

```

1 . /*****\
   > * Practice with Stata: data downloaded from internet***/
2 . * Date modified:
3 . * Output saved in: "/Users/Banjodan2/Desktop/StataPractice/"
4 .
5 . label define binaryCode 0 "No" 1 "Yes"

6 .
7 . import delimited datasets/KaggleV2-May-2016.csv //hospital no-show rates
   (14 vars, 110527 obs)

8 . //use
9 .
10 .
11 . //clean the data:
12 . drop if age < 0
   (1 observation deleted)

13 . foreach var of varlist noshow {
     2.      encode `var', gen(`var')
     3.      replace _`var' = _`var' - 1
     4.      label values _`var' binaryCode
     5. }
   (110526 real changes made)

14 .
15 . foreach var of varlist scholarship hypertension diabetes alcoholism handicap
   > sms_received {
     2.      label values `var' binaryCode
     3. }

16 .
17 . numlabel, add

18 .
19 . local categoricalVars "gender scholarship hypertension diabetes alcoholism h
   > andcap sms_received noshow neighbourhood"

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20 . local size : word count `categoricalVars'
21 .
22 . di "We have `size' categorical variables."
    We have 9 categorical variables.
23 .
24 . *summarizing the categorical vars:
25 . foreach var of varlist `categoricalVars' {
    2.      sum `var'
    3.      tabulate `var', missing plot
    4. }

```

Variable	Obs	Mean	Std. Dev.	Min	Max
gender	0				
Gender	Freq.				
> -					
F	71,839	*****			
> *					
M	38,687	*****			
> -					
Total	110,526				
Variable	Obs	Mean	Std. Dev.	Min	Max
scholarship	110526	.0982665	.297676	0	1
Scholarship	Freq.				
> -					
0. No	99,665	*****			
> *					
1. Yes	10,861	*****			
> -					
Total	110,526				
Variable	Obs	Mean	Std. Dev.	Min	Max
hipertension	110526	.1972477	.3979227	0	1

```

Hipertensio
n      Freq.
-----
> -
    0. No |    88,725 | *****
> *
    1. Yes |    21,801 | *****
-----
> -
    Total |   110,526 |
-----

Variable      Obs      Mean      Std. Dev.      Min      Max
-----
diabetes      110526      .0718654      .2582662          0          1

Diabetes      Freq.
-----
> -
    0. No |   102,583 | *****
> *
    1. Yes |    7,943 | ****
-----
> -
    Total |   110,526 |
-----

Variable      Obs      Mean      Std. Dev.      Min      Max
-----
alcoholism    110526      .0304001      .1716863          0          1

Alcoholism    Freq.
-----
> -
    0. No |   107,166 | *****
> *
    1. Yes |    3,360 | **
-----
> -
    Total |   110,526 |
-----

Variable      Obs      Mean      Std. Dev.      Min      Max
-----
handcap       110526      .0222482      .1615434          0          4

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      Handcap |      Freq. |
-----|-----|
> -
      0. No |    108,285 | *****
> *
      1. Yes |     2,042 | *
          2 |       183 |
          3 |        13 |
          4 |         3 |
-----|-----|
> -
      Total |    110,526 |

      Variable |      Obs      Mean      Std. Dev.      Min      Max
-----|-----|
sms_received |    110526    .3210285    .4668738          0          1

SMS_receive
d          |      Freq. |
-----|-----|
> -
      0. No |    75,044 | *****
> *
      1. Yes |    35,482 | *****
-----|-----|
> -
      Total |    110,526 |

      Variable |      Obs      Mean      Std. Dev.      Min      Max
-----|-----|
      noshow |          0 |

      No-show |      Freq. |
-----|-----|
> -
      No |    88,207 | *****
> *
      Yes |    22,319 | *****
-----|-----|
> -
      Total |    110,526 |

      Variable |      Obs      Mean      Std. Dev.      Min      Max
-----|-----|
neighbourh~d |          0 |

