*** USE DATA SET *******
use C:\Users\TA0VLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

keep if morate ~= . & merit ~= . & yrsoth ~= .
(0 observations deleted)
gen yrsniu2 = yrsniu^2
gen yrsoth2 = yrsoth^2
describe

Contains data from C:\Users\TA0VLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B.dta
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vars:            39
size:        82,800

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Sorted by: quint

Note: Dataset has changed since last saved.

summarize
**REPORT TABLE 1 W/OUT I.DEPT**

**Linear regression**

| Coef. | Std. Err. | t     | P>|t| | [95% Conf. Interval] |
|-------|-----------|-------|------|----------------------|
| female | -0.0909894 | 0.0220996 | -4.12 | 0.000 | -0.1343961 | -0.0475828 |
| asian  | 0.0303367  | 0.0311307  | 0.97  | 0.330 | -0.038083  | 0.0914816  |
| black  | -0.0476656 | 0.0303012  | -1.57 | 0.116 | -0.1071812 | 0.0118500  |
| hisp   | -0.0167766 | 0.0502686  | -0.33 | 0.739 | -0.1155109 | 0.0819577  |
| _cons  | 9.077544   | 0.0156985  | 578.24| 0.000 | 9.046710   | 9.108378   |

**Linear regression**

| Coef. | Std. Err. | t     | P>|t| | [95% Conf. Interval] |
|-------|-----------|-------|------|----------------------|
| female | -0.0332935 | 0.0152132 | -2.19 | 0.029 | -0.0631745 | -0.0034126 |
| asian  | -0.0001818 | 0.0204424 | -0.01 | 0.993 | -0.0403336 | 0.0399699  |
| black  | 0.0498854  | 0.0285081  | 1.75  | 0.081 | -0.0061086 | 0.1058793  |
| hisp   | -0.0330698 | 0.0328589  | -1.01 | 0.315 | -0.0976092 | 0.0314697  |
| cupa000| 0.0834239  | 0.0026225  | 31.81 | 0.000 | 0.078273   | 0.0885749  |
| _cons  | 8.259874   | 0.0297494  | 277.65| 0.000 | 8.201442   | 8.318306   |

**Linear regression**

| Coef. | Std. Err. | t     | P>|t| | [95% Conf. Interval] |
|-------|-----------|-------|------|----------------------|
| female | 0.0212321  | 0.0126937 | 1.67  | 0.095 | -0.0037007 | 0.0461649  |
| asian  | 0.0269929  | 0.0172726  | 1.56  | 0.119 | -0.0069337 | 0.0609196  |
| black  | 0.0386529  | 0.0212396  | 1.82  | 0.069 | -0.0030656 | 0.0803715  |
| hisp   | -0.0090569 | 0.0247676  | -0.37 | 0.715 | -0.0577051 | 0.0395913  |
| cupa000| 0.0790463  | 0.0027336  | 28.92 | 0.000 | 0.0736771  | 0.0844156  |
| full   | 3.250136   | 0.0274344  | 11.85 | 0.000 | 0.2711272  | 0.3788999  |
. regress lmorate female asian black hisp ///
>                 cupa000 full assoc yrsniu yrsniu2 yrssoth yrssoth2 ///
>                 quintTOP quint2ND quintMI D profship saladj seadj, vce(robust)

Linear regression                               Number of obs     =        575
F(17, 557)        =     103.92
Prob > F          =     0.0000
R-squared         =     0.7368
Root MSE          =     .13804
------------------------------------------------------------------------------
|               Robust
lmorate |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
female |   .0205302   .0127592     1.61   0.108    -.0045319    .0455922
asian |    .029944   .0167988     1.78   0.075    -.0030526    .0629407
black |   .0466523   .0215635     2.16   0.031     .0042965     .089008
hisp |  -.0175523   .0261718    -0.67   0.503    -.0689598    .0338552
cupa000 |   .0794332   .0027479    28.91   0.000     .0740357    .0848306
full |    .297648   .0280059    10.63   0.000      .242638     .352658
assoc |   .1337549   .0216264     6.18   0.000     .0912756    .1762343
yrsniu |  -.0148027   .0029618    -5.00   0.000    -.0206205    -.008985
yrsniu2 |   .0004044   .0000799     5.06   0.000     .0002474    .0005614
yrssoth |   .0029334   .0029425     1.02   0.309    -.0027864    .0087733
yrssoth2 |   .0003188   .0001349     2.36   0.018     .0000538    .0005837
quintTOP |   .0314842   .0158891     1.98   0.048     .0027422    .0626941
quint2ND |   .0282328   .0160126     1.76   0.078    -.0032196    .0596851
quintMI D |   .0219066   .0154111     1.42   0.156    -.0083649    .0517699
profship |    .081427   .0191108     4.26   0.000     .0438889    .1189659
saladj |   .0325492   .0261861     1.24   0.214    -.0188864    .0839848
seadj |   .0570734   .0159486     3.58   0.000     .0257467    .0884001
_cons |   8.162889   .0319071   255.83   0.000     8.100216    8.225562
------------------------------------------------------------------------------

