

APPENDIX A

Indicators in the dataset, short variable names and ranges.

Total population	
population	Should be strictly positive
Children	
children	Should be in the open interval (0, 1)
Youth	
youth	Should be in the open interval (0, 1)
Adult	
adults	Should be in the open interval (0, 1)
Elderly	
elderly	Should be in the open interval (0, 1)
Urban Population (% of total Population)	
urban	Should be in the open interval (0, 1)
Working Age Population	
working_age	Should be in the open interval (0, 1)
Dependency Rate	
d_rate	Should be strictly positive
Youth Dependency Rate	
dr_youth	Should be strictly positive
Old Age Dependency Rate	
dr_old	Should be strictly positive
Labor Force	
labor_force	Should be strictly positive and smaller than population
Labor Force Participation Rate	
lforce_r	Should be in the open interval (0, 1)
Female Labor Force Participation Rate	

lforce_fem	Should be in the open interval (0, 1)
Not in labor force or education rate among youth	
lforce_not	Should be in the open interval (0, 1)
Employment to Population Ratio	
etp_ratio	Should be in the open interval (0, 1)
Share of workers (aged 15-64) with more than one jobs in last week	
many_jobs	Should be in the open interval (0, 1)
Employment Rate	
employment	Should be in the open interval (0, 1)
Unemployment Rate	
unemployment	Should be in the open interval (0, 1)
Youth Employment Rate	
emp_y	Should be in the open interval (0, 1)
Youth Unemployment Rate	
unemp_y	Should be in the open interval (0, 1)
Wage employees	
waged	Should be in the open interval (0, 1)
Self-employed	
self	Should be in the open interval (0, 1)
Unpaid	
unpaid	Should be in the open interval (0, 1)
Employers	
employer	Should be in the open interval (0, 1)
Informal jobs	
informal	Should be in the closed interval [0, 1]
Formal jobs	
formal	Should be in the closed interval [0, 1]

Employed with missing formality information	
missing	Should be in the closed interval [0, 1]

Public sector employment	
public	Should be in the open interval (0, 1)

Agriculture	
agriculture	Should be in the open interval (0, 1)

Industry	
industry	Should be in the open interval (0, 1)

Services	
services	Should be in the open interval (0, 1)

Female in non-agricultural employment	
nonagri_fem	Should be in the open interval (0, 1)

Youth in non-agricultural employment	
nonagri_youth	Should be in the open interval (0, 1)

Mining and Public Utilities	
mining	Should be in the open interval (0, 1)

Manufacturing	
manufacturing	Should be in the open interval (0, 1)

Construction	
construction	Should be in the open interval (0, 1)

Wholesale/retail	
wholesale	Should be in the open interval (0, 1)

Transport & Communication	
transport	Should be in the open interval (0, 1)

Other services	
other	Should be in the open interval (0, 1)

Senior Officials	
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senior	Should be in the open interval (0, 1)
Professionals	
professionals	Should be in the open interval (0, 1)
Technicians	
technicians	Should be in the open interval (0, 1)
Clerks	
clerks	Should be in the open interval (0, 1)
Service and Market Sales	
service_sales	Should be in the open interval (0, 1)
Skilled Agriculture	
skilled_agri	Should be in the open interval (0, 1)
Craft Workers	
craft	Should be in the open interval (0, 1)
Machine Operators	
machine	Should be in the open interval (0, 1)
Elementary Occupations	
elementary	Should be in the open interval (0, 1)
Armed Forces	
armed	Should be in the open interval (0, 1)
Average weekly working hours	
working_hours	Should be in the open interval (0, 168)
Underemployment	
underemp	Should be in the open interval (0, 1)
Excessive working hours	
excess_h	Should be in the open interval (0, 1)
Earnings for wage workers per hour	
earnings_hour	Should be strictly positive and smaller than earnings_m

Earnings for wage workers per month	
earn_m	Should be strictly positive

Earnings for wage workers per month in agriculture	
earnings_agri	Should be strictly positive

Earnings for wage workers per month in industry	
earnings_ind	Should be strictly positive

Earnings for wage workers per month in service	
earnings_s	Should be strictly positive

No Education	
no_ed	Should be in the closed interval [0, 1]

Primary Education	
primary_ed	Should be in the closed interval [0, 1]

Secondary Education	
secondary_ed	Should be in the closed interval [0, 1]

Post Secondary Education	
ps_ed	Should be in the closed interval [0, 1]

APPENDIX B

Derived indicators and their definitions

Working Age Population	working_age
Should be equal to youth + adults	
Dependency Rate	d_rate
Should be equal to (children+elderly)/(youth+adults)	
Youth Dependency Rate	dr_youth
Should be equal to (children)/(youth+adults)	
Old Age Dependency Rate	dr_old
Should be equal to (elderly)/(youth+adults)	
Labor Force Participation Rate	lforce_r
Should be equal to labor_force/(population*working_age)	
Employment to Population Ratio	etp_ratio
Should be equal to (employment*labor_force)/(working_age*population)	

APPENDIX C

Groups of indicators checked in Check 3 (“Sums”).

children + youth + adults + elderly = 1

employment + unemployment = 1

emp_y + unemp_y = 1

waged + self + unpaid + employer = 1

informal + formal + missing = 1

agriculture + industry + services = 1

mining + manufacturing + construction + who..

senior + professionals + technicians + cler..

no_ed + primary_ed + secondary_ed + ps_ed =..

APPENDIX D

Indicators and their external comparison.

Comparison with WDI data

Total population	SP.POP.TOTL
Children	SP.POP.0014.T0.ZS
Elderly	SP.POP.65UP.T0.ZS
Urban Population (% of total Population)	SP.URB.TOTL.IN.ZS
Working Age Population	SP.POP.1564.T0.ZS
Labor Force	SL.TLF.TOTL.IN
Labor Force Participation Rate	SL.TLF.ACTI.ZS
Female Labor Force Participation Rate	SL.TLF.ACTI.FE.ZS
Not in labor force or education rate among youth	SL.UEM.NEET.ZS
Unemployment Rate	SL.UEM.TOTL.ZS
Youth Unemployment Rate	SL.UEM.1524.ZS

Comparison with ILO data

Agriculture
ECO_SECTOR_AGR

Industry
ECO_SECTOR_IND

Services
ECO_SECTOR_SER

Average weekly working hours
DF_YI_ALL_HOW_TEMP_SEX_OCU_NB

Underemployment
DF_KI_ALL_EES_LT35_NOC_RT

Excessive working hours
DF_KI_ALL_EES_TG48_NOC_RT

Earnings for wage workers per hour

DF_YI_ALL_EAR_HEES_SEX_OCU_NB

Earnings for wage workers per month

DF_KI_ALL_EAR_TEAR_NOC_NB

Earnings for wage workers per month in agriculture
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DF_YI_ALL_EAR_XEES_SEX_ECO_NB

Earnings for wage workers per month in industry

DF_YI_ALL_EAR_XEES_SEX_ECO_NB

Earnings for wage workers per month in service
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DF_YI_ALL_EAR_XEES_SEX_ECO_NB

APPENDIX E

Indicators checked in Check 5 (“Outliers”)

Total population
Dependency Rate
Youth Dependency Rate
Old Age Dependency Rate
Labor Force
Average weekly working hours
Earnings for wage workers per hour
Earnings for wage workers per month
Earnings for wage workers per month in agriculture
Earnings for wage workers per month in industry
Earnings for wage workers per month in service