Simple Regression

Single equation regression estimation in EViews is performed using the *Equation Object*.

Etude de Cas:

We use the work file given 'Wage1'.

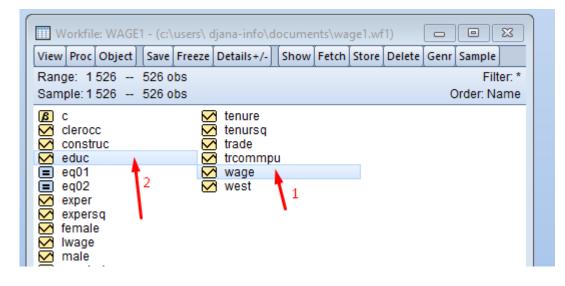
Given the following question: does the level of education influence an

individual's salary?

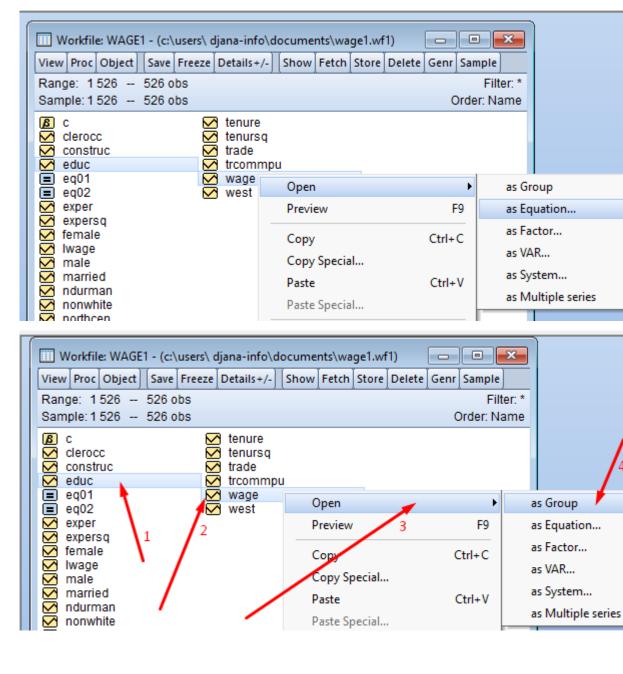
if this influence exists, how can it be quantified?

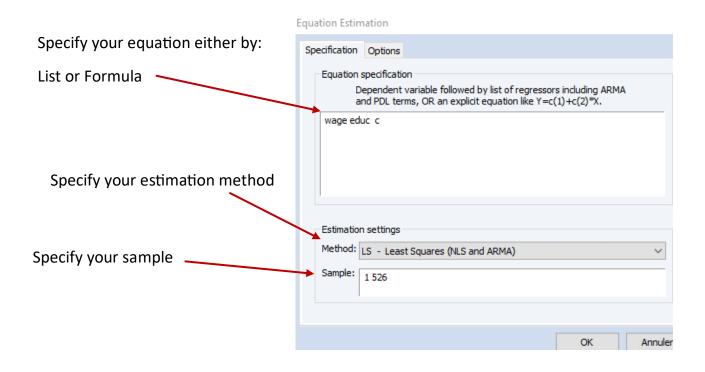
how to predict an individual's salary based on their level of education

1-Select variables



2- Open Contextual menu





3-Cli on OK.

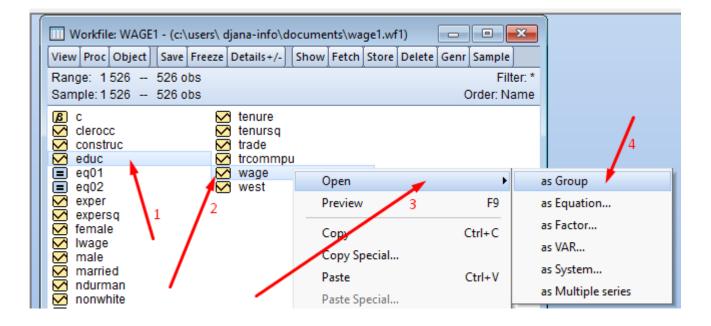
this window is displayed

iew [Proc] Object] [Pri	int Name Freeze	Estimate For	ecast Stats R	esids
Dependent Variable: V Nethod: Least Square Date: 05/05/24 Time: Sample: 1 526 ncluded observations	s 10:06			
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R-squared idjusted R-squared R.E. of regression Sum squared resid .og likelihood -statistic	0.164758 0.163164 3.378390 5980.682 -1385.712 103.3627	Akaike info cr Schwarz crite	ent var iterion rion in criter.	5.896103 3.693086 5.276470 5.292688 5.282820 1.823686

4- save/name simple regression equation (S-regression)

Workfile: WAGE1 - (c:\users\ djana-info\documents\wage1.wf1)								
View Rang	Equation: UNTITLED Workfile: WAGE1::Wage1							
Samp	View Proc Object Print Name Freeze Estimate Forecast Stats Resi	ids						
	Dependent Variable: WAGE Method: Least Squares Date: 05/05/24 Time: 10:33 Sample: 1 526 Included observations: 526 Object Name Va Va Name to identify object S-regression R-squared Adjusted F S.E. of reg Sum squa Log likelin F-statistic Prob(F, sta 24 characters maximum, 16 or fewer recommended Display name for labeling tables and graphs (optional) Cancel 2 3	Prob. 0.0000 0.1871 396103 593086 276470 292688 282820 323686						

5- Open variables (educ, wage)



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7		11.25	000		18							
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9		3.600	000		12							
10)	18.18	000		17							
11		6.250	000		16							
12	2	8.130	000		13							
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6- cli on View→Graph

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	Graph	8						
	Descriptive Stats	• 16						
	Covariance Analysis	18 12						
	N-Way Tabulation	12						
	Tests of Equality	17						

7- Select (1,2,3, 4) and clic on 5 (Options)

Vie Group: UNTITLED	Workfile: WAGE1::Wage1			8
Graph Options 1	2			5 ×
Option Pages Graph Type Basic type Constraints Const	Graph type General: Basic graph Specific: Line & Symbol Bar Spike Area Area Band Mixed Dot Plot Error Bar High-Low (Open-Close) Scatter XY Line XY Area Pie Distribution Quantile - Quantile Boxplot	Details Graph data: Fit lines: Axis borders: Multiple series: 3	Raw data Regression Line None Single graph	y Options
Undo Page Edits			ОК	Cancel
25 <				> .::

8-We get the next window: