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```

name: <unnamed>
log: /Users/thedatacooker/Desktop/Biostat200-2018/Labs-2018/Lab 1/lab 1.smcl
log type: smcl
opened on: 9 Sep 2018, 15:41:27

```

```

1 .
end of do-file

2 . do "/var/folders/k6/glqpp_pn0vj37mtyr3qpz65h0000gn/T//SD51156.000000"

3 . use vct.dta, clear

4 .
end of do-file

5 . do "/var/folders/k6/glqpp_pn0vj37mtyr3qpz65h0000gn/T//SD51156.000000"

6 . describe

```

Contains data from **vct.dta**

```

obs:      3,389
vars:      13                      11 Jul 2018 07:11
size:     71,169

```

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| variable name    | storage<br>type | display<br>format | value<br>label | variable label |
|------------------|-----------------|-------------------|----------------|----------------|
| <b>age</b>       | double          | %12.0g            |                |                |
| <b>auditc</b>    | byte            | %12.0g            |                |                |
| <b>cd4</b>       | int             | %11.0g            |                |                |
| <b>cd4_cat</b>   | byte            | %11.0g            |                |                |
| <b>female</b>    | byte            | %9.0g             |                |                |
| <b>hiv</b>       | byte            | %12.0g            |                |                |
| <b>hungry</b>    | byte            | %12.0g            |                |                |
| <b>lastalc</b>   | byte            | %20.0g            |                |                |
| <b>n_adults</b>  | byte            | %12.0g            |                |                |
| <b>n_child</b>   | byte            | %12.0g            |                |                |
| <b>n_support</b> | byte            | %12.0g            |                |                |
| <b>religion</b>  | byte            | %10.0g            |                |                |
| <b>sex</b>       | byte            | %12.0g            |                |                |

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Sorted by: **hiv**

```

7 .
end of do-file

8 . do "/var/folders/k6/glqpp_pn0vj37mtyr3qpz65h0000gn/T//SD51156.000000"

9 . label var age "Age"

10 . label var auditc "Audit score, last 3 months"

11 . label var cd4 "CD4 count"

12 . label var cd4_cat "CD4 count"

13 . label var hiv "HIV status"

14 . label var hungry "How often household members go hungry"

15 . label var lastalc "Last time used alcohol"

16 . label var female "female sex"

17 . label var n_adults "# adults in household"

18 . label var n_child "# people <18yo in household"

```

```

19 . label var n_support "# people supported financially"
20 . label var religion "Religion"
21 .
    end of do-file
22 . do "/var/folders/k6/glqpp_pn0vj37mtyr3qpz65h0000gn/T//SD51156.000000"
23 . label define yesno 0 "no" 1 "yes"
24 . label values female yesno
25 . label define sex 1 "men" 2 "women"
26 . label values sex sex
27 . label define hiv 0 "HIV-" 1 "HIV+"
28 . label values hiv hiv
29 . label define cd4_cat 0 "<50" 1 "51-250" 2 "251-500" 3 ">500"
30 . label values cd4_cat cd4_cat
31 . label define hungry 1 "often" 2 "sometimes" 3 "seldom" 4 "never"
32 . label values hungry hungry
33 . label define lastalc 0 "never" 1 ">1 year ago" 2 "within last year"
34 . label values lastalc lastalc
35 . label define religion 1 "Protestant" 2 "Catholic" 3 "Saved" 4 "Moslem" 8 "Other"
36 . label values religion religion
37 .
    end of do-file
38 . do "/var/folders/k6/glqpp_pn0vj37mtyr3qpz65h0000gn/T//SD51156.000000"
39 . codebook religion

```

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**religion**

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**Religion**

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```

      type: numeric (byte)
      label: religion, but 2 nonmissing values are not labeled

      range: [1,8]                units: 1
unique values: 5                  missing .: 2/3,389

```

| tabulation: | Freq. | Numeric | Label      |
|-------------|-------|---------|------------|
|             | 1,002 | 1       | Protestant |
|             | 1,047 | 4       | Moslem     |
|             | 576   | 5       |            |
|             | 679   | 6       |            |
|             | 83    | 8       | Other      |
|             | 2     | .       |            |

```

40 . label list religion
      religion:
          1 Protestant
          2 Catholic
          3 Saved

