

Productivity

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name: <unnamed>
log: C:\Users\TAOVLW1\Desktop\WORKING\PROGRAMS\ReportTables\Productivity.log
log type: text
opened on: 12 Nov 2017, 19:06:21

```
. **** USE DATA SET ****  
. use C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B  
  
. gen BUS=0  
. replace BUS=1 if college==1  
(50 real changes made)  
. gen EDUC=0  
. replace EDUC=1 if college==2  
(66 real changes made)  
. gen CEET=0  
. replace CEET=1 if college==3  
(33 real changes made)  
. gen HHS=0  
. replace HHS=1 if college==4  
(56 real changes made)  
. gen LAW=0  
. replace LAW=1 if college==6  
(0 real changes made)  
. gen VPA=0  
. replace VPA=1 if college==8  
(72 real changes made)  
. gen LIB=0  
. replace LIB=1 if college==7  
(19 real changes made)  
. gen PHYSSCI=0  
. replace PHYSSCI=1 if dept==22 | dept==23 | dept==25 | dept==30 | dept==32 |  
dept==3  
> 5 | dept==41  
(100 real changes made)  
. gen BEHAVSOC=0  
. replace BEHAVSOC=1 if dept==21 | dept==26 | dept==29 | dept==36 | dept==38 |  
dept==  
> 39 | dept==40  
(84 real changes made)  
. gen HUMAN=0
```

Productivity

. replace HUMAN=1 if dept==24 | dept==27 | dept==28 | dept==31 | dept==34
(95 real changes made)

. describe

Contains data from C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B.dta

obs: 575
vars: 47 12 Nov 2017 16:09
size: 101,200

variable name	storage type	display format	value label	variable label
control	long	%12.0g		
college	byte	%8.0g		
dept	byte	%8.0g		
age	double	%12.0g		
female	byte	%8.0g		
minority	byte	%8.0g		
asian	byte	%8.0g		
black	byte	%8.0g		
hispanic	byte	%8.0g		
morate	double	%12.0g		
full	byte	%8.0g		
assoc	byte	%8.0g		
rkyrs	double	%12.0g		
yrsniu	double	%12.0g		
yrsoth	float	%9.0g		
merit	double	%12.0g		
saladj	byte	%8.0g		
seadj	byte	%8.0g		
profship	byte	%8.0g		
RKST_FULL	byte	%8.0g		
RKST_ASSOC	byte	%8.0g		
CUPA_NAT	double	%12.0g		
CUPA_NIU	double	%12.0g		
CUPA_NATR	double	%12.0g		
yearstart	int	%8.0g		
quiet	float	%9.0g		
quietTOP	float	%9.0g		
quiet2ND	float	%9.0g		
quietMID	float	%9.0g		
quiet4TH	float	%9.0g		
quietBOT	float	%9.0g		
lmorate	float	%9.0g		
cupa000	float	%9.0g		
whmale	float	%9.0g		
RKST_ASSIST	float	%9.0g		
assist	float	%9.0g		
salstart	float	%9.0g		
BUS	float	%9.0g		
EDUC	float	%9.0g		
CEET	float	%9.0g		
HHS	float	%9.0g		
LAW	float	%9.0g		
VPA	float	%9.0g		
LIB	float	%9.0g		
PHYSSCI	float	%9.0g		
BEHAVSOC	float	%9.0g		
HUMAN	float	%9.0g		

Productivity

Sorted by: quint
 Note: Dataset has changed since last saved.

. summarize quintTOP quintBOT saladj seadj profship

Variable	Obs	Mean	Std. Dev.	Min	Max
quintTOP	575	.1930435	.3950305	0	1
quintBOT	575	.2052174	.404212	0	1
saladj	575	.0313043	.1742906	0	1
seadj	575	.0886957	.2845515	0	1
profship	575	.08	.2715294	0	1

. by quintTOP, sort: summarize morate

-> quintTOP = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	464	8713.886	2596.64	4084	19444.46

-> quintTOP = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	111	8926.764	2409.631	4573.34	16303

. by quintBOT, sort: summarize morate

-> quintBOT = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	457	8755.715	2517.815	4084	19444.46

-> quintBOT = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	118	8752.137	2732.81	4333.34	17801.28

. by saladj, sort: summarize morate

-> saladj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	557	8742.857	2569.913	4084	19444.46

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-> saladj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	18	9130.132	2299.104	6216.14	15876

. by seadj, sort: summarize morate

-> seadj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	524	8658.113	2629.183	4084	19444.46

-> seadj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	51	9750.245	1369.855	7331.54	13064.54

. by profship, sort: summarize morate if full==1

-> profship = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	146	10089.44	2378.154	5403.8	16618.86

-> profship = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	46	11051.57	2048.855	8537.92	19444.46

. * WHITE MALE FACULTY MEMBERS ONLY

. keep if whmale==1

(320 observations deleted)

. summarize qui ntTOP qui ntBOT saladj seadj profship

Variable	Obs	Mean	Std. Dev.	Min	Max
qui ntTOP	255	.1882353	.3916687	0	1
qui ntBOT	255	.2039216	.4037037	0	1
saladj	255	.0235294	.1518757	0	1
seadj	255	.1098039	.31326	0	1
profship	255	.1098039	.31326	0	1

Productivity

```
. clear all
. * FEMALE FACULTY MEMBERS
. use C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B
. keep if whmale==1 | female==1
(72 observations deleted)
. by quintTOP, sort: ttest morate, by(female)
```

-> quintTOP = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	207	8996.494	171.3334	2465.058	8658.702 9334.285
1	195	8334.326	196.6502	2746.071	7946.479 8722.173
combined	402	8675.293	130.8184	2622.901	8418.117 8932.468
diff		662.1678	259.9807		151.0684 1173.267

diff = mean(0) - mean(1) t = 2.5470
Ho: diff = 0 degrees of freedom = 400

Ha: diff < 0 Pr(T < t) = 0.9944
Ha: diff != 0 Pr(|T| > |t|) = 0.0112
Ha: diff > 0 Pr(T > t) = 0.0056

-> quintTOP = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	48	9450.097	421.4813	2920.108	8602.187 10298.01
1	53	8271.562	220.2059	1603.123	7829.687 8713.438
combined	101	8831.658	237.4359	2386.201	8360.592 9302.724
diff		1178.535	462.9372		259.9674 2097.103

diff = mean(0) - mean(1) t = 2.5458
Ho: diff = 0 degrees of freedom = 99

Ha: diff < 0 Pr(T < t) = 0.9938
Ha: diff != 0 Pr(|T| > |t|) = 0.0124
Ha: diff > 0 Pr(T > t) = 0.0062

```
. by quintBOT, sort: ttest morate, by(female)
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-> quintBOT = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
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                                Productivity
    0 |      203      9154.286      180.0979      2566.001      8799.173      9509.399
    1 |      198      8254.878      169.0119      2378.208      7921.573      8588.183
-----+-----
combined |      401      8710.189      125.4749      2512.633      8463.517      8956.862
-----+-----
diff |              899.4081      247.2166              413.3982      1385.418
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 3.6381
                                degrees of freedom = 399

Ha: diff < 0      Pr(T < t) = 0.9998
Ha: diff != 0     Pr(|T| > |t|) = 0.0003
Ha: diff > 0     Pr(T > t) = 0.0002

```

-> quintBOT = 1

Two-sample t test with equal variances

```

Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
    0 |      52      8799.208      350.2255      2525.512      8096.101      9502.315
    1 |      50      8582.41      441.8193      3124.134      7694.541      9470.28
-----+-----
combined |     102      8692.935      279.49      2822.711      8138.501      9247.368
-----+-----
diff |              216.7973      561.4576              -897.1187      1330.713
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 0.3861
                                degrees of freedom = 100

Ha: diff < 0      Pr(T < t) = 0.6499
Ha: diff != 0     Pr(|T| > |t|) = 0.7002
Ha: diff > 0     Pr(T > t) = 0.3501

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. by saladj, sort: ttest morate, by(female)

-> saladj = 0

Two-sample t test with equal variances

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Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
    0 |     249      9027.223      160.7608      2536.763      8710.592      9343.854
    1 |     238      8348.843      167.7807      2588.395      8018.311      8679.375
-----+-----
combined |     487      8695.694      116.997      2581.898      8465.812      8925.577
-----+-----
diff |              678.3804      232.2611              222.0182      1134.743
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 2.9208
                                degrees of freedom = 485

Ha: diff < 0      Pr(T < t) = 0.9982
Ha: diff != 0     Pr(|T| > |t|) = 0.0037
Ha: diff > 0     Pr(T > t) = 0.0018

```

-> saladj = 1

Two-sample t test with equal variances

Group	Obs	Mean	Productivity		[95% Conf. Interval]	
			Std. Err.	Std. Dev.		
0	6	11350.06	1049.055	2569.651	8653.377	14046.74
1	10	7656.182	218.2146	690.0551	7162.546	8149.818
combined	16	9041.386	607.1411	2428.564	7747.296	10335.48
diff		3693.878	842.91		1886.016	5501.74

diff = mean(0) - mean(1) t = 4.3823
 Ho: diff = 0 degrees of freedom = 14

Ha: diff < 0 Pr(T < t) = 0.9997
 Ha: diff != 0 Pr(|T| > |t|) = 0.0006
 Ha: diff > 0 Pr(T > t) = 0.0003

. by seadj, sort: ttest morate, by(female)

-> seadj = 0

Two-sample t test with equal variances

Group	Obs	Mean	Productivity		[95% Conf. Interval]	
			Std. Err.	Std. Dev.		
0	227	8963.645	175.1361	2638.692	8618.537	9308.754
1	230	8235.112	171.6728	2603.547	7896.852	8573.372
combined	457	8596.987	123.6558	2643.459	8353.981	8839.993
diff		728.5335	245.2215		246.6263	1210.441

diff = mean(0) - mean(1) t = 2.9709
 Ho: diff = 0 degrees of freedom = 455

Ha: diff < 0 Pr(T < t) = 0.9984
 Ha: diff != 0 Pr(|T| > |t|) = 0.0031
 Ha: diff > 0 Pr(T > t) = 0.0016

-> seadj = 1

Two-sample t test with equal variances

Group	Obs	Mean	Productivity		[95% Conf. Interval]	
			Std. Err.	Std. Dev.		
0	28	10040.41	277.1761	1466.678	9471.688	10609.12
1	18	9417.258	262.8709	1115.267	8862.649	9971.867
combined	46	9796.566	200.8201	1362.028	9392.093	10201.04
diff		623.1487	405.3879		-193.8569	1440.154

diff = mean(0) - mean(1) t = 1.5372
 Ho: diff = 0 degrees of freedom = 44

Ha: diff < 0 Pr(T < t) = 0.9343
 Ha: diff != 0 Pr(|T| > |t|) = 0.1314
 Ha: diff > 0 Pr(T > t) = 0.0657

. by profship, sort: ttest morate if full==1, by(female)

Productivity

-> profship = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	84	10360.96	265.6607	2434.821	9832.574	10889.35
1	43	9745.527	350.6751	2299.53	9037.836	10453.22
combined	127	10152.59	212.8415	2398.602	9731.38	10573.79
diff		615.4349	448.1933		-271.5953	1502.465

diff = mean(0) - mean(1) t = 1.3731
 Ho: diff = 0 degrees of freedom = 125

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9139 Pr(|T| > |t|) = 0.1722 Pr(T > t) = 0.0861

-> profship = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	28	11388.14	406.0341	2148.53	10555.03	12221.26
1	13	10319.79	506.3832	1825.791	9216.475	11423.1
combined	41	11049.4	326.4482	2090.289	10389.62	11709.17
diff		1068.353	689.5653		-326.4245	2463.13

diff = mean(0) - mean(1) t = 1.5493
 Ho: diff = 0 degrees of freedom = 39

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9353 Pr(|T| > |t|) = 0.1294 Pr(T > t) = 0.0647

. keep if female==1
 (255 observations deleted)

. summarize qui ntTOP qui ntBOT sal adj seadj profship

Variable	Obs	Mean	Std. Dev.	Min	Max
qui ntTOP	248	.2137097	.4107532	0	1
qui ntBOT	248	.2016129	.4020159	0	1
sal adj	248	.0403226	.1971125	0	1
seadj	248	.0725806	.2599716	0	1
profship	248	.0524194	.2233219	0	1

. by qui ntTOP, sort: summarize morate

-> qui ntTOP = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	195	8334.326	2746.071	4084	17812

Productivity

-> qui ntTOP = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	53	8271.562	1603.123	5666.68	13159.1

. by qui ntBOT, sort: summarize morate

-> qui ntBOT = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	198	8254.878	2378.208	4084	17812

-> qui ntBOT = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	50	8582.41	3124.134	4333.34	17801.28

. by sal adj, sort: summarize morate

-> sal adj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	238	8348.843	2588.395	4084	17812

-> sal adj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	10	7656.182	690.0551	6216.14	8794.14

. by seadj, sort: summarize morate

-> seadj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	230	8235.112	2603.547	4084	17812

-> seadj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max

Productivity					
morate	18	9417.258	1115.267	7338.98	11813.86

. by profship, sort: summarize morate if full==1

-

-> profship = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	43	9745.527	2299.53	5603.22	16321.5

-

-> profship = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	13	10319.79	1825.791	8537.92	15681.02

. clear all

. * ASIAN FACULTY MEMBERS ONLY
 . use C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

. keep if whmale==1 | asian==1
 (233 observations deleted)

. by quintTOP, sort: ttest morate, by(asian)

-

-> quintTOP = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	207	8996.494	171.3334	2465.058	8658.702	9334.285
1	67	9045.431	354.1167	2898.57	8338.414	9752.448
combined	274	9008.46	155.3995	2572.32	8702.526	9314.394
diff		-48.93732	362.2097		-762.0281	664.1535

diff = mean(0) - mean(1) t = -0.1351
 Ho: diff = 0 degrees of freedom = 272

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.4463 Pr(|T| > |t|) = 0.8926 Pr(T > t) = 0.5537

-

-> quintTOP = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
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                                Productivity
    0 |      48    9450.097    421.4813    2920.108    8602.187    10298.01
    1 |      20    8913.757    497.0482    2222.867    7873.423    9954.091
-----+-----
combined |      68    9292.35    330.8518    2728.274    8631.967    9952.733
-----+-----
diff |              536.3405    728.6127              -918.3818    1991.063
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 0.7361
                                degrees of freedom = 66

    Ha: diff < 0
    Pr(T < t) = 0.7679

    Ha: diff != 0
    Pr(|T| > |t|) = 0.4643

    Ha: diff > 0
    Pr(T > t) = 0.2321

```

```
. by quintBOT, sort: ttest morate, by(asian)
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```
-> quintBOT = 0
```

```
Two-sample t test with equal variances
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-----+-----
Group |      Obs      Mean    Std. Err.    Std. Dev.    [95% Conf. Interval]
-----+-----
    0 |      203    9154.286    180.0979    2566.001    8799.173    9509.399
    1 |       70    9008.787    325.4968    2723.302    8359.439    9658.136
-----+-----
combined |      273    9116.979    157.5367    2602.934    8806.832    9427.125
-----+-----
diff |              145.499    361.3411              -565.8936    856.8915
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 0.4027
                                degrees of freedom = 271

    Ha: diff < 0
    Pr(T < t) = 0.6562

    Ha: diff != 0
    Pr(|T| > |t|) = 0.6875

    Ha: diff > 0
    Pr(T > t) = 0.3438

```

```
-> quintBOT = 1
```

```
Two-sample t test with equal variances
```

```

-----+-----
Group |      Obs      Mean    Std. Err.    Std. Dev.    [95% Conf. Interval]
-----+-----
    0 |       52    8799.208    350.2255    2525.512    8096.101    9502.315
    1 |       17    9041.407    709.4872    2925.291    7537.361    10545.45
-----+-----
combined |       69    8858.88    314.1171    2609.253    8232.069    9485.691
-----+-----
diff |      -242.1994    733.8018              -1706.874    1222.475
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = -0.3301
                                degrees of freedom = 67

    Ha: diff < 0
    Pr(T < t) = 0.3712

    Ha: diff != 0
    Pr(|T| > |t|) = 0.7424

    Ha: diff > 0
    Pr(T > t) = 0.6288

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```
. by saladj, sort: ttest morate, by(asian)
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```
-> saladj = 0
```


Productiv ity

-> seadj = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	28	10040.41	277.1761	1466.678	9471.688	10609.12
1	4	9801.735	630.8228	1261.646	7794.175	11809.29
combined	32	10010.57	252.1191	1426.201	9496.372	10524.77
diff		238.6714	773.7119		-1341.459	1818.802

diff = mean(0) - mean(1) t = 0.3085
 Ho: diff = 0 degrees of freedom