Introduction to EViews

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Introduction to EViews

The Basics: EViews Desktop, Workfiles and Objects

Note: Data and Workfiles for examples in this chapter are:
- ✓ Data: **Data.xlsx**
- ✓ Results: **Results.wf1**

Introduction to EViews

What is EViews?

- EViews is an easy-to-use statistical, econometric, and economic modeling package.

- There are three ways to work in EViews:

  > Graphical user interface (using mouse and menus/dialogs).
  > Single commands (using the command window).
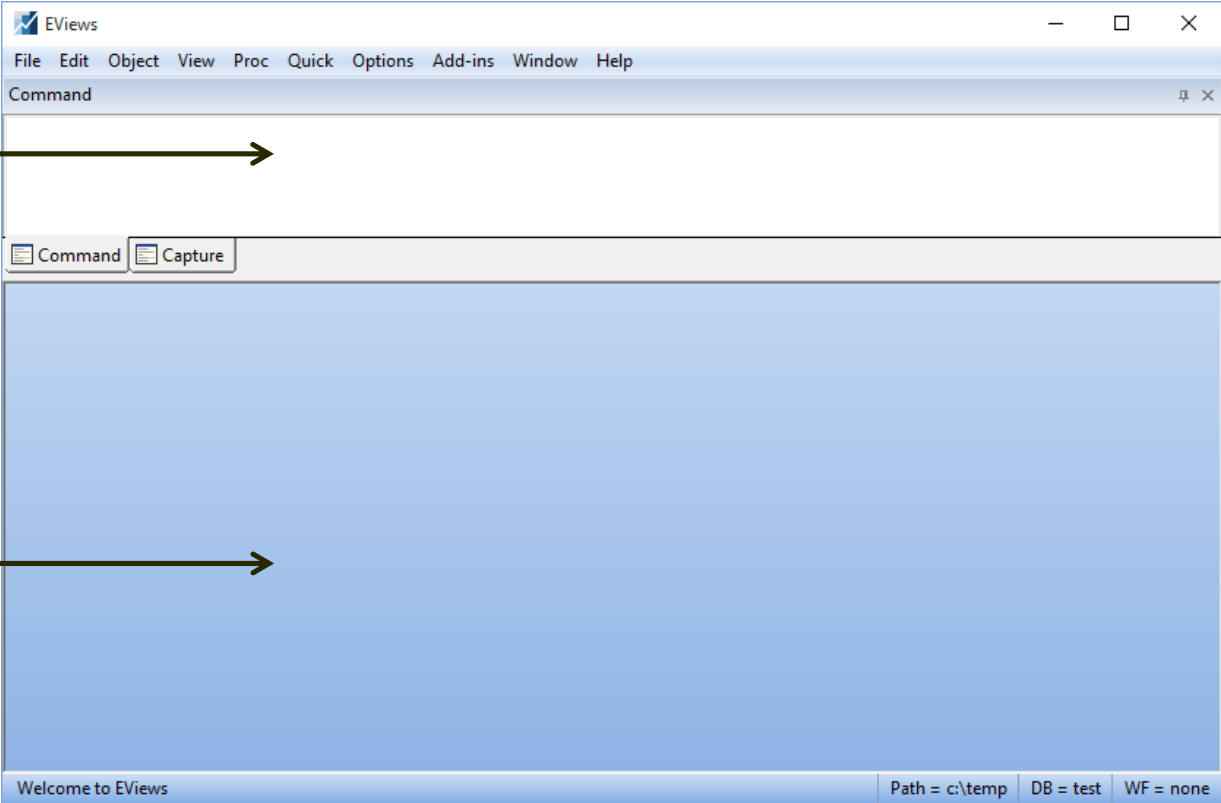 > Program files (commands assembled in a script executed in batch mode).

