```
-------------------------------------------------------------------------------
-----------
      name:  <unnamed>
       log:
C:\Users\TA0VLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\PROGRAMS\RegOut\OAX
> ACArob-B2fold-OLDERonly.log
  log type:  text
 opened on:  24 Feb 2018, 12:11:57

.
. **** USE DATA SET WITH DEPT DUMMIES (created 18Sep17) ********
. use
C:\Users\TA0VLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\DATA\FINAL\FSS2015-1
6C

.
. gen rank=0

. replace rank=1 if assoc==1
(256 real changes made)

. replace rank=2 if full==1
(192 real changes made)

. tab rank, summarize (age)

           |           Summary of age
      rank |        Mean   Std. Dev.       Freq.
-----------+------------------------------------
         0 |   39.913149    8.293225         127
         1 |   49.990422    8.210228         256
         2 |    56.69014   7.6612126         192
-----------+------------------------------------
     Total |   50.001782   10.102323         575

. gen older=0

. replace older=1 if (rank==0 & age>48.206374) | (rank==1 & age>58.20065) ///
>                  | (rank==2 & age>64.3513526)
(97 real changes made)

. tab rank older

           |         older
      rank |         0          1 |     Total
-----------+----------------------+----------
         0 |       108         19 |       127
         1 |       209         47 |       256
         2 |       161         31 |       192
-----------+----------------------+----------
     Total |       478         97 |       575


. tab older female, col

+-------------------+
| Key               |
|-------------------|
|     frequency     |
| column percentage |
+-------------------+

           |        female
```

older	0	1	Total
0	276	202	478
	84.40	81.45	83.13
1	51	46	97
	15.60	18.55	16.87
Total	327	248	575
	100.00	100.00	100.00

```
. tab older whmale, col

+-------------------+
| Key               |
|-------------------|
|     frequency     |
| column percentage |
+-------------------+
```

older	whmale 0	1	Total
0	267	211	478
	83.44	82.75	83.13
1	53	44	97
	16.56	17.25	16.87
Total	320	255	575
	100.00	100.00	100.00

```
.
. * OAXACA DECOMP - ALL YOUNGER VS. ALL OLDER
. oaxaca lmorate cupa000 full assoc yrsniu yrsniu2 yrsoth yrsoth2   ///
>         quintTOP quint2ND quintMID profship saladj seadj ///
>         , by(older) weight(1) eform vce(robust) noisily

Model for group 1

Linear regression                               Number of obs     =        478
                                                F(13, 464)        =     115.98
                                                Prob > F          =     0.0000
                                                R-squared         =     0.7503
                                                Root MSE          =     .13332

------------------------------------------------------------------------------
             |               Robust
     lmorate |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     cupa000 |   .0797896    .002834    28.15   0.000     .0742206    .0853586
        full |   .3067083   .0332935     9.21   0.000     .2412837     .372133
       assoc |   .1476598   .0261953     5.64   0.000     .0961836    .1991359
      yrsniu |  -.0188035   .0042572    -4.42   0.000    -.0271693   -.0104378
     yrsniu2 |   .0005123   .0001231     4.16   0.000     .0002705    .0007542
      yrsoth |   .0020738   .0039163     0.53   0.597     -.005622    .0097697
     yrsoth2 |   .0003299   .0002786     1.18   0.237    -.0002176    .0008775
    quintTOP |    .025148   .0163309     1.54   0.124    -.0069437    .0572396
    quint2ND |   .0245411   .0169465     1.45   0.148    -.0087604    .0578425
    quintMID |   .0104758   .0165885     0.63   0.528    -.0221222    .0430738
    profship |   .0875679   .0196433     4.46   0.000      .048967    .1261688
```

```
      saladj |   .0533746   .0274971     1.94   0.053    -.0006596    .1074088
       seadj |   .0612965   .0159927     3.83   0.000     .0298694    .0927236
       _cons |   8.196584   .0332084   246.82   0.000     8.131326    8.261842
------------------------------------------------------------------------------

Model for group 2

Linear regression                               Number of obs     =         97
                                                F(13, 83)         =      28.59
                                                Prob > F          =     0.0000
                                                R-squared         =     0.7011
                                                Root MSE          =     .16187

------------------------------------------------------------------------------
             |               Robust
     lmorate |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     cupa000 |   .0629584    .009043     6.96   0.000     .0449721    .0809446
        full |   .3367476   .0734155     4.59   0.000     .1907271     .482768
       assoc |   .1391593   .0610149     2.28   0.025     .0178032    .2605155
      yrsniu |  -.0015703   .0054704    -0.29   0.775    -.0124506      .00931
     yrsniu2 |   .0001079   .0001316     0.82   0.414    -.0001538    .0003697
      yrsoth |   .0066348   .0076755     0.86   0.390    -.0086313     .021901
     yrsoth2 |   .0002233   .0002529     0.88   0.380    -.0002798    .0007263
    quintTOP |   .0644118   .0519737     1.24   0.219    -.0389617    .1677853
    quint2ND |   .0826818   .0489767     1.69   0.095    -.0147309    .1800944
    quintMID |   .1134354   .0520594     2.18   0.032     .0098913    .2169795
    profship |   .0963379   .0541791     1.78   0.079    -.0114222    .2040981
      saladj |  -.0563296   .0452179    -1.25   0.216    -.1462661    .0336069
       seadj |   -.080187   .0966724    -0.83   0.409    -.2724645    .1120905
       _cons |   8.162153    .116317    70.17   0.000     7.930804    8.393503
------------------------------------------------------------------------------

Blinder-Oaxaca decomposition                    Number of obs     =        575

          1: older = 0
          2: older = 1

------------------------------------------------------------------------------
             |               Robust
     lmorate |     exp(b)   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
Differential |
 Prediction_1 |   8458.176   102.1604   748.69   0.000     8260.296    8660.795
 Prediction_2 |   8331.629   238.2881   315.65   0.000     7877.442    8812.004
   Difference |   1.015189   .0315178     0.49   0.627     .9552568    1.078881
-------------+----------------------------------------------------------------
Decomposition |
    Explained |   1.008052   .0294288     0.27   0.784     .9519921    1.067414
  Unexplained |   1.007079   .0234604     0.30   0.762     .9621316    1.054127
------------------------------------------------------------------------------

. oaxaca lmorate cupa000 full assoc yrsniu yrsniu2 yrsoth yrsoth2   ///
>         quintTOP quint2ND quintMID profship saladj seadj ///
>         dept1 dept2 dept3 dept4 dept5 dept6 dept7 dept8 dept9 dept10 ///
>         dept11 dept12 dept13 dept14 dept15 dept16 dept17 dept18 dept19 dept20 ///
>         dept21 dept22 dept23 dept24 dept25 dept26 dept27 dept28 dept29 dept30 ///
>         dept31 dept32 dept33 dept34 dept35 dept36 dept37 dept38 dept39 dept40 ///
>         dept41, ///
>         by(older) weight(1) eform vce(robust) noisily

Model for group 1
```

OAXACArob-B2fold-OLDERonly

Linear regression

Number of obs	= 478
F(54, 423)	= 83.53
Prob > F	= 0.0000
R-squared	= 0.9196
Root MSE	= .07924

