

SPSS Practical (1)

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Lesson Objectives

طريقة فتح ملف لـ SPSS

- Open SPSS Data Documents
- Import Excel and text files using SPSS's import tools.

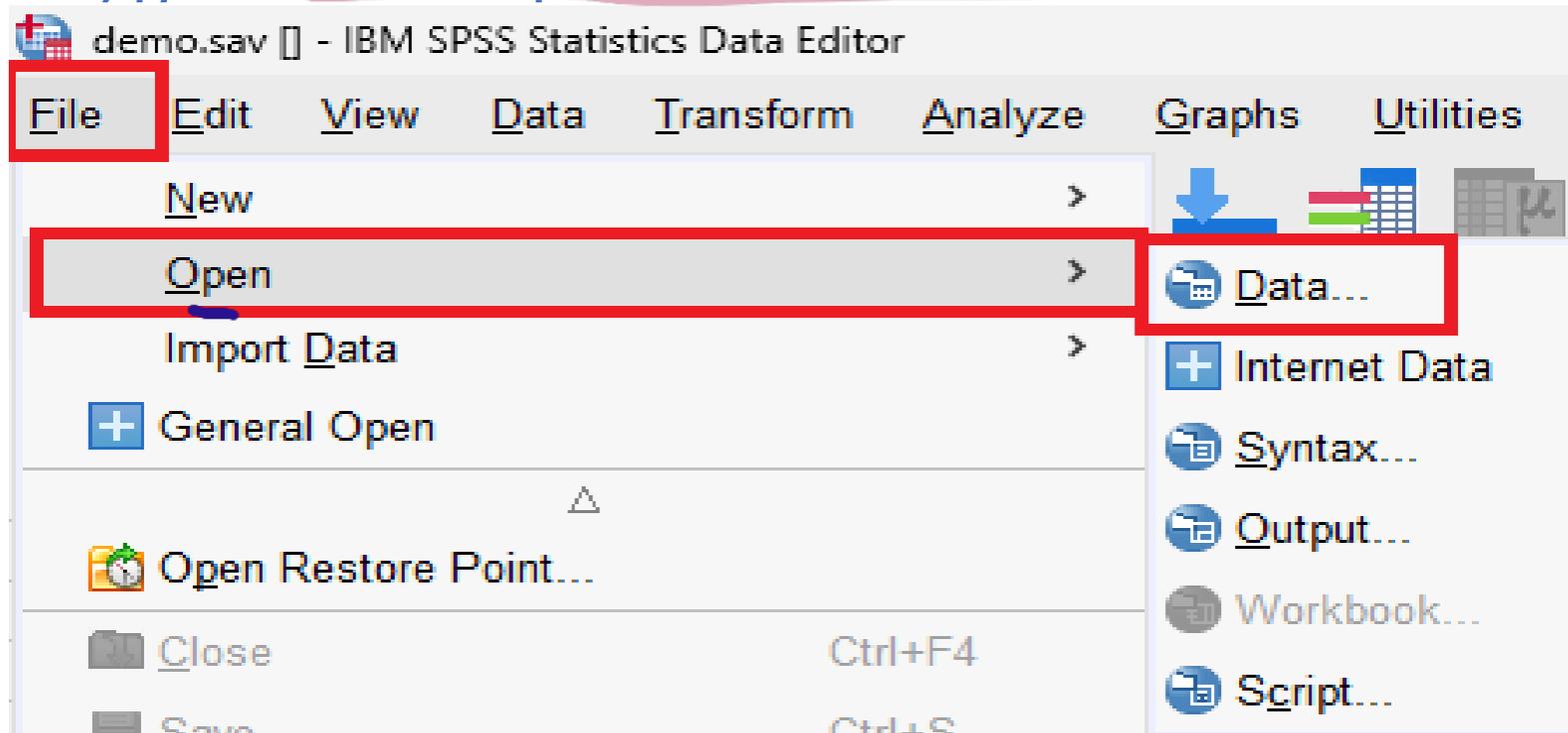
استيراد ملف
Excel
text

Opening SPSS Data Documents (.sav)