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EViews Desktop

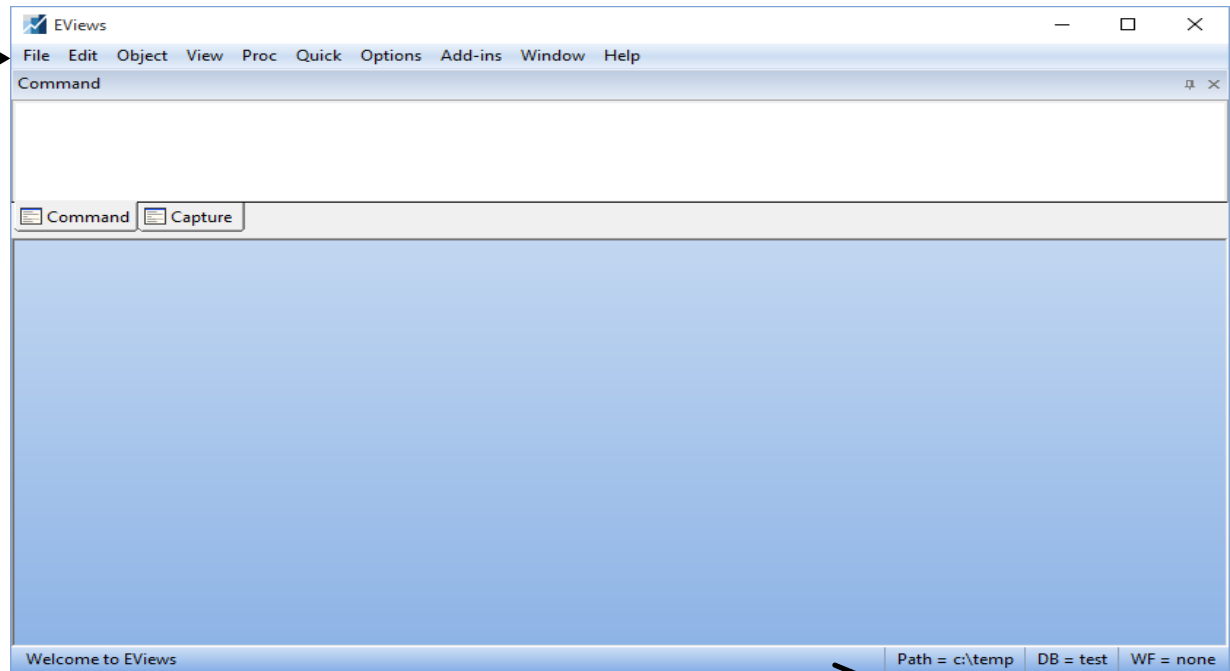**Command Window**

Object Window/ Work Area

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EViews Desktop Details

Main Menu →

Note: Path/Database/Workfile
can be changed by double-clicking in each.

Path/directory   **Database**   **Workfile**

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EViews Workfile and Objects
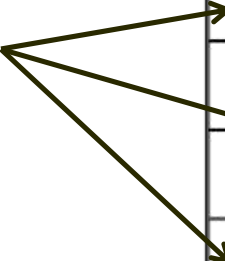
» EViews does NOT open up with a "blank" generic document (unlike Word, Excel, etc.).

» EViews documents ("workfiles") need to be created and are not generic (they will contain information about your data, etc.).

» EViews is an "object"- oriented program. Objects are collections of information related to a particular analysis (series, groups, equations, graphs, tables).

» Workfiles are holders of these "objects".

Object Types

Series, Groups and Equations are the most common objects in EViews.

abc	Alpha	P	Pool	[lh]	Sym
β	Coef	[8]	Rowvector	S	System
=	Equation	↔	Sample	🔢	Table
F	Factor	#	Scalar	TXT	Text
📊	Graph	✉	Series	map	Valmap
G	Group	▤	Spool	var	Var
Z	Logl	SS	Sspace	[8]	Vector
▦	Matrix	str	String		
M	Model	[ab]	Svector		