. * REPORT TABLE 1 W/I.DEPT
. regress lmorate female asian black hisp i.dept, vce(robust)

Linear regression                               Number of obs     =        575
F(45, 529)        =      86.53
Prob > F          =     0.0000
R-squared         =     0.6815
Root MSE          =     .15581
------------------------------------------------------------------------------
|               Robust
lmorate |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
female |  -.0470964   .0137454    -3.43   0.001    -.0740986   -.0200941
asian |  -.0228647   .0181854    -1.26   0.209    -.0585892    .0138598
black |   .0312892   .0325435     0.96   0.337    -.0326412    .0952197
hisp |  -.0447024   .0310343    -1.44   0.150    -.1058674    .0162626
dept |  -.0002004   .0016201    -0.12   0.902    -.0034352    .0030346
_cons |   8.119703   .030451   268.61   0.000     8.119703    8.239326
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. regress lmorate female asian black hisp cupa000 i.dept, vce(robust)

Linear regression

Number of obs = 575
F(46, 528) = 85.29
Prob > F = 0.0000
R-squared = 0.6819
Root MSE = 0.15587

| lmorate | Coef. | Std. Err. | t | P>|t| | [95% Conf. Interval] |
|---------|-------|-----------|---|------|------------------|
| female  | -0.046093 | 0.0138465 | -3.33 | 0.001 | -0.073294 | -0.018892 |
| asian   | -0.0237484 | 0.0182107 | -1.30 | 0.193 | -0.0595227 | 0.0120259 |
| black   | 0.0312779 | 0.0326723 | 0.96 | 0.339 | -0.0329058 | 0.0954615 |
| hisp    | -0.0445961 | 0.0310467 | -1.44 | 0.151 | -0.105863 | -0.0038461 |
| cupa000 | 0.0327348 | 0.0099231 | 3.30 | 0.001 | 0.0132412 | 0.0522284 |
|   |      Coef      | Std. Err. |     t   |     P>|t|  |   [95% Conf. Interval]   |
|---|--------------|----------|--------|-------|--------------------------|
| 2 | 0.0580973    | 0.0294321| 1.97   | 0.049 | 0.000279 - 0.1159157     |
| 3 | -0.0949575   | 0.0406902| -2.33  | 0.020 | -0.174892 - 0.0150229    |
| 4 | -0.0845446   | 0.0351059| -2.41  | 0.016 | -0.153509 - 0.0155802    |
| 5 | -0.1310191   | 0.0787384| -1.66  | 0.097 | -0.285698 - 0.02366      |
| 6 | -0.4904297   | 0.0899282| -5.45  | 0.000 | -0.667091 - 0.313768     |
| 7 | -0.4132297   | 0.1156636| -3.57  | 0.000 | -0.640447 - 0.186012     |
| 8 | -0.4907694   | 0.0865339| -5.67  | 0.000 | -0.660763 - 0.320775     |
| 9 | -0.463498    | 0.0993772| -4.66  | 0.000 | -0.658721 - 0.268274     |
|10 | -0.399593    | 0.0977311| -4.30  | 0.000 | -0.591872 - 0.196876     |
|11 | -0.5059758   | 0.0913541| -5.54  | 0.000 | -0.685438 - 0.326514     |
|12 | -0.379042    | 0.0807731| -4.69  | 0.000 | -0.53770  - 0.220348     |
|13 | -0.4019593   | 0.0934839| -4.30  | 0.000 | -0.585605 - 0.213132     |
|14 | -0.3145323   | 0.1158676| -2.71  | 0.007 | -0.54215  - 0.086914     |
|15 | -0.3589881   | 0.0854674| -4.20  | 0.000 | -0.526886 - 0.191090     |
|16 | -0.402859    | 0.0655578| -4.73  | 0.000 | -0.579322 - 0.23925      |