Name .SAV

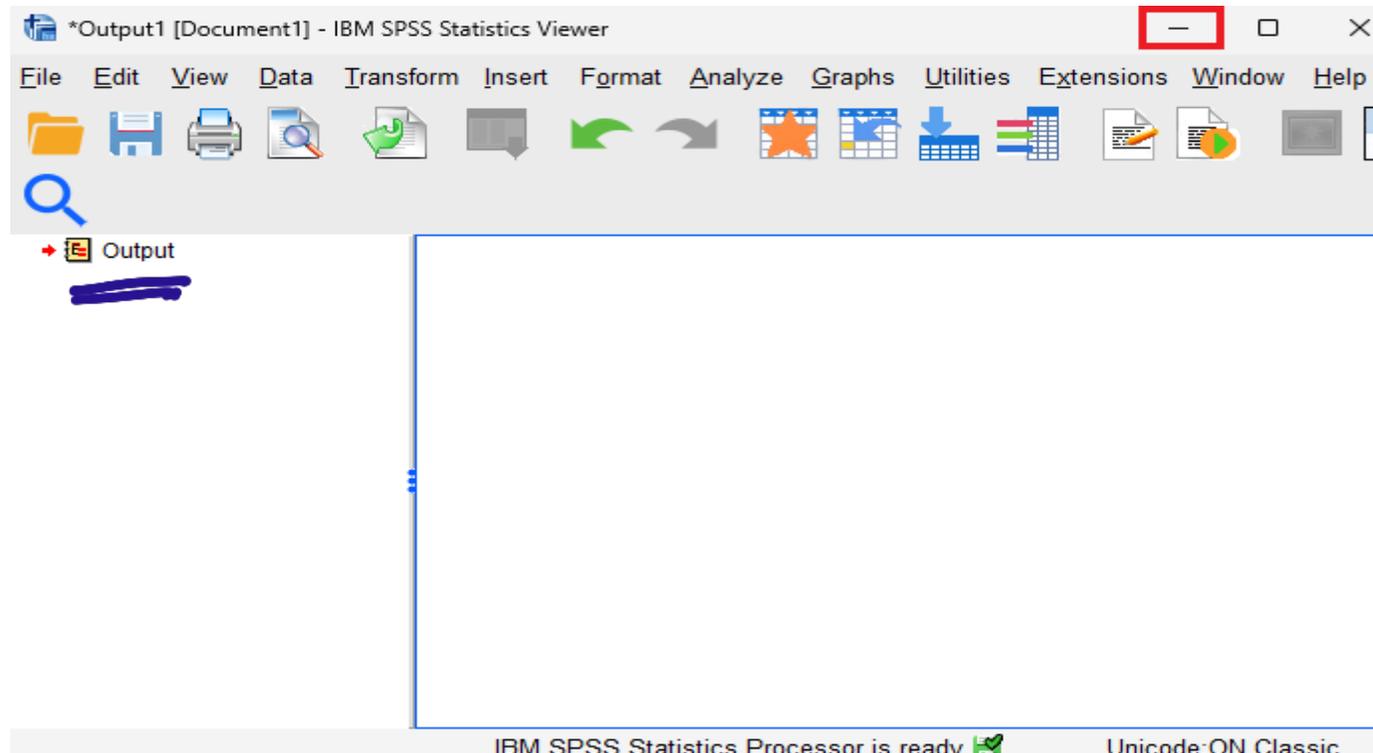
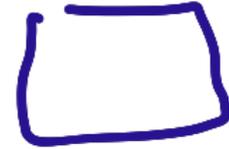
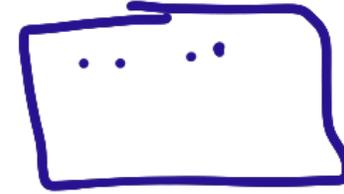
- Open SPSS if you haven't already, and open data.sav.
- ✓ Browse for the file if prompted.
- ✓ Otherwise, go to File > Open > Data and find the file.

خطوات فتح



Cont.

- If an Output Window pops up, minimize it for now.
- You should now have your SPSS Data Document open.



نبدأ باختلاف
حللنا output
فبا مَرَد مسووا
صير ملف
SPSS

Importing Excel Files (.xlsx)

Names

- Before importing our Excel file, let's take a look at the file in MS Excel.