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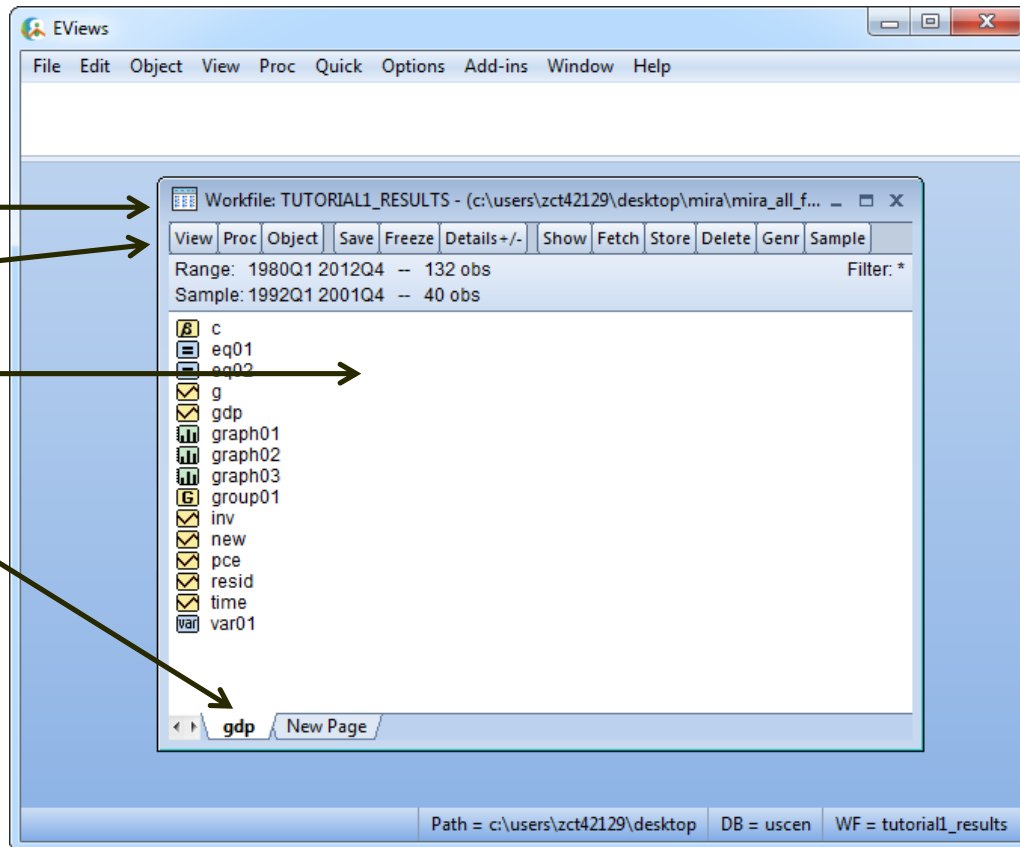
EViews Workfile

Workfile title bar

Workfile tool bar

Workfile Window

Workfile:

- ✓ Contains at least one page
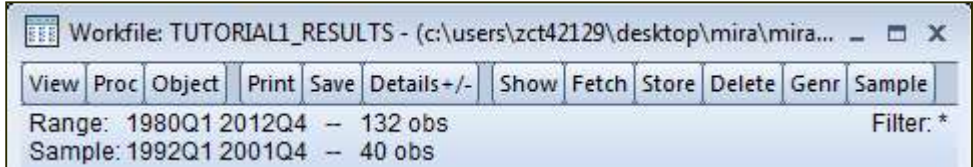- ✓ Each page contains a list of objects on that page

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EViews Workfile (cont'd)

Name of the workfile
(Tutorial1_results in this example)

Structure of the workfile

❑ The data in this example is dated and has quarterly frequency covering the period from 1980 to 2012.

❑ **Range:** shows the entire range of the data in the workfile. Here the range is from Q1 1980 to Q4 2012

Workfile: TUTORIAL1_RESULTS - (c:\users\zct42129\desktop\mira\mira... _ ☐ X

View | Proc | Object | Print | Save | Details+/- | Show | Fetch | Store | Delete | Genr | Sample

Range: 1980Q1 2012Q4 -- 132 obs   Filter: *
Sample: 1992Q1 2001Q4 -- 40 obs

❑ **Sample:** This is the part of data we are currently working with. In this example, the sample runs from Q1 1992 to Q4 2001.

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EViews Workfile and Objects

- This screenshot shows a list of **Objects** in the workfile.

- It is color-coded by **Object** type:
  - ✓ Yellow icons are data objects
  - ✓ Blue icons are estimation objects
  - ✓ Green icons are view objects (tables, graphs, etc...)

- Double clicking on one of these Object icons will open it up.

- Each **Object** has its own menu.

