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Leibniz Institute
for the Social Sciences

Inhouse Training (online) - Eurofound
Working with EU-LFS and EU-SILC
April 11 – 12, 2024

fdz
German
Microdata Lab

Day 1 - EU-LFS

Practical Training Session I: Data Structure & Data Management

Exercise 1 (Beginners) – Replication of published Eurostat tables (see tables next page)

1a) **Employment rate of persons (aged 18-64) in single parent households**
- *Optional: Emp. rate of persons (aged 18-64) in couple with children hh; Emp. rate of persons (aged 18-64) in all hh*

1b) **Number of couple households with children where the age of the youngest child is less than**

Aim: **Basic understanding of the LFS data structure (age, age_grp; switch of unit of analysis, weights)**

Data: yearly file 2021 (release 2022)

Variables needed
- Country   Country
- Age   Age in single years
- age_grp   Age groups (in case a country doesn't release age in years)
- hhcomp   Household composition
- hhageyg   Age of the youngest child in the household
- hhlink   Relationship to the reference person in the household
- ilostat   ILO employment status
- coeffhh   Units of analysis persons (within household context)
- coeffhhavg   Units of analysis: households
- hhcomp   Household composition

Step 0   Open data; yearly file 2021

(a)

Step 1   Create a new variable age_comb which combines age & age_grp

Step 2:   Create a new employment variable (empl: 1 employed; 0 others) using ilostat

Step 3:   Tabulate country by empl for people age (18-64) living in single parent households (hhcomp), use the appropriate weight

Step: 5   Compare your results with the published figures (see below). Do they match? If not, for which countries there are deviations?

(b)

Step 1   Tabulate country for couple hh with children (hhcomp) where the youngest child is less than 6 years old (hhageyg),switch to hh-level (hhlink), use the appropriate weight.

Step 2   Compare your results with published figures

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Table 1a: Replication of a published table

Data extracted on 07/03/2024 10:42:58 from [ESTAT]
Dataset: **Employment rate of persons by household composition (%)**
Time frequency   Annual
Age class   From 18 to 64 years

	2021						
	Employment rate of persons (18-64 years) in						
	All hh	*own**	**single parent hh**	*own**	**couple with children hh**	*own**
Austria	74.7		Austria	76.8		Austria	84.4	
Belgium	68.5		Belgium	67.1		Belgium	85.5	
Bulgaria	71.2		Bulgaria	78.9		Bulgaria	83.6	
Switzerland			Switzerland			Switzerland		
Cyprus	74.7		Cyprus	71.3		Cyprus	84.3	
Czechia	78.0		Czechia	78.0		Czechia	80.8	
Germany	78.4		Germany	73.4		Germany	83.6	
Denmark	80.0		Denmark	78.2		Denmark	88.3	
Estonia	77.6		Estonia	83.9		Estonia	82.9	
Greece	60.5		Greece	71.1		Greece	76.0	
Spain	65.6		Spain	75.5		Spain	80.6	
Finland	76.1		Finland	73.5		Finland	84.8	
France	70.2		France	73.4		France	84.1	
Croatia	66.6		Croatia	79.3		Croatia	86.6	
Hungary	76.6		Hungary	86.4		Hungary	86.7	
Ireland	73.6		Ireland	67.9		Ireland	82.9	
Iceland			Iceland			Iceland		
Italy	61.0		Italy	70.5		Italy	73.9	
Lithuania	75.6		Lithuania	83.1		Lithuania	87.1	
Luxembourg	70.6		Luxembourg	80.6		Luxembourg	85.5	
Latvia	73.7		Latvia	77.8		Latvia	84.0	
Malta	78.1		Malta	68.7		Malta	86.2	
Netherlands	81.2		Netherlands	74.6		Netherlands	89.5	
Norway	79.3		Norway	72.4		Norway	89.7	
Poland	67.9		Poland	80.0		Poland	80.9	
Portugal	73.6		Portugal	86.0		Portugal	91.2	
Romania	65.2		Romania	74.1		Romania	77.5	
Sweden	79.1		Sweden	82.1		Sweden	89.5	
Slovenia	74.1		Slovenia	82.1		Slovenia	91.2	
Slovakia	72.6		Slovakia	87.2		Slovakia	85.5	

DE, IE: we are not allowed to use the data in the training

Exercise 1b: Replication of a published table

Data extracted on 16/03/2024 15:54:41 from [ESTAT]

Dataset: **Number of households by household composition (Couple with children) where age of the youngest child (1 000) is less than 6 years**

Last updated: 15/06/2023 23:00

Time frequency	Annual
Age of the child	Less than 6 years
Number of children	Total
Household composition	Couple with children
Unit of measure	Thousand households

TIME GEO (Labels)	2021
Austria	335.6
Belgium	439.6
Bulgaria	98.9
Croatia	73.2
Cyprus	37.5
Czechia	464.7
Denmark	221.6
Estonia	48.5
Finland	202.0
France	2,644.6
Germany	3,027.6
Greece	345.1
Hungary	347.6
Ireland	197.0
Italy	1,930.1
Latvia	55.2
Lithuania	99.1
Luxembourg	25.3
Malta	17.7
Netherlands	663.0
Norway	209.7
Poland	1,212.0
Portugal	301.0
Romania	415.2
Slovakia	192.7
Slovenia	77.2
Spain	1,410.7
Sweden	439.2