	A	B	C	D	F	G
1	Age	Gender	Marital Status	Address	Income Category	Job Category
2	55	f	1	12	3.00	3
3	56	m	0	29	4.00	3
4	28	f	no answer	9	2.00	1
5	24	m	1	4	2.00	1
6	25	m	no answer	2	1.00	2
7	45	m	0	9	4.00	2
8	44	m	1	17	4.00	3
9	46	m	no answer	20	4.00	3
10	41	m	no answer	10	2.00	2
11	29	f	no answer	4	1.00	2
12	34	m	0	0	4.00	2
13	55	f	0	17	3.00	1

Cont.

هناك بعض المشاكل التي تظهر في ملفات البيانات

- There are some common problems that may appear in data files.

✓ Leading and trailing spaces مسافات بادئة و زائدة

✓ Empty data cells خلايا فارغة

✓ Data cells with invalid values قيم غير مقبولة

- SPSS provides tools to deal with these problems when importing data. SPSS لديه أدوات لمعالجة هذه المشاكل عند الاستيراد

✓ Close your MS Excel window and go back to SPSS.

✓ Go to File > Import Data > Excel and find data.xlsx.

خطوات استيراد ملف اكسل

demo.sav [DataSet2] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Graphs Utilities Extensions Window

New >
Open >
Import Data استيراد البيانات >
+ General Open

Open Restore Point...

Close Ctrl+F4
Save Ctrl+S
Save As...
Save All Data
Save Restore Point...
Export >
Mark File Read Only
Revert to Saved File

Database >
Excel...
CSV Data...
Text Data...
SAS...
Stata...
dBase...
Lotus...
SYLK...
Cognos TM1...
Cognos Business Intelligence...

كيفية الملف

Cont.

ادارة
الاستيراد

عند استيراد ملف xlsx معروف
تظهر نافذة ادوار الاستيراد
تحتار الخيارات المناسبة للملف
مثل: - حذف المسافات

- This will open up an import tool. You'll have a few options to choose from, such as whether to remove leading/trailing spaces, whether the first row contains variable names, and more.

امراء المتغيرات من الصف الاول

احمل الاعمدة والصفوف ككيفية

حذف المسافات البادئة

	Age	Gender	MaritalStatus	Address	IncomeCategory	JobCateg
1	55	f	1	12	3.00	3
2	56	m	0	29	4.00	3
3	28	f	0	9	2.00	1
4	24	m	1	4	2.00	1
5	25	m	0	2	1.00	2
6	45	m	0	9	4.00	2
7	44	m	1	17	4.00	3
8	46	m	0	20	4.00	3

Final data type is based on all data and can be different from the preview, which is based on the first 200 data rows. The preview displays only the first 500 columns.

OK Paste Reset Cancel Help

Cont.

نظري كيف سيكون شكل
الجدول

نافذة استعراض

تظهر كما

- A preview window is provided below to see how the data will look after the import finishes. The most important setting is Percentage of values that determine data type. This will automatically deal with blank and invalid values, replacing them with System Missing. Notice that, if you turn off this setting, Marital Status becomes a String type rather than a numeric type, which is not what we want.

هذا خيار مهم لهذا النسبة القيمة المراد ابيانات

- Once you're done, double-check your settings and click OK.

فيها الخيار سيتم التعامل مع الخلايا الفارغة والكائنة بشكل انوعها يتغير
حيث سيتم لها حسب النظام

Importing Text Files (.txt)

- Importing a text file with data is quite similar to importing an Excel file, but there are more options and settings to take care of. Just like last time, let's take a look at our text file before importing.

فيل الاستيراد

The screenshot shows a text editor window titled 'demo' with a menu bar (File, Edit, View) and a settings icon. The main area contains a table of data. A handwritten note 'Tab' with an arrow points to the 'Income' column header. The status bar at the bottom indicates 'Ln 10, Col 19', '100%', 'Unix (LF)', and 'UTF-8'.

