

Basic Data Analysis Course on Stata

Introduction to Stata

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Directory management

- To check the present working directory:

```
pwd
```

- To change the current working directory:

```
cd "E:\\"
```

- To make a new directory inside the current working directory:

```
mkdir "E:\StataClass1"
```

- To make the newly created directory as working directory:

```
cd "E:\StataClass1"
```

Reading a Stata data file

- Reading a data file from a particular location:

```
use "E:\bd_individual.dta", clear
```

- Reading a data file from a working directory:

```
use bd_individual.dta, clear
```

Stata/MP 17.0 - D:\STATA Course\Stata file\bd_individual.dta

File Edit Data Graphics Statistics User Window Help

Open... Ctrl+O

Open data subset

Save Ctrl+S

Save as... Ctrl+Shift+S

View...

Do...

Filename...

Change working directory...

Log

Import

Export

Print

Example datasets...

Recent files

Exit

ASUS\AppData\Local\Temp\STD463c_000000

"D:\STATA Course\Stata file\bd_individual.dta"

63 obs)

ASUS\AppData\Local\Temp\STD463c_000000

"D:\STATA Course\Stata file\bd_individual.dta"

Course\Stata file\bd_individual.txt not

r(601);

. use "D:\STATA Course\Stata file\bd_individual.dta"

.

do "C:\Users\ASUS\AppData\Local\Temp\STD463c_000000.tmp"

Variables

Filter variables here

Name	Label
caseid	case identification
v001	cluster number
v002	household number
v003	respondent's line number
v004	ultimate area unit
v005	women's individual sample weight (6 decimal places)
v008	date of interview (cmc)
v010	respondent's year of birth
v011	date of birth (cmc)

Properties

Variables

Name

Label

Type

Format

Value label

Notes

Data

Frame

default

Filename

bd_individual.dta

C:\Users\ASUS\OneDrive\Desktop\STATA Course\Previous slide

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Reading a Stata data file from a website

```
use http://www.stata-press.com/data/r14/systolic, clear  
  
webuse query  
  
webuse lifeexp  
  
webuse apple  
  
webuse set http://www.zzz.edu/users/~sue
```

Importing data files

- We can read dataset in .csv or .txt format, by using the following commands:

```
insheet using bd_individ.csv, clear  
insheet using bd_individ.txt, clear
```

- To read an excel file we will use the following command:

```
import excel bd_individ.xls, ///  
sheet("Sheet1") firstrow clear
```

- Here, firstrow means we can use variable names contained in the first row of the excel file as the variable names of the Stata file.

The screenshot shows the Stata/MP 17.0 interface. The title bar reads "Stata/MP 17.0 - D:\STATA Course\Stata file\bd_individual.dta". The menu bar includes File, Edit, Data, Graphics, Statistics, User, Window, and Help. The "File" menu is open, showing options like Open..., Save, and Import. A red arrow labeled '1' points to the "Import" option. Another red arrow labeled '2' points to the "Variables" list on the right side of the screen.

File Edit Data Graphics Statistics User Window Help

Open... Ctrl+O

Save Ctrl+S

Save as... Ctrl+Shift+S

View...

Do...

Filename...

Change working directory...

Log

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Export

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Example datasets...

Recent files

Exit

ASUS\AppData\Local\Temp\STD463c_00000
3 "D:\STATA Course\Stata file\bd_individual.dta"
53 obs)

ASUS\AppData\Local\Temp\STD463c_00000
Excel spreadsheet (*.xls; *.xlsx)
Text data (delimited, *.csv, ...)
SPSS data (*.sav)
SAS data (*.sas7bdat)
Text data in fixed format
Text data in fixed format with a dictionary
Unformatted text data
SAS XPORT Version 8 (*.v8xpt)
SAS XPORT Version 5 (*.xpt)
Federal Reserve Economic Data (FRED)
Haver Analytics database
ODBC data source
dBase (*.dbf)

Variables

Filter variables here

Name	Label
caseid	case identification
v001	cluster number
v002	household number
v003	respondent's line number
v004	ultimate area unit
v005	women's individual sample weight (6 decimal places)
v008	date of interview (cmc)
v010	respondent's year of birth
v011	date of birth (cmc)