- Once an object is open, the menus in EViews change to represent the features available for that object.
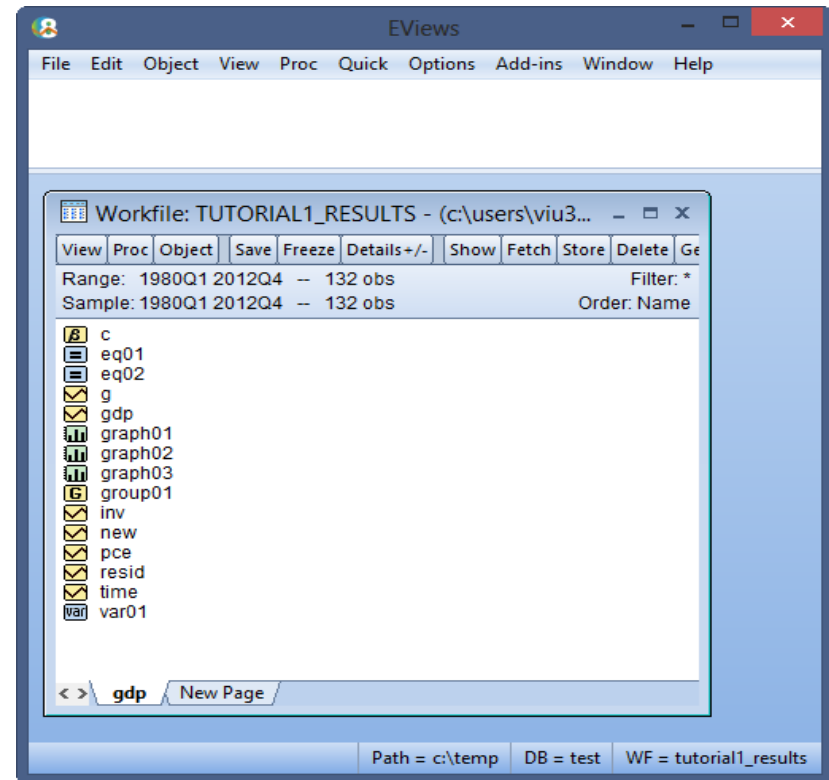
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EViews Workfile and Objects (cont'd)

- EViews provides you with a more detailed look of the objects in your workfile.

- For the "**Details**" view, Click on **View → Details +/-** on the workfile toolbar (or double click the Details+/- button on the workfile toolbar).

- The view changes as shown here.

- Each object now has a separate column in the details view.

- You may sort the objects by an attribute (Name, Type, etc.) by clicking on the column header.

- You can also resize or drag the columns which allows you to alter their position and width.
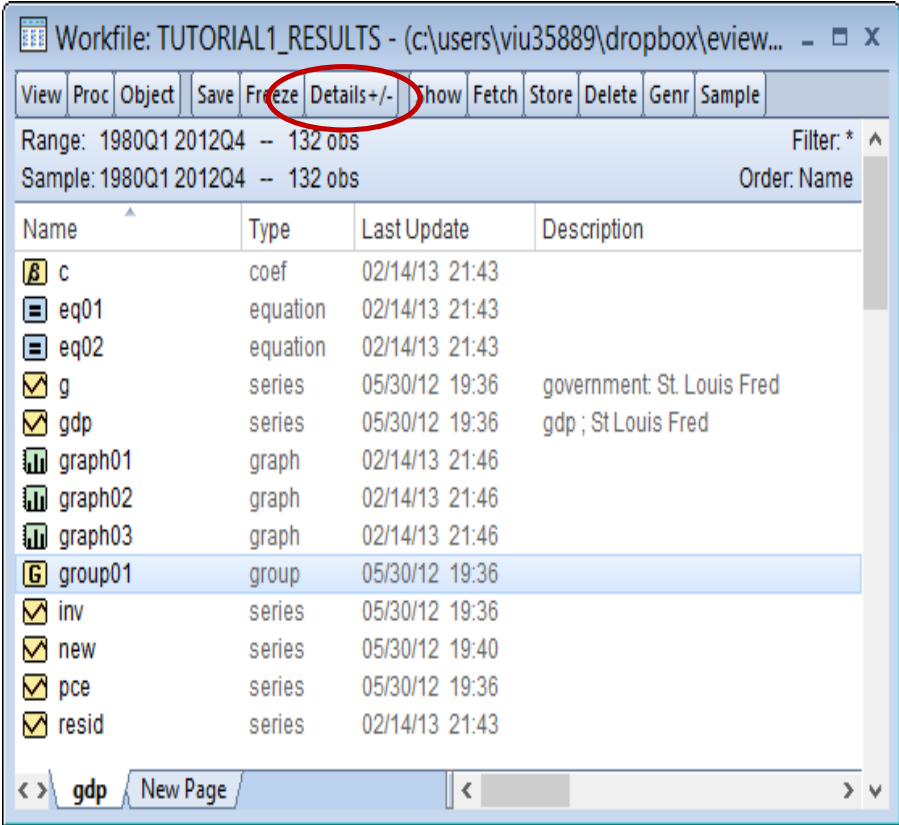
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The Object Window