Age	Gender	Marital	Status	Address	Income	Income	Category	Job	Category
55	f	1	12	72.00	3.00	3			
56	m	0	29	153.00	4.00	3			
28	f	no	answer	9	28.00	2.00	1		
24	m	1	4	26.00	2.00	1			
25	m	no	answer	2	23.00	1.00	2		
45	m	0	9	76.00	4.00	2			
44	m	1	17	144.00	4.00	3			
46	m	no	answer	20	75.00	4.00	3		
41	m	no	answer	10	26.00	2.00	2		
29	f	no	answer	4	19.00	1.00	2		
34	m	0	0	89.00	4.00	2			
55	f	0	17	72.00	3.00	1			
28	m	0	9	55.00	3.00	1			
21	f	1	2	20.00	1.00	1			
55	f	0	8	283.00	4.00	2			
35	m	0	8	70.00	3.00	2			
45	f	0	4	48.00	2.00	2			
21	m	0	1	37.00	2.00	1			

.txt

Cont.

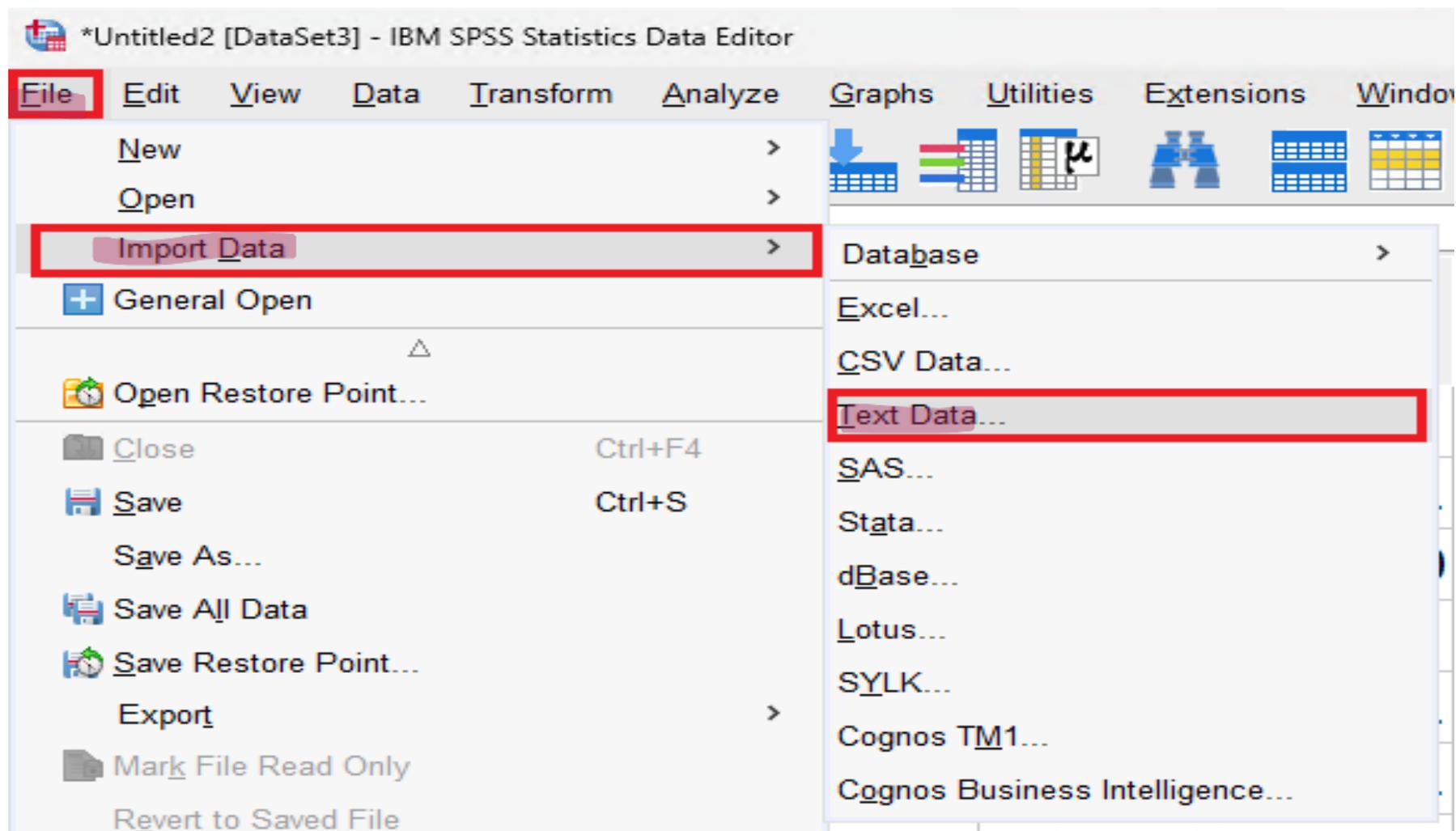
- We can see some of the same problems we encountered in our Excel file. Leading and trailing spaces, as well as no answer values. In the text file, the data isn't aligned with their rows either.

