

Exercise 1

Social Inequality

Deadline: Please upload your assignment by Tuesday (**February 13, 5 p.m.**) Upload one file only (pdf). Include the R-code into the Appendix. Do not forget to cite the data. Further, integrate at least one reading into your discussion (see moodle). Use APA-style when you cite the reading(s). Label all figures and tables.

Exercise 1.1 (data preparation).

Proceed as follows:

- DATA00: Load the ISSP-data from 2019.¹
- DATA01: Select a country of your choice.
- DATA02: Keep the variables of interest (household income for country of interest, number of adults, number of persons in the household, age).
- DATA03: Delete all cases with missing information on your key variables of interest.
- Generate the new variables that you require for your investigation (see Appendix).
- Report the original and final sample size (analytical sample) for the country of choice.
- Make yourself family with the data: How large is the share of older persons (age 60 and older) in the population. How large is the household size on average?

Exercise 1.2

- a) Calculate the equalized median income (based on modified OECD-scale). How large is the share of persons at risk of poverty (defined as 60 % of the median net equalized household income)?
- b) You are adopting an income orientated and relative poverty measure for your investigation. Is that a suitable approach for your country of choice? (max. 200 words)

Exercise 1.3

- a) Do you think that age matters for poverty in your country of choice? Formulate a testable hypothesis.
- b) Calculate the at-risk-of-poverty ratio by age. Distinguish the following age groups: 20-39, 40-59, 60 and older.

Exercise 1.4 (optional)

- a) How large is the at-risk-of-poverty ratio by number of children in the household? Distinguish those without children, with one or two and those with three and more children
- b) There is a debate of whether national or subnational units should be used to define poverty. Is this a relevant consideration for your country of choice? How do patterns differ if you use different levels for rural and urban areas? Please distinguish only urban and rural places.

¹ https://www.gesis.org/en/issp/home

Appendix

Variables in ISSP 2019

	Variables in ISSP 2019				
Variable	Label				
Country	Country ²				
AT_INC	household income	Austria			
AU_INC	household income	Australia			
BG_INC	household income	Bulgaria			
CH_INC	household income	Switzerland			
CL_INC	household income	Chile			
CZ_INC	household income	Czech Republic			
DE_INC	household income	Germany			
DK_INC	household income	Denmark			
FI_INC	household income	Finland			
FR_INC	household income	France			
GB_INC	household income	Great Britain			
HR_INC	household income	Croatia			
IL_INC	household income	Israel			
IS_INC	household income	Iceland			
IT_INC	household income	Italy			
JP_INC	household income	Japan			
LT_INC	household income	Lithuania			
NO_INC	household income	Norway			
NZ_INC	household income	New Zealand			
PH_INC	household income	Philippines			
RU_INC	household income	Russia			
SE_INC	household income	Sweden			
SI_INC	household income	Slovenia			
SR_INC	household income	Suriname			
TH_INC	household income	Thailand			
TW_INC	household income	Taiwan			
US_INC	household income	United States			
VE_INC	household income	Venezuela			
ZA_INC	household income	South Africa			
HHADULT	Number of adults in HH				
НОМРОР	Number of persons in HH				
URBRURAL	Rural or urban ³				
AGE	Age of respondent				

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² 36. AU-Australia 40. AT-Austria 100. BG-Bulgaria 152. CL-Chile 158. TW-Taiwan 191. HR-Croatia 203. CZ-Czech Republic 208. DK-Denmark 246. FI-Finland 250. FR-France 276. DE-Germany 352. IS-Iceland 376. IL-Israel 380. IT-Italy 392. JP-Japan 440. LT-Lithuania 554. NZ-New Zealand 578. NO-Norway 608. PH-Philippines 643. RU-Russia 705. SI-Slovenia 710. ZA-South Africa 740. SR-Suriname 752. SE-Sweden 756. CH-Switzerland 764. TH-Thailand 826. GB-Great Britain 840. US-United States 862. VE-Venezuela

³ 1 A big city 2 The suburbs or outskirts of a big city 3 A town or a small city 4 A country village 5 A farm or home in the country

New Variable

Name	Label	Realizations	Туре
	Number of persons in		
TOTAL	household	0,	Numeric
	Number of adults in		
ADULT	household	0,	Numeric
	Number of adults		
OTHER	minus 1	0,	Numeric
	Number of children in		
	household [TOTAL-		
KIDS	ADULT]	0,	Numeric
	household net income		
INCOME01	in local currency	0,	Numeric
	Equivalent net		
	household income in		
INCOME02	local currency 4 5	0,	Numeric
AGE_C	Age categorized	• 20-39	
		• 40-59	
		60 and older	Factor
POOR	Poverty measure	Not poor	
		• Poor	Factor
		 Rural 	Factor
URBAN	Rural or urban?	 Urban 	
	Number of children in	 0 children 	
KIDS_C	household	• 1 - 2 children	Factor
		• 3 and more children	

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⁴ The weights for the modified equivalent scale are: 1 First adult; 0.5: Further adults; 0.3: each child. See: https://www.oecd.org/economy/growth/OECD-Note-EquivalenceScales.pdf

⁵ Note that the data only includes income brackets. For each income bracket, the midpoint of the bracket is given in the data. Use the mid-point of the interval for your calculations. Note also that the ISSP is not a household survey. Household weights should be used to make the analysis representative on the household level. We ignore that aspect for our analysis.