lmorate	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
cupa000	.0294711	.0048611	6.06	0.000	.0199163	.039026
full	.3219778	.0209208	15.39	0.000	.2808561	.3630995
assoc	.1490126	.0165397	9.01	0.000	.1165024	.1815229
yrsniu	-.0142694	.0030065	-4.75	0.000	-.0201789	-.0083598
yrsniu2	.0004089	.0000909	4.50	0.000	.0002302	.0005876
yrsoth	.0002916	.0026973	0.11	0.914	-.0050101	.0055933
yrsoth2	.0004535	.0002549	1.78	0.076	-.0000475	.0009544
quintTOP	.0128668	.0113837	1.13	0.259	-.0095088	.0352424
quint2ND	-.0005058	.0098671	-0.05	0.959	-.0199005	.0188889
quintMID	.0041606	.0107747	0.39	0.700	-.0170181	.0253392
profship	.0857355	.0175733	4.88	0.000	.0511936	.1202774
saladj	.0561751	.0209171	2.69	0.008	.0150608	.0972894
seadj	.0674216	.0127213	5.30	0.000	.0424168	.0924264
dept1	.6051305	.0629114	9.62	0.000	.4814726	.7287884
dept2	.6934813	.0624475	11.11	0.000	.5707353	.8162273
dept3	.6023693	.0547305	11.01	0.000	.4947918	.7099469
dept4	.5142572	.0516902	9.95	0.000	.4126555	.6158588
dept5	.5647959	.0577393	9.78	0.000	.4513042	.6782876
dept6	.1397132	.0373538	3.74	0.000	.066291	.2131354
dept7	.2192215	.0401875	5.45	0.000	.1402295	.2982136
dept8	.1548876	.0359632	4.31	0.000	.0841986	.2255765
dept9	.2029612	.0367924	5.52	0.000	.1306425	.2752798
dept10	.2048924	.0393237	5.21	0.000	.1275981	.2821867
dept11	.1854306	.0368262	5.04	0.000	.1130455	.2578156
dept12	.2167561	.0591237	3.67	0.000	.1005432	.332969
dept13	.2411226	.0435753	5.53	0.000	.1554714	.3267737
dept14	.3047509	.0855567	3.56	0.000	.1365816	.4729202
dept15	.2717323	.0478495	5.68	0.000	.1776799	.3657848
dept16	.2753017	.0367535	7.49	0.000	.2030595	.3475439
dept17	.2339992	.040167	5.83	0.000	.1550475	.3129509
dept18	.1840681	.0641706	2.87	0.004	.0579351	.310201
dept19	.2536964	.0354274	7.16	0.000	.1840607	.3233321
dept20	.1490952	.043673	3.41	0.001	.0632521	.2349383
dept21	.2355182	.0399229	5.90	0.000	.1570463	.3139901
dept22	.1721872	.053823	3.20	0.001	.0663934	.2779811
dept23	.1505662	.037699	3.99	0.000	.0764655	.224667
dept24	.4397316	.0521951	8.42	0.000	.3371374	.5423257
dept25	.4030104	.0484345	8.32	0.000	.307808	.4982127
dept26	.1289949	.0356809	3.62	0.000	.058861	.1991287
dept27	.1189556	.0373074	3.19	0.002	.0456246	.1922867
dept28	.1781622	.0359489	4.96	0.000	.1075015	.2488229
dept29	.2030771	.0469859	4.32	0.000	.1107221	.295432
dept30	.1976296	.0368225	5.37	0.000	.1252518	.2700074
dept31	.1339249	.0379262	3.53	0.000	.0593776	.2084722
dept32	.1462847	.0393286	3.72	0.000	.0689808	.2235885
dept33	.1940909	.0410583	4.73	0.000	.1133871	.2747946
dept34	.206629	.0373126	5.54	0.000	.1332877	.2799703
dept35	.1977134	.039506	5.00	0.000	.1200608	.2753659
dept36	.2997091	.0416894	7.19	0.000	.2177649	.3816534
dept37	.2683915	.0361666	7.42	0.000	.1973028	.3394801
dept38	.3565693	.0489373	7.29	0.000	.2603787	.4527599
dept39	-.214446	.0403153	-5.32	0.000	-.2936892	-.1352028
dept40	.0658749	.0430723	1.53	0.127	-.0187875	.1505374

dept41	.0460492	.036918	1.25	0.213	-.0265163	.1186146
_cons	8.435917	.0549571	153.50	0.000	8.327894	8.54394

Model for group 2

Linear regression

Number of obs	= 97
F(36, 51)	= .
Prob > F	= .
R-squared	= 0.9193
Root MSE	= .10728

