EPIB 613 Thursday October 18, 2012 Stata Session 3

Variables

Type	Min	Max	Precision	Bytes	Type
byte	-2 digits	2 digits	2 digits	1	integer
int	-4 digits	4 digits	4 digits	2	integer
long	-9 digits	9 digits	9 digits	4	integer
float	-10^{38}	10^{36}	10^{-8}	4	real
double	-10^{307}	10^{307}	10^{-16}	8	real
str1	1	1		1	character
str80	1	80		80	character
str244	1	244		244	character

sysuse auto

help limits

compress

describe

list price in 1/10

format price %6.2f

list price in 1/10

format price %12.2fc

list price in 1/10

misstable patterns, freq

```
sum price if foreign == 1

sum price if foreign

sum price if foreign == 0

sum price if !foreign


clear

set obs 10

generate n = _n

generate x = 1/n

generate true = (x==(1/n))

list, clean

generate same = abs(n - (1/x))<1e-6

list, clean


clear

set obs 1

gen d1 = 12345

gen d2 = d1

gen d3 = d1

gen d4 = d1

format d2 %td

format d3 %tdDD.NN.CCYY
```

```
format d4 %tdNN/DD/CCYY
list

gen bdate = mdy(10,19,1993)
format bdate %td
list bdate
gen bday = day(bdate)
gen bmonth = month(bdate)
gen byear = year(bdate)
list b*
clear

sysuse auto
des make
list mpg if make == “Buick LeSabre”
list make in 1/10
format make %18s
list make in 1/10

list if for
gen str10 nation = “Japanese” if _n == 67
list if for
```

turning strings into numbers when the strings are number characters:

```
destring xstr, gen(xnum)

destring xstr, gen(xnum) ignore(“,”)

gen xstr = real(xnum)
```

turning strings into numbers when the strings are not number characters:

```
encode sex, gen(gender)

encode make, gen(car)

tab car

tab car, nolab
```

turning numbers into strings:

```
gen idstr = string(idnum, “010.0f”)

tostring idnum, gen(idnum) format(010.0f)
```

help string functions

```
clear

set obs 1

gen svar3 = “abc”

gen svar2 = “de”

gen svar5 = svar3 + svar2
```

list

gen a3 = substr(svar5,2,3)

substr(s,n1,n2)

Description: returns the substring of s, starting at column n1, for a length of n2. If n1 < 0, n1 is interpreted as distance from the end of the string; if n2 = . (missing), the remaining portion of the string is returned.

```
substr("abcdef",2,3) = "bcd"
substr("abcdef",-3,2) = "de"
substr("abcdef",2,.) = "bcdef"
substr("abcdef",-3,.) = "def"
substr("abcdef",2,0) = ""
substr("abcdef",15,2) = ""
```

sysuse auto

list make in 6/30

gen abbrev_car = substr(make, 1, 5)

list abbrev_car in 6/30

gen new = .

replace new = mpg if for == 1

replace new = mpg/2 if for == 0

count

return list