Main menu →

Workfile Toolbar →

Object Toolbar
(in this example,
equation toolbar)

Object Window
(in this example,
equation window)

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The Series Object

- This is the main data object.

- gdp - has a yellow icon with a little line graph in it.

- It contains one column of data.

- Opening a series will reveal a spreadsheet view with a single column showing the data in the series.
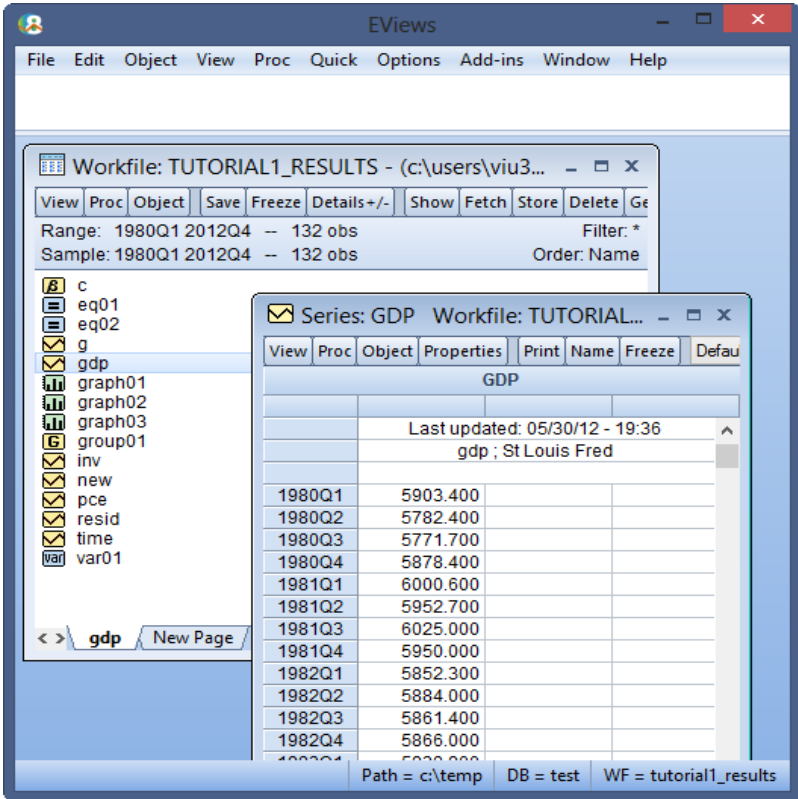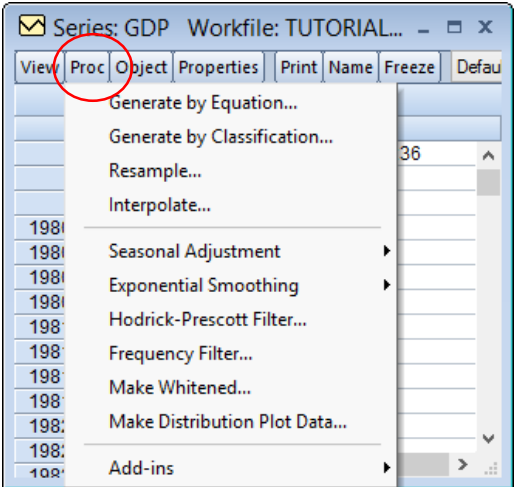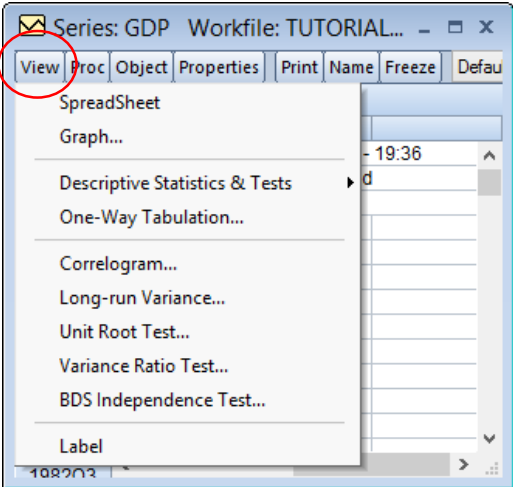
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The Series Object (cont'd)