Properties

Variables

Name
Label
Type
Format
Value label
Notes

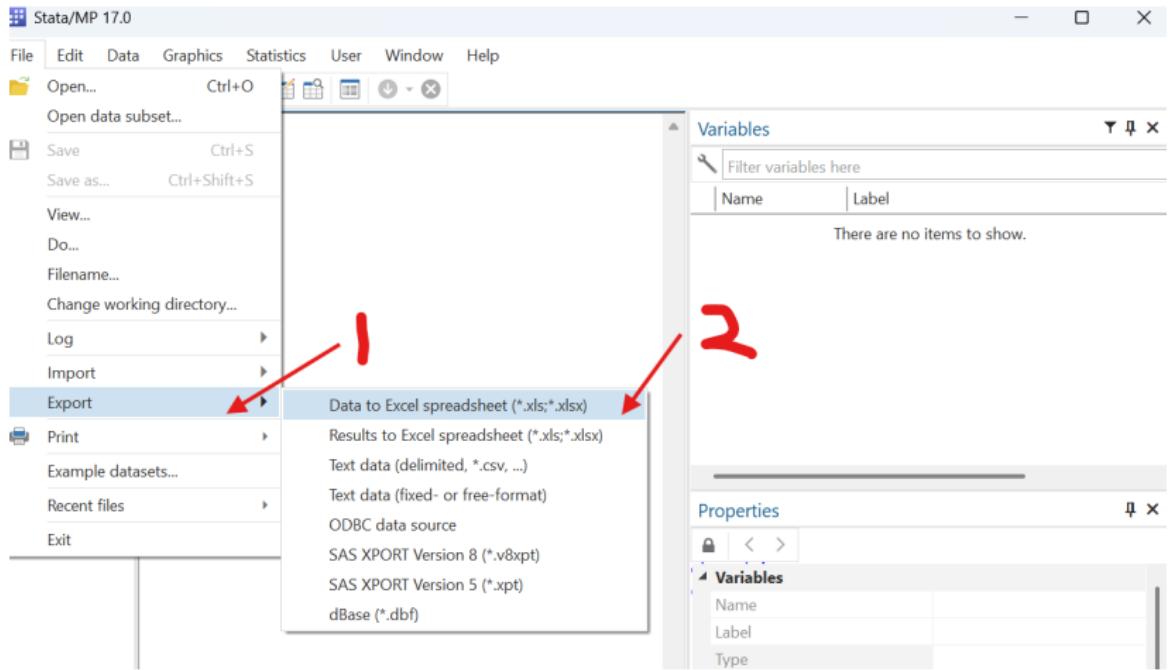
Exporting data files

- Often, we need to save the entered dataset as .csv or .txt format, so that it can be read in different software.
- To create such a .csv file, we have to export our data as follows:

```
outsheet using "E:\bd_individ.csv", comma nolabel replace
```

- Here, comma is the delimiter, nolabel means we want the values of the labeled variables as outputs, not the labels themselves, replace replaces any previous file in the same name.
- To export the data into .txt format we can use:

```
outsheet using "E:\bd_individ.txt", nolabel replace
```



Exporting data files

- If we want it to save the data in excel format, then we can write the following syntaxes:

```
export excel using bd_individ.xls, ///
firstrow(variables) nolabel replace
```

- Here, firstrow(variables) indicates we want to save the variable names into the first row of the excel file.

Entering data into Stata

- You can enter data into Stata using **Graphical User Interface (GUI)** by clicking the Edit button or by typing edit in the command window.
- Also, we can use a do file to enter data by writing the following syntaxes:

```
input hhid sex str10 location
10030 1 urban
10031 0 rural
10032 1 rural
end
```

where hhid and sex are numeric variables and location is string variable.

- For any string variable we need to specify the maximum number of characters the string will have using str10, where 10 indicates that location can have maximum characters 10.

Entering data using Data Editor

- Now enter the previous data.

Data editor

- You are allowed to enter, view, or edit your data in “data editor”. It looks like a spreadsheet.
- Typically, variables are listed across the top, and cases are listed down the side.
- To just have a view of your data, you need to type the command `browse` in command windows; in the browse mode you cannot change your data.
- To enter or edit your data you need to type `edit` which will take you to the edit mode.

Do file

- A do file contains a list of Stata commands.
- The do file can be created using Stata's do file editor.

THANK YOU