```

Neighbourhood	Freq.	
> -		
AEROPORTO	8	
ANDORINHAS	2,262	*****
ANTÃO NIO HONÃO RIO	271	*
ARIOVALDO FAVALESSA	282	*
BARRO VERMELHO	423	**
BELA VISTA	1,907	*****
BENTO FERREIRA	858	****
BOA VISTA	312	*
BONFIM	2,773	*****
CARATOÃO RA	2,565	*****
CENTRO	3,334	*****
COMDUSA	310	*
CONQUISTA	849	****
CONSOLAÃO O	1,376	*****
CRUZAMENTO	1,398	*****
DA PENHA	2,217	*****
DE LOURDES	305	*
DO CABRAL	560	***
DO MOSCOSO	413	**
DO QUADRO	849	****
ENSEADA DO SUÃO	235	*
ESTRELINHA	538	***
FONTE GRANDE	682	***
FORTE SÃO JOÃO O	1,889	*****
FRADINHOS	258	*
GOIABEIRAS	700	***
GRANDE VITÃO RIA	1,071	*****
GURIGICA	2,018	*****
HORTO	175	*
ILHA DAS CAIEIRAS	1,071	*****
ILHA DE SANTA MARIA	1,885	*****
ILHA DO BOI	35	
ILHA DO FRADE	10	
ILHA DO PRÃO NCIPÉ	2,266	*****
ILHAS OCEÃO NICAS DE TRINDADE	2	
INHANGUETÃO	1,057	*****
ITARARÃO	3,514	*****
JABOUR	2,509	*****
JARDIM CAMBURI	7,717	*****
> *		
JARDIM DA PENHA	3,877	*****
JESUS DE NAZARETH	2,853	*****
JOANA DÂ ARC	1,427	*****
JUCUTUQUARA	694	***
MARIA ORTIZ	5,805	*****
MARUÃO PE	1,902	*****

MATA DA PRAIA	644	***
MONTE BELO	824	****
MORADA DE CAMBURI	96	
MÃ?RIO CYPRESTE	371	**
NAZARETH	135	*
NOVA PALESTINA	2,264	*****
PARQUE INDUSTRIAL	1	
PARQUE MOSCOSO	802	****
PIEDADE	452	**
PONTAL DE CAMBURI	69	
PRAIA DO CANTO	1,035	*****
PRAIA DO SUÃ?	1,288	*****
REDENÃ?Ã?O	1,553	*****
REPÃ?BLICA	835	****
RESISTÃ?NCIA	4,431	*****
ROMÃ?O	2,214	*****
SANTA CECÃ?LIA	448	**
SANTA CLARA	506	**
SANTA HELENA	178	*
SANTA LUÃ?ZA	428	**
SANTA LÃ?CIA	438	**
SANTA MARTHA	3,131	*****
SANTA TEREZA	1,332	*****
SANTO ANDRÃ?	2,571	*****
SANTO ANTÃ?NIO	2,746	*****
SANTOS DUMONT	1,276	*****
SANTOS REIS	547	***
SEGURANÃ?A DO LAR	145	*
SOLON BORGES	469	**
SÃ?O BENEDITO	1,439	*****
SÃ?O CRISTÃ?VÃ?O	1,836	*****
SÃ?O JOSÃ?	1,977	*****
SÃ?O PEDRO	2,448	*****
TABUAZEIRO	3,132	*****
UNIVERSITÃ?RIO	152	*
VILA RUBIM	851	****

> -

Total	110,526
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26 .
27 . notes gender: there is no significant difference between the no-show rates o
    > f males and females

28 .
29 . save "PracticeDataCleaned.dta", replace
    file PracticeDataCleaned.dta saved

30 .
31 . *tabbout eststo esttab estadd
32 . eststo: regress _noshow sms_received age

```

Source	SS	df	MS	Number of obs =	110526
Model	353.020515	2	176.510258	F( 2,110523) =	1117.39
Residual	17459.0059110523		.157967173	Prob > F	= 0.0000
				R-squared	= 0.0198
				Adj R-squared	= 0.0198
Total	17812.0264110525		.161158348	Root MSE	= .39745

_noshow	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
sms_received	.1093829	.0025609	42.71	0.000	.1043636	.1144022
age	-.0010759	.0000517	-20.80	0.000	-.0011773	-.0009745
_cons	.206722	.0023973	86.23	0.000	.2020233	.2114208

(est2 stored)

```

33 . esttab using "output/tables/table1_regress_noshow_sms.tex", replace se r2 no
    > cons booktabs
    (output written to output/tables/table1_regress_noshow_sms.tex)

34 . eststo clear

35 .
36 . //Great way to turn a string of numbers into integer values and remove unwan
    > ted characters from a variable:

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```

37 . * gen var2=regexr(var1,"[.\}\)\\"*a-zA-Z]+","")
38 . * destring var2, replace
39 .
40 . * or to extract strings:
41 . * gen var2=regexr(var1,"[.0-9]+","")
42 .
43 . * 1. -by:-.
44 .
45 . * 2. -foreach- or -forval- with varlists or numlists.
46 .
47 . * 3. -merge-. I rarely use it but -merge-masters have real leverage
48 . * in file manipulations.
49 .
50 . * 4. -assert-. My candidate for the most underestimated command in
51 . * Stata (second is -count-).
52 .
53 . * 5. -reshape-.
54 .
55 . *other stata commands to try:
56 . /* margins
    > svtnmat
    > coeffplot
    > collapse */
57 .
58 . //snapshot or preserve

```