```

4 Moslem  
8 Other

```
41 .
    end of do-file

42 . do "/var/folders/k6/glqpp_pn0vj37mtyr3qpz65h0000gn/T//SD51156.000000"

43 . des
```

Contains data from **vct.dta**

```
obs:      3,389
vars:      13
size:      71,169
11 Jul 2018 07:11
```

| variable name    | storage type | display format | value label | variable label                               |
|------------------|--------------|----------------|-------------|----------------------------------------------|
| <b>age</b>       | double       | %12.0g         |             | <b>Age</b>                                   |
| <b>auditc</b>    | byte         | %12.0g         |             | <b>Audit score, last 3 months</b>            |
| <b>cd4</b>       | int          | %11.0g         |             | <b>CD4 count</b>                             |
| <b>cd4_cat</b>   | byte         | %11.0g         | cd4_cat     | <b>CD4 count</b>                             |
| <b>female</b>    | byte         | %9.0g          | yesno       | <b>female sex</b>                            |
| <b>hiv</b>       | byte         | %12.0g         | hiv         | <b>HIV status</b>                            |
| <b>hungry</b>    | byte         | %12.0g         | hungry      | <b>How often household members go hungry</b> |
| <b>lastalc</b>   | byte         | %20.0g         | lastalc     | <b>Last time used alcohol</b>                |
| <b>n_adults</b>  | byte         | %12.0g         |             | <b># adults in household</b>                 |
| <b>n_child</b>   | byte         | %12.0g         |             | <b># people &lt;18yo in household</b>        |
| <b>n_support</b> | byte         | %12.0g         |             | <b># people supported financially</b>        |
| <b>religion</b>  | byte         | %10.0g         | religion    | <b>Religion</b>                              |
| <b>sex</b>       | byte         | %12.0g         | sex         |                                              |

Sorted by: **hiv**

```
44 . sum
```

| Variable  | Obs   | Mean     | Std. Dev. | Min   | Max   |
|-----------|-------|----------|-----------|-------|-------|
| age       | 3,387 | 31.72897 | 9.860256  | 17.51 | 79.82 |
| auditc    | 3,244 | .6390259 | 1.483416  | 0     | 12    |
| cd4       | 999   | 329.2332 | 266.1177  | 1     | 1932  |
| cd4_cat   | 999   | 1.618619 | .9377913  | 0     | 3     |
| female    | 3,389 | .5417527 | .4983272  | 0     | 1     |
| hiv       | 3,389 | .2959575 | .4565393  | 0     | 1     |
| hungry    | 3,321 | 3.603132 | .7817434  | 1     | 4     |
| lastalc   | 3,377 | .9227125 | .9101892  | 0     | 2     |
| n_adults  | 3,384 | 1.664598 | 1.737786  | 0     | 12    |
| n_child   | 3,382 | 1.850089 | 1.924868  | 0     | 12    |
| n_support | 3,372 | 3.907177 | 3.227549  | 0     | 20    |
| religion  | 3,387 | 3.781518 | 1.994997  | 1     | 8     |
| sex       | 3,389 | 1.541753 | .4983272  | 1     | 2     |

```
45 . browse

46 .
    end of do-file

47 . do "/var/folders/k6/glqpp_pn0vj37mtyr3qpz65h0000gn/T//SD51156.000000"

48 . gen alc_any=0 if auditc==0
    (966 missing values generated)

49 . replace alc_any=1 if auditc>0 & auditc !=.
    (821 real changes made)

50 . label var alc_any "Any alcohol use"
```

```

51 . label values alc_any yesno // value label yesno is already part of the dataset
52 . * check to make sure this worked
53 . tab auditc alc_any, missing

