

```

1 . /*****
   > * Practice with Stata--hospital noshow rates 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 /\`projectpath'/datasets/KaggleV2-May-2016.csv
   (14 vars, 110527 obs)

8 . //clean the data
9 . drop if age < 0
   (1 observation deleted)

10 . 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)

11 .
12 . foreach var of varlist scholarship hipertension diabetes alcoholism handicap
   > sms_received {
     2.      label values `var' binaryCode
     3. }

13 .
14 . numlabel, add

15 .
16 . local categoricalVars "gender scholarship hipertension diabetes alcoholism h
   > andcap sms_received noshow neighbourhood"

```

```
17 . local size : word count `categoricalVars'
```

```
18 .
```

```
19 . di "We have `size' categorical variables."
```

```
    We have 9 categorical variables.
```

```
20 .
```

```
21 . *summarizing the categorical vars:
```

```
22 . 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

```

```

      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	*****
ANTÃ?NIO HONÃ?RIO	271	*
ARIOVALDO FAVALESSA	282	*
BARRO VERMELHO	423	**
BELA VISTA	1,907	*****
BENTO FERREIRA	858	****
BOA VISTA	312	*
BONFIM	2,773	*****
CARATOÃ?RA	2,565	*****
CENTRO	3,334	*****
COMDUSA	310	*
CONQUISTA	849	****
CONSOLAÃ?Ã?O	1,376	*****
CRUZAMENTO	1,398	*****
DA PENHA	2,217	*****
DE LOURDES	305	*
DO CABRAL	560	***
DO MOSCOSO	413	**
DO QUADRO	849	****
ENSEADA DO SUÃ?	235	*
ESTRELINHA	538	***
FONTE GRANDE	682	***
FORTE SÃ?O JOÃ?O	1,889	*****
FRADINHOS	258	*
GOIABEIRAS	700	***
GRANDE VITÃ?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 PRÃ?NCIPE	2,266	*****
ILHAS OCEÃ?NICAS DE TRINDADE	2	
INHANGUETÃ?	1,057	*****
ITARARÃ?	3,514	*****
JABOUR	2,509	*****
JARDIM CAMBURI	7,717	*****
> *		
JARDIM DA PENHA	3,877	*****
JESUS DE NAZARETH	2,853	*****
JOANA DÃ?ARC	1,427	*****
JUCUTUQUARA	694	***
MARIA ORTIZ	5,805	*****
MARUÃ?PE	1,902	*****

MATA DA PRAIA	644	***
MONTE BELO	824	****
MORADA DE CMBURI	96	
MÃ?RIO CYPRESTE	371	**
NAZARETH	135	*
NOVA PALESTINA	2,264	*****
PARQUE INDUSTRIAL	1	
PARQUE MOSCOSO	802	****
PIEDADE	452	**
PONTAL DE CMBURI	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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```

23 .
24 . notes gender: there is no significant difference between the no-show rates o
    > f males and females

25 .
26 . save "PracticeDataCleaned.dta", replace
    file PracticeDataCleaned.dta saved

27 .
28 . *tabbout eststo esttab estadd
29 . 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
Total	17812.0264110525		.161158348	R-squared =	0.0198
				Adj R-squared =	0.0198
				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

(est1 stored)

```

30 . esttab using "test2.tex", replace se r2 nocons booktabs
    (output written to test2.tex)

31 . eststo clear

32 .

```