



```

name: <unnamed>
log: E:\NYU Master\Semester 2\PADM-GP 2902 Regression and intro to econometrics
> \Final Project\Presentation Part Do File.smcl
log type: smcl
opened on: 18 Apr 2022, 22:30:46

```

```
1 . use "$datadir\20220324-DataCleaning.dta"
```

```
2 .
```

```
3 . sum gdpcap
```

Variable	Obs	Mean	Std. dev.	Min	Max
gdpcap	521	8722.309	13895.74	98.03187	102863.1

```
4 . return list
```

```
scalars:
```

```

      r(N) = 521
    r(sum_w) = 521
    r(mean) = 8722.309087229782
      r(Var) = 193091685.6177301
      r(sd) = 13895.74343522973
    r(min) = 98.03186798095703
    r(max) = 102863.09375
    r(sum) = 4544323.034446716

```

```
5 . replace gdpcap = r(mean) if gdpcap ==.
(10 real changes made)
```

```
6 . // replace missing values in gdpcap to their group mean (10 real changes made)
```

```
7 .
```

```
8 . sum frtl_rte
```

Variable	Obs	Mean	Std. dev.	Min	Max
frtl_rte	531	3.365119	1.716845	.939	8.667

```
9 . return list
```

```
scalars:
```

```

      r(N) = 531
    r(sum_w) = 531
    r(mean) = 3.365118922262317
      r(Var) = 2.947556780599
      r(sd) = 1.716845007739196
    r(min) = .9390000104904175
    r(max) = 8.666999816894531
    r(sum) = 1786.878147721291

```

```
10. replace frtl_rte = r(mean) if frtl_rte ==.
(0 real changes made)
```

```
11. // replace missing values in frtl_rte to their group mean (0 real changes made)
```

```
12.
```

```
13. sum lifeexp
```

Variable	Obs	Mean	Std. dev.	Min	Max
lifeexp	531	67.15366	10.01457	32.61156	82.97805

14. return list

scalars:

```

      r(N) = 531
r(sum_w) = 531
r(mean) = 67.15365892974221
r(Var) = 100.2916204406897
r(sd) = 10.01457040719619
r(min) = 32.6115608215332
r(max) = 82.97805023193359
r(sum) = 35658.59289169312

```

15. replace lifeexp = r(mean) if lifeexp ==.
(0 real changes made)

16. // replace missing values in lifeexp to their group mean (0 real changes made)

17.

18. sum co2_em

Variable	Obs	Mean	Std. dev.	Min	Max
co2_em	505	4.605212	6.485877	.0181349	58.52217

19. return list

scalars:

```

      r(N) = 505
r(sum_w) = 505
r(mean) = 4.605212292503012
r(Var) = 42.06659817517209
r(sd) = 6.485876823928441
r(min) = .0181349068880081
r(max) = 58.52217102050781
r(sum) = 2325.632207714021

```

20. replace co2_em = r(mean) if co2_em ==.
(26 real changes made)

21. // replace missing values in co2_em to their group mean (26 real changes made)

22.

23. tabstat pop_grwth gdpcap frtl_rte lifeexp co2_em, stat(n mean sd min max q) col(stat
>)

Variable	N	Mean	SD	Min	Max	p25	p50
> p75							
pop_grwth	531	1.597279	1.360082	-2.096943	10.39837	.5846527	1.519073
> 2.513898							
gdpcap	531	8722.309	13764.03	98.03187	102863.1	762.8839	2506.185
> 10227.75							
frtl_rte	531	3.365119	1.716845	.939	8.667	1.92	2.837
> 4.654							
lifeexp	531	67.15366	10.01457	32.61156	82.97805	61.18732	69.67949
> 74.60244							
co2_em	531	4.605212	6.324789	.0181349	58.52217	.5982311	2.278387
> 6.316496							

```

24.
25. sum2docx pop_grwth gdp_cap frtl_rte lifeexp co2_em using "$datadir\table1.docx", repl
> ace stats(N mean sd min(%9.0g) max(%9.0g) p25(%9.0g) median(%9.0g) p75(%9.0g)) title
> ("Descriptive Statistics")
summary statistics have been written to file E:\NYU Master\Semester 2\PADM-GP 2902 Reg
> resson and intro to econometrics\Final Project\table1.docx

26.
27. hist gdp_cap, freq normal title("Distribution of GDP Per Capita")
(bin=23, start=98.031868, width=4468.0462)

28. graph export "$datadir\DistributionGDP.png", replace
file E:\NYU Master\Semester 2\PADM-GP 2902 Regression and intro to econometrics\Final
Project\DistributionGDP.png saved as PNG format

29.
30. hist co2_em, freq normal title("Distribution of CO2 Emission")
(bin=23, start=.01813491, width=2.5436537)

31. graph export "$datadir\DistributionCO2.png", replace
file E:\NYU Master\Semester 2\PADM-GP 2902 Regression and intro to econometrics\Final
Project\DistributionCO2.png saved as PNG format

32.
33. gen lg_gdp_cap = log(gdp_cap)

34. gen lg_co2_em = log(co2_em)

35. gen int_gdpco2 = log(gdp_cap) * log(co2_em)

36.
37. hist lg_gdp_cap, freq normal title("Distribution of Log_GDP Per Capita")
(bin=23, start=4.5852928, width=.30242874)

38. graph export "$datadir\DistributionLogGDP.png", replace
file E:\NYU Master\Semester 2\PADM-GP 2902 Regression and intro to econometrics\Final
Project\DistributionLogGDP.png saved as PNG format

39.
40. hist lg_co2_em, freq normal title("Distribution of Log_CO2 Emission")
(bin=23, start=-4.0099168, width=.35127488)

41. graph export "$datadir\DistributionLogCO2.png", replace
file E:\NYU Master\Semester 2\PADM-GP 2902 Regression and intro to econometrics\Final
Project\DistributionLogCO2.png saved as PNG format

42.
43. log close
name: <unnamed>
log: E:\NYU Master\Semester 2\PADM-GP 2902 Regression and intro to econometrics
> \Final Project\Presentation Part Do File.smcl
log type: smcl
closed on: 18 Apr 2022, 22:31:01

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