```

| Audit<br>score,<br>last 3<br>months | Any alcohol use |     | .   | Total |
|-------------------------------------|-----------------|-----|-----|-------|
|                                     | no              | yes |     |       |
| 0                                   | 2,423           | 0   | 0   | 2,423 |
| 1                                   | 0               | 363 | 0   | 363   |
| 2                                   | 0               | 134 | 0   | 134   |
| 3                                   | 0               | 118 | 0   | 118   |
| 4                                   | 0               | 108 | 0   | 108   |
| 5                                   | 0               | 44  | 0   | 44    |
| 6                                   | 0               | 13  | 0   | 13    |
| 7                                   | 0               | 10  | 0   | 10    |
| 8                                   | 0               | 7   | 0   | 7     |
| 9                                   | 0               | 15  | 0   | 15    |
| 10                                  | 0               | 4   | 0   | 4     |
| 11                                  | 0               | 3   | 0   | 3     |
| 12                                  | 0               | 2   | 0   | 2     |
| .                                   | 0               | 0   | 145 | 145   |
| Total                               | 2,423           | 821 | 145 | 3,389 |

```

54 .
    end of do-file

55 . do "/var/folders/k6/glqpp_pn0vj37mtyr3qpz65h0000gn/T//SD51156.000000"

56 . drop alc_any

57 . recode auditc (0=0 "no") (2/max=1 "yes"), gen(alc_any)
    (458 differences between auditc and alc_any)

58 . label var alc_any "Any alcohol use"

59 .
    end of do-file

60 . do "/var/folders/k6/glqpp_pn0vj37mtyr3qpz65h0000gn/T//SD51156.000000"

61 . recode auditc (min/2=0 "no") (3/max=1 "yes"), gen(alc_unh)
    (821 differences between auditc and alc_unh)

62 . replace alc_unh = 0 if female==0 & auditc==3
    (69 real changes made)

63 . label var alc_unh "Unhealthy alcohol use"

64 . * check to make sure this worked
65 . bysort female: tab auditc alc_unh, m

```

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```

-> female = no

```

| Audit<br>score,<br>last 3<br>months | Unhealthy alcohol use |     | . | Total |
|-------------------------------------|-----------------------|-----|---|-------|
|                                     | no                    | yes |   |       |
| 0                                   | 1,042                 | 0   | 0 | 1,042 |
| 1                                   | 166                   | 0   | 0 | 166   |
| 2                                   | 57                    | 0   | 0 | 57    |
| 3                                   | 69                    | 0   | 0 | 69    |

|       |       |     |    |       |
|-------|-------|-----|----|-------|
| 4     | 0     | 71  | 0  | 71    |
| 5     | 0     | 34  | 0  | 34    |
| 6     | 0     | 9   | 0  | 9     |
| 7     | 0     | 8   | 0  | 8     |
| 8     | 0     | 5   | 0  | 5     |
| 9     | 0     | 12  | 0  | 12    |
| 10    | 0     | 2   | 0  | 2     |
| 11    | 0     | 2   | 0  | 2     |
| 12    | 0     | 2   | 0  | 2     |
| .     | 0     | 0   | 74 | 74    |
| <hr/> |       |     |    |       |
| Total | 1,334 | 145 | 74 | 1,553 |

---

-> female = yes

| Audit<br>score,<br>last 3<br>months | Unhealthy alcohol use |     | .  | Total |
|-------------------------------------|-----------------------|-----|----|-------|
|                                     | no                    | yes |    |       |
| 0                                   | 1,381                 | 0   | 0  | 1,381 |
| 1                                   | 197                   | 0   | 0  | 197   |
| 2                                   | 77                    | 0   | 0  | 77    |
| 3                                   | 0                     | 49  | 0  | 49    |
| 4                                   | 0                     | 37  | 0  | 37    |
| 5                                   | 0                     | 10  | 0  | 10    |
| 6                                   | 0                     | 4   | 0  | 4     |
| 7                                   | 0                     | 2   | 0  | 2     |
| 8                                   | 0                     | 2   | 0  | 2     |
| 9                                   | 0                     | 3   | 0  | 3     |
| 10                                  | 0                     | 2   | 0  | 2     |
| 11                                  | 0                     | 1   | 0  | 1     |
| .                                   | 0                     | 0   | 71 | 71    |
| <hr/>                               |                       |     |    |       |
| Total                               | 1,655                 | 110 | 71 | 1,836 |

```

66 .
    end of do-file

67 . do "/var/folders/k6/glqpp_pn0vj37mtyr3qpz65h0000gn/T//SD51156.000000"

68 . graph box n_support, over(hungry) name(ins_alc, replace)

69 .
    end of do-file

70 . exit, clear

```