البيانات ليست منظمه تماما كالجداول

- If you mess around with the data, you'll notice that it's tab-delimited. This'll help SPSS differentiate the difference between "Income Category" and "Income" + "Category".

استخدمت
Tab لفصل
او كذا في البيانات -

- Close your text file and go back to SPSS.
- Go to File > Import Data > Text data... and find data.txt.



Step 1

Text Import Wizard - Step 1 of 6

Welcome to the text import wizard!
This wizard will help you read data from your text file and specify information about the variables.

صد هلدك ليلابق التنسيف المعروف

Does your text file match a predefined format?

Yes

No

Text file: C:\Users\motorger\Downloads\demo.txt

Name	Age	Gender	Marital Status	Address	Income	Income Ca	
2	55	f	1	12	72.00	3.00	3
3	56	m	0	29	153.00	4.00	3
4	28	f	no answer	9	28.00	2.00	1
5	24	m	1	4	26.00	2.00	1

< Back **Next >** Finish Cancel Help

Step 2

- Our data is delimited by tabs, with the first line in the data being our variable names. We're also using a period (.) for our decimal symbol.

Age Gender ✓

Text Import Wizard - Step 2 of 6

How are your variables arranged? *المتغيرات (الفصل) من خلال Tab او فاصلة*

Delimited - Variables are delimited by a specific character (i.e., comma, tab).

Fixed width - Variables are aligned in fixed width columns.

Are variable names included at the top of your file? *هل المتغيرات موجودة في البداية*

Yes

Line number that contains variable names: 1

No

What is the decimal symbol? *الرمز المستخدم*

Period

Comma

Text file: C:\Users\motorger\Downloads\demo.txt

Name	Age	Gender	Marital Status	Address	Income	Income Ca
------	-----	--------	----------------	---------	--------	-----------

< Back **Next >** Finish Cancel Help

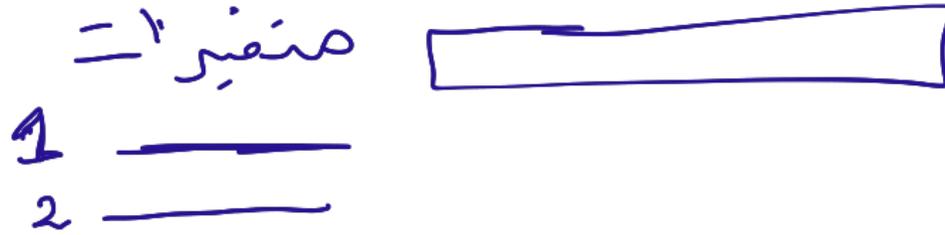
المتغيرات تتم ترتيبها (الفصل) من خلال Tab او فاصلة

هل المتغيرات موجودة في البداية

الرمز المستخدم

وتتم عدد الصفوف المتباينة

Step 3



- The data starts on line 2, with each line representing one participant (or one case), and we want to import all the cases. You can also import the first X cases or a random percentage of the data.

الحاله الاولى تبدأ من هنا
كيف تمثل الحالة حسب الصفوف

تتم بعد الحالات التدرجيه
سيكون الرصا

Text Import Wizard - Delimited Step 3 of 6

The first case of data begins on which line number?

How are your cases represented?

Each line represents a case

A specific number of variables represents a case:

How many cases do you want to import?

All of the cases **كل الحالات**

The first cases. **اول عدد - من الحالات**

A random percentage of the cases (approximate): % **نسبه من الحالات**

Data preview

Name	Age	Gender	Marital Status	Address	Income	Income Cat
2	55	f	1 12	72.00	3.00	3
3	56	m	0 29	153.00	4.00	3
4	28	f	no answer	9	28.00	2.00 1

< Back **Next >** Finish Cancel Help

Step 4

في هذه الخطوة سنختار العوازل المناسبة ونحذف من البيانات

- This is where we can choose our delimiter and get rid of our extra spaces.