To open a Series

1. **Double click** on the series.
2. Once a series is open, you can click on **View** and **Proc** menus in the workfile to see available actions. Since a Series is a single column of data, only actions for a single column of data are available (views and tests).

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The Group Object

- This is a collection of series objects.

- **G** group01 - has a yellow icon with a capital G.

- It contains multiple columns of data.

- Opening a group will display a spreadsheet view with multiple columns showing the data in each series in the group.
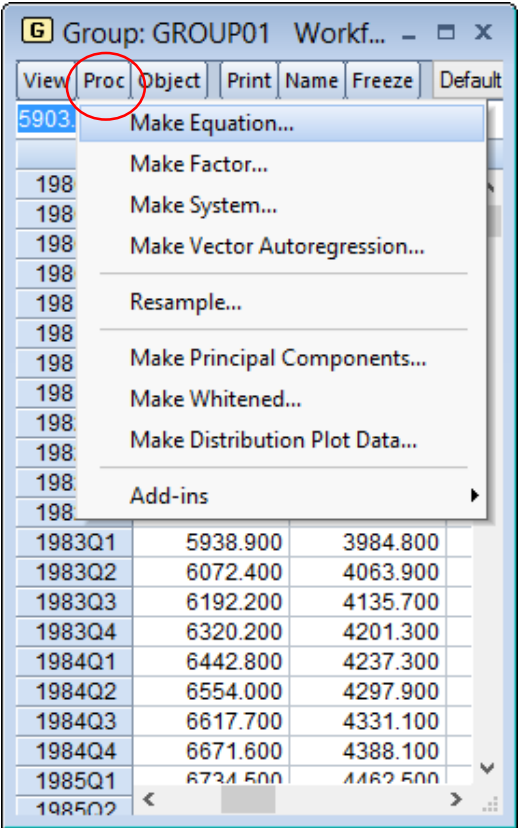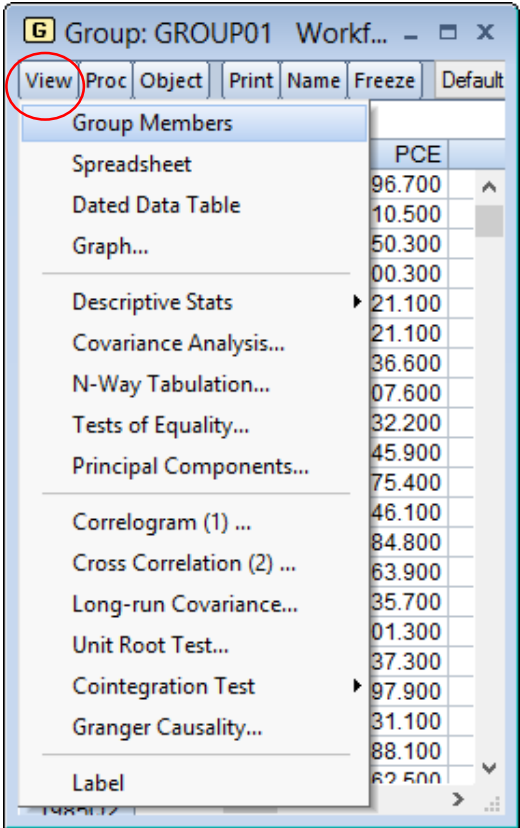
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The Group Object (cont'd)

To open a Group

1. Double click on [G].

2. Once a Group is open, you can click on **View** and **Proc** menus to see available actions. Actions that require multiple columns of data are now available (views and tests).