|17 | -0.3766595   | 0.108695  | -3.47  | 0.001 | -0.590187 - 0.163138     |
|18 | -0.4907694   | 0.0865339| -5.67  | 0.000 | -0.660763 - 0.320775     |
|19 | -0.418597    | 0.0907731| -4.69  | 0.000 | -0.591872 - 0.268274     |
|20 | -0.3833308   | 0.0831404| -4.61  | 0.000 | -0.546657 - 0.220042     |
|21 | -0.419277    | 0.0785936| -5.33  | 0.000 | -0.573671 - 0.264825     |
|22 | -0.2146547   | 0.0778933| -2.76  | 0.006 | -0.367469 - 0.061840     |
|23 | -0.2692481   | 0.0781111| -3.45  | 0.000 | -0.422695 - 0.115806     |
|24 | -0.4498667   | 0.0848832| -5.30  | 0.000 | -0.616161 - 0.283116     |
|25 | -0.525335    | 0.1014936| -5.18  | 0.000 | -0.724814 - 0.326052     |
|26 | -0.4211803   | 0.0643948| -6.50  | 0.000 | -0.60524  - 0.23712      |
|27 | -0.3848427   | 0.089585  | -4.33  | 0.000 | -0.559599 - 0.210086     |
|28 | -0.407898    | 0.090453  | -4.51  | 0.000 | -0.585589 - 0.230206     |
|29 | -0.4246354   | 0.0859451| -4.94  | 0.000 | -0.593471 - 0.255799     |
|30 | -0.433852    | 0.0971522| -4.46  | 0.000 | -0.624234 - 0.242533     |
|31 | -0.3559474   | 0.0726009| -4.90  | 0.000 | -0.498569 - 0.213325     |
|32 | -0.4164091   | 0.0856844| -4.86  | 0.000 | -0.584733 - 0.248084     |
|33 | -0.3534018   | 0.0721654| -4.90  | 0.000 | -0.495168 - 0.211635     |
|34 | -0.3295189   | 0.109668  | -3.26  | 0.001 | -0.527864 - 0.131173     |
|35 | -0.3678509   | 0.0941958| -3.70  | 0.000 | -0.563157 - 0.172546     |
|36 | -0.2760353   | 0.1034522| -2.67  | 0.008 | -0.480641 - 0.073033     |
|37 | -0.8705787   | 0.083103  | -9.88  | 0.000 | -1.043708 - 0.697449     |
|38 | -0.525961    | 0.0952972| -5.48  | 0.000 | -0.709141 - 0.334725     |
|39 | -0.519333    | 0.0952972| -5.48  | 0.000 | -0.709141 - 0.334725     |
|40 | -0.6155093   | 0.1109588| -5.55  | 0.000 | -0.833484 - 0.397534     |
|41 | -0.519333    | 0.0952972| -5.48  | 0.000 | -0.709141 - 0.334725     |
|42 | -0.529561    | 0.0952972| -5.48  | 0.000 | -0.709141 - 0.334725     |
|43 | -0.3295189   | 0.109668  | -3.26  | 0.001 | -0.527864 - 0.131173     |
|44 | -0.3678509   | 0.0941958| -3.70  | 0.000 | -0.563157 - 0.172546     |
|45 | -0.2760353   | 0.1034522| -2.67  | 0.008 | -0.480641 - 0.073033     |

_cons | 9.15621      | 0.1701519| 53.81  | 0.000 | 8.821952 - 9.490468      |
The table below shows the results of a regression analysis involving several factors. The dependent variable is `lmorate`, and the independent variables include `female`, `asian`, `black`, `hisp`, `cupa000`, `full`, `assoc`, `yrsniu`, `yrsniu2`, `yrsoth`, `yrsoth2`, `dept`, `quintTOP`, `quint2ND`, `quintMID`, `profship`, `saladj`, `seadj`, and an indicator for department (`i.dept`). The model is specified with `vce(robust)` to account for robust standard errors. The output includes coefficients, standard errors, t-values, and p-values for each variable. The model is estimated using the `regress` command in Stata. The constant term is labeled `_cons` and is also included in the output.