lmorate	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
cupa000	.1039182	.0094364	11.01	0.000	.0849739	.1228626
full	.3358735	.054637	6.15	0.000	.2261852	.4455618
assoc	.1062104	.0423087	2.51	0.015	.0212721	.1911487
yrsniu	.0045081	.0062457	0.72	0.474	-.0080307	.0170469
yrsniu2	-.0000415	.0001406	-0.30	0.769	-.0003237	.0002407
yrsoth	-.0032595	.006716	-0.49	0.630	-.0167424	.0102234
yrsoth2	.0006204	.0003111	1.99	0.051	-4.15e-06	.001245
quintTOP	.068214	.0404095	1.69	0.098	-.0129114	.1493393
quint2ND	.122489	.0398044	3.08	0.003	.0425783	.2023997
quintMID	.0706669	.0372886	1.90	0.064	-.0041931	.1455269
profship	.1571855	.0841721	1.87	0.068	-.0117969	.326168
saladj	.0660022	.0457801	1.44	0.155	-.0259052	.1579095
seadj	-.1144984	.1011147	-1.13	0.263	-.3174946	.0884979
dept1	0	(omitted)				
dept2	-.1569867	.1504896	-1.04	0.302	-.4591072	.1451339
dept3	-.3516539	.065882	-5.34	0.000	-.4839175	-.2193904
dept4	0	(omitted)				
dept5	-.2732287	.0680048	-4.02	0.000	-.409754	-.1367035
dept6	.0182215	.0868373	0.21	0.835	-.1561117	.1925546
dept7	0	(omitted)				
dept8	.0774861	.0430477	1.80	0.078	-.0089358	.163908
dept9	.1168949	.0533469	2.19	0.033	.0097965	.2239932
dept10	.2599867	.0567963	4.58	0.000	.1459634	.37401
dept11	.1498346	.0608182	2.46	0.017	.027737	.2719322
dept12	-.0780908	.0555351	-1.41	0.166	-.1895822	.0334006
dept13	-.0366315	.069107	-0.53	0.598	-.1753697	.1021066
dept14	.0144473	.0611695	0.24	0.814	-.1083556	.1372502
dept15	-.0582554	.0835191	-0.70	0.489	-.2259271	.1094162
dept16	.4357273	.070073	6.22	0.000	.2950498	.5764047
dept17	.2730952	.0721634	3.78	0.000	.128221	.4179693
dept18	.1183952	.0499891	2.37	0.022	.0180379	.2187525
dept19	.2830586	.0811273	3.49	0.001	.1201887	.4459284
dept20	-.2599306	.1241937	-2.09	0.041	-.5092598	-.0106014
dept21	-.0391433	.0581231	-0.67	0.504	-.1558303	.0775438
dept22	-.1277193	.0688983	-1.85	0.070	-.2660385	.0105998
dept23	-.1279077	.0697902	-1.83	0.073	-.2680173	.012202
dept24	.1041329	.0667245	1.56	0.125	-.0298221	.2380879
dept25	0	(omitted)				
dept26	.0802168	.0673548	1.19	0.239	-.0550037	.2154372
dept27	.1246427	.1364615	0.91	0.365	-.1493151	.3986005
dept28	.1508967	.0426919	3.53	0.001	.065189	.2366043
dept29	-.0257117	.1220119	-0.21	0.834	-.2706608	.2192375
dept30	-.0691718	.10316	-0.67	0.506	-.2762741	.1379305
dept31	.0542926	.0669199	0.81	0.421	-.0800547	.1886399
dept32	0	(omitted)				
dept33	0	(omitted)				
dept34	0	(omitted)				

```
      dept35 |    .076011   .0819647     0.93   0.358      -.08854    .2405621
      dept36 |          0  (omitted)
      dept37 |          0  (omitted)
      dept38 |   .2522849   .0588119     4.29   0.000     .1342151    .3703546
      dept39 |    -.28489   .0750295    -3.80   0.000    -.4355181   -.1342619
      dept40 |  -.0538632   .0621508    -0.87   0.390    -.1786361    .0709097
      dept41 |   .1369739   .1583385     0.87   0.391    -.1809039    .4548517
       _cons |   7.736407   .1047954    73.82   0.000     7.526021    7.946792
------------------------------------------------------------------------------

Blinder-Oaxaca decomposition                    Number of obs     =        575

          1: older = 0
          2: older = 1

------------------------------------------------------------------------------
             |               Robust
      lmorate |     exp(b)   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
Differential |
 Prediction_1 |   8458.176   102.3262   747.48   0.000     8259.979    8661.128
 Prediction_2 |   8331.629   241.0445   312.04   0.000     7872.336    8817.719
   Difference |   1.015189   .0318351     0.48   0.631     .9546717    1.079542
-------------+----------------------------------------------------------------
Decomposition |
    Explained |   1.021819   .0323686     0.68   0.496     .9603074    1.087272
  Unexplained |   .9935108   .0192404    -0.34   0.737      .956507    1.031946
------------------------------------------------------------------------------

.
. ********** CLOSE OUTPUT
. log close
      name:  <unnamed>
       log:
C:\Users\TA0VLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\PROGRAMS\RegOut\OAX
> ACArob-B2fold-OLDERonly.log
  log type:  text
 closed on:  24 Feb 2018, 12:11:59
-------------------------------------------------------------------------------
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```