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The Equation Object

- This is a single equation estimation object.

- ▤ eq01 -- has a blue icon with an equal (=) sign.

- This is the main estimation object in EViews.

- Opening an equation will reveal the main results of the estimation.


```
Equation: EQ01   Workfile: TUTORIAL1_RESULTS::gdp\     _ □ X

View  Proc  Object  |  Print  Name  Freeze  |  Estimate  Forecast  Stats  Resids

Dependent Variable: LOG(GDP)
Method: Least Squares
Date: 02/14/13   Time: 21:43
Sample (adjusted): 1980Q1 2012Q1
Included observations: 129 after adjustments
```

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	8.673003	0.006706	1293.407	0.0000
TIME	0.007253	9.06E-05	80.09369	0.0000

|				
R-squared	0.980587	Mean dependent var		9.137216
Adjusted R-squared	0.980434	S.D. dependent var		0.273823
S.E. of regression	0.038302	Akaike info criterion		-3.671257
Sum squared resid	0.186313	Schwarz criterion		-3.626919
Log likelihood	238.7961	Hannan-Quinn criter.		-3.653241
F-statistic	6415.000	Durbin-Watson stat		0.041724
Prob(F-statistic)	0.000000			

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The Equation Object (cont'd)

To open an Equation Object

1. Double click on the ▤ .
2. Once an Equation is open, you can click on **View** and **Proc** menus to see available actions. Some of the items in the **View** and **Proc** menus will depend on the type of Equation that was estimated.
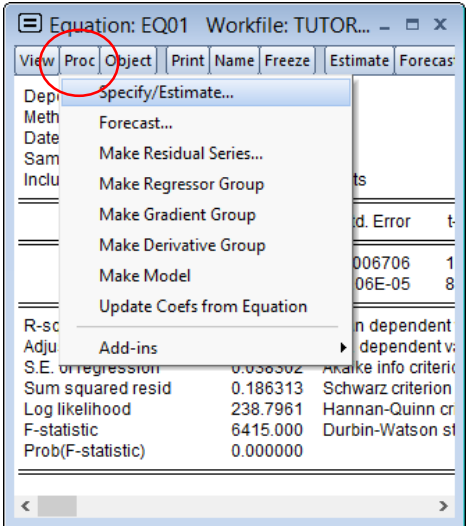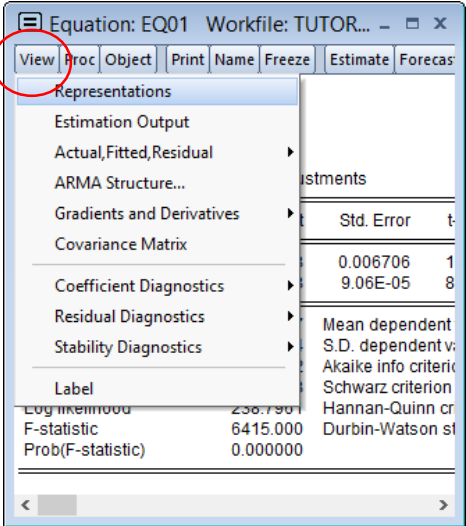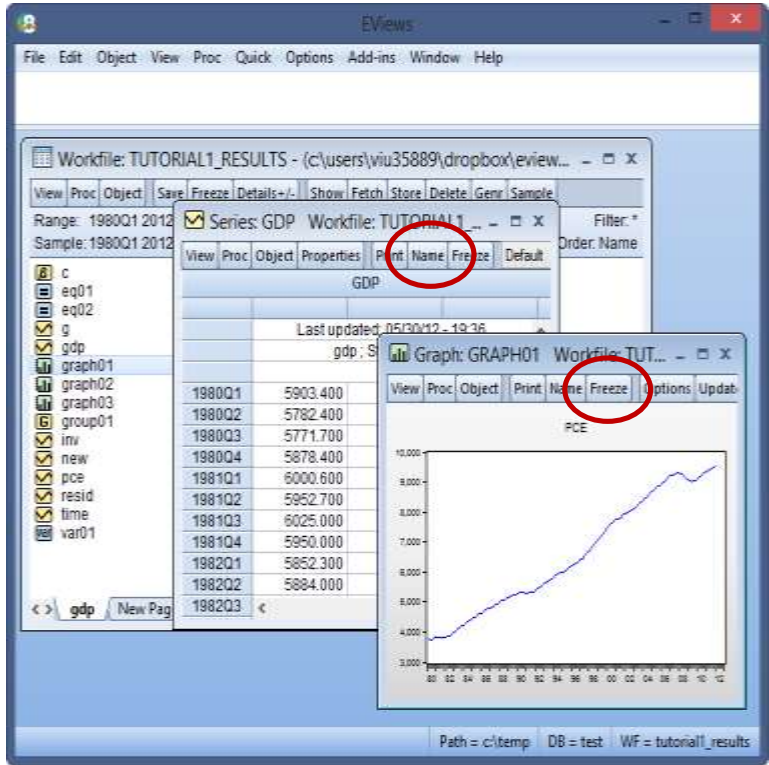

