27 29 30 31st oct 2020
correction
kgmc research
mcq's
my documents
new 3rd year research
presentations
Keeping 8 of 8 variables.
File name: Untitled1
Save as type: SPSS Statistics (*.sav)
Encrypt file with password
Variables...
Save
Paste
Cancel
Help
Store File To Repository...
Data View
Variable View
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IBM SPSS Statistics Processor is ready
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9/14/2022

SPSS Output

- Separate file in Output Viewer
- Inline Editing of Tables
- Chart Editor for Graphs

Don't forget to save

- Data file
- Output file


THANK YOU