قوائم التجهيز المتقدمة

فاصل

المسافات البادئة والنهاية

Text Import Wizard - Delimited Step 4 of 6

Which delimiters appear between variables?

Tab Space
 Comma Semicolon
 Other:

What is the text qualifier?

None
 Single quote
 Double quote
 Other:

Leading and Trailing Spaces

Remove leading spaces from string values
 Remove trailing spaces from string values

Data preview

Age	Gender	Marital St...	Address	Income	Income C...	Job Cate...
55	f	1	12	72.00	3.00	3
56	m	0	29	153.00	4.00	3
28	f	no answer	9	28.00	2.00	1
24	m	1	4	26.00	2.00	1
25	m	no answer	2	23.00	1.00	2
45	m	0	9	76.00	4.00	2
44	m	1	17	144.00	4.00	3
46	m	no answer	20	75.00	4.00	3
41	m	no answer	10	26.00	2.00	2
29	f	no answer	4	19.00	1.00	2
34	m	0	0	89.00	4.00	2
55	f	0	17	72.00	3.00	1
28	m	0	9	55.00	3.00	1

< Back Next > Finish Cancel Help

Step 5

عَلَيْكَ أَنْ تَتَّعَرَّضَ لرسالة تحذير حول خطأ في أسماء المتغيرات

- You might have received a warning message regarding invalid variable names. It's important to note that there are some limitations to variable names.
هناك بعض القيود لاسماء المتغيرات
 - Variable names can be up to 32 characters long. 32 حرف
سبعون حرفاً
 - Variable names can only include alphanumeric characters (letters and numbers), non-punctuation characters (like a dash - or an underscore _), and a period .).
الاسم فقط كيتوي على حروف وارقام
 - No spaces are allowed in variable names. مسافة، فراغات
 - Variable names cannot end with a period . or an underscore _.
 - There are some reserved keywords you can't use as variables, such as AND, NOT, OR, etc. ادوات الربط لا يمكن استخدامها
 - Variable names must be unique. لا تتشابه فقط او -
- الاسماء يجب ان تكون مميزة

Specifications for variable(s) selected in the data preview

Variable name:

Age

Original name:

Age

Data format:

Automatic

Percent

Data pr

Age	Gender	MaritalSt...	Address	Income	IncomeC...	JobCateg...
55	f	1	12	72.00	3.00	3
56	m	0	29	153.00	4.00	3
28	f	no answer	9	28.00	2.00	1
24	m	1	4	26.00	2.00	1
25	m	no answer	2	23.00	1.00	2
45	m	0	9	76.00	4.00	2
44	m	1	17	144.00	4.00	3
46	m	no answer	20	75.00	4.00	3
41	m	no answer	10	26.00	2.00	2

Text Wizard

دوره لوبیا، اسامی المتغيرات منها خط غم قصيره

Invalid variable names for this application have been found and changed.

OK

Step 6

بعد الانتهاء من كل الخطوات بعضنا سيار لحفظ الملف
بصيغة TWP F

- Finally, your data is imported. You're given the option to save the file format as a TextWizard Predefined Format file. This is particularly useful if you have multiple files to import with the same formatting.

Text Import Wizard - Step 6 of 6

You have successfully defined the format of your text file.

Would you like to save this file format for future use?

Yes No

Would you like to paste the syntax? Cache data locally

Yes No

Press the Finish button to complete the text import wizard.

Data preview

Age	Gender	MaritalSt...	Address	Income	IncomeC...	JobCateg...
55	f	1	12	72.00	3.00	3
56	m	0	29	153.00	4.00	3
28	f	no answer	9	28.00	2.00	1
24	m	1	4	26.00	2.00	1
25	m	no answer	2	23.00	1.00	2
45	m	0	9	76.00	4.00	2
44	m	1	17	144.00	4.00	3
46	m	no answer	20	75.00	4.00	3
41	m	no answer	10	26.00	2.00	2
29	f	no answer	4	19.00	1.00	2
34	m	0	0	89.00	4.00	2

< Back Next > **Finish** Cancel Help

حده الخطوة
مفيد في حال
استيراد
عدد من الملفات
كأنه التسيق