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View Objects

- This These objects hold "views" of data or estimation objects.

- graph01 - has a green icon.

- It is used to "freeze" a view of another object in time.

To create this view

- Press the **Freeze** button on another object (**gdp** series, for example).

- Use the **Name** button to save it in the workfile.

- Click **OK**.

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Commands

- The command pane provides a scrollable record of the commands typed.


```
                                    EViews                        _ □ ×
File  Edit  Object  View  Proc  Quick  Options  Add-ins  Window  Help
show d(gdp)
show @pc(gdp)
show @pch(gdp)
show @pca(gdp)
show @cummax(gdp)
show @cumsum(gdp, "1990 2001")
```

- You can scroll up to view previously executed commands.

- If you hit **Enter** in any previous lines, EViews will copy the line where the cursor is and execute that command again.

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Commands (cont'd)

- To recall a list of previous commands in the order in which they were entered use "CTRL+UP". The last command in the list will display in the command window.

- Hold down the CTRL key and press UP arrow to display previous commands.

- For a record of the last 30 commands, press "CTRL+J".
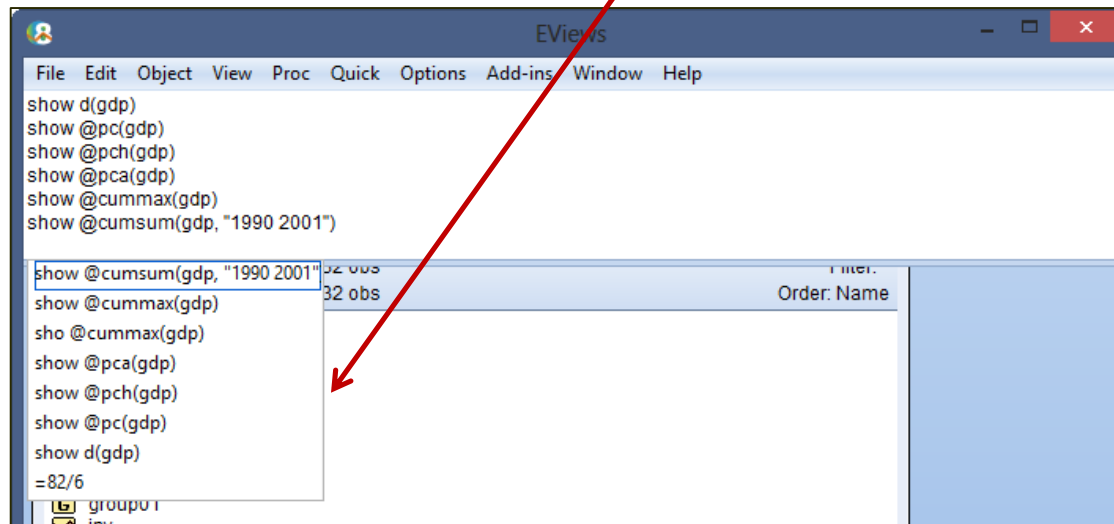
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THANK YOU