---

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The constant term, `_cons`, is 8.981289 with a standard error of 0.1130382, t-value of 79.45, and p-value of 0.000.

---

The Stata command used to estimate the model is:

```stata
: regress lmorate female asian black hisp ///
    cupa000 full assoc yrsniu yrsniu2 yrsroth yrsroth2 ///
    quintTOP quint2ND quintMID profship saladj seadj i.dept,
    vce(robust)
```

Page 7
<p>|          | Coef.  | Robust Std. Err. | t        | P&gt;|t| | [95% Conf. Interval] |
|----------|--------|------------------|----------|-----|------------------------|
| female   | .004191| .0080645         | 0.52     | 0.604 | .0116523 - .0200342    |
| asian    | .0005979| .0109594        | 0.05     | 0.957 | -.0209325 - .0224358   |
| black    | .0151415| .0156935        | 0.96     | 0.335 | -.0156896 - .3451275   |
| hisp     | -.03676| .0170488        | -2.16    | 0.032 | -.0702536 - .0032664   |
| cupa000  | .030542| .0061497        | 4.94     | 0.000 | .0182726 - .0424358    |
| full     | .3087122| .018536        | 16.65    | 0.000 | .2722969 - .3451275    |
| assoc    | .1319936| .0137618        | 9.59     | 0.000 | .1049575 - .1590297    |
| yrsniu   | -.0112175| .0317618        | -5.10    | 0.000 | -.0155349 - .0069001   |
| yrsniu2  | .0003365| .0061497        | 5.46     | 0.000 | .0182726 - .0424358    |
| yrssoth  | .007701| .024712         | 3.11     | 0.002 | -.0040848 - .05625     |
| yrssoth2 | .000424| .00165         | 2.57     | 0.010 | .0002155 - .0045703    |
| quintTOP | .025922| .0108867        | 2.38     | 0.018 | .0045342 - .0473097    |
| quint2ND | .011141| .011258        | 1.00     | 0.318 | -.1516645 - .0529715   |
| quintMID | .0128735| .0105465       | 1.22     | 0.223 | -.0078459 - .0335928   |
| profship | .0875338| .0172416       | 5.08     | 0.000 | .0536613 - .1214062    |
| saladj   | .0449041| .0199146        | 2.25     | 0.025 | .0057805 - .0840277    |
| seadj    | .0540823| .0127745        | 4.23     | 0.000 | .0289859 - .0791788    |
| dept     |        |                  |          |      |                        |
| 2        | .0663267| .0518421        | 1.28     | 0.201 | -.0355208 - .1681743   |
| 3        | .0334747| .0601606        | -0.56    | 0.578 | -.1516645 - .0847151   |
| 4        | .0793979| .0467153        | 1.70     | 0.090 | -.1711734 - .023776    |
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| 7        | .3739035| .0741712        | 5.00     | 0.000 | .5207179 - .2271431    |
| 8        | .4461303| .0592958        | 7.44     | 0.000 | .5638588 - .3284017    |
| 9        | .4019322| .0675092        | 5.95     | 0.000 | .534559 - .2693055     |
| 10       | .3902874| .0683674        | 5.71     | 0.000 | .5246002 - .2559747    |
| 11       | .4218667| .0659729        | 6.39     | 0.000 | .5514752 - .2922583    |
| 12       | .3480548| .0588017        | 5.92     | 0.000 | .463575 - .2325346     |
| 13       | .3707353| .0580284        | 6.36     | 0.000 | .5065371 - .2675336    |
| 14       | .2714694| .0776088        | 3.50     | 0.001 | .423997 - .1190012     |
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| 19       | .3902874| .0637612        | 5.21     | 0.000 | .483398 - .2187262     |
| 20       | .4681812| .0622615        | 7.52     | 0.000 | .5904985 - .345864     |
| 21       | .3967547| .0592418        | 6.70     | 0.000 | .5131395 - .2803698    |
| 22       | .4204897| .0671338        | 6.26     | 0.000 | .5523789 - .2886006    |
| 23       | .4609823| .0592086        | 7.81     | 0.000 | .5769482 - .3450164    |
| 24       | .1734893| .0535375        | 3.13     | 0.002 | .2822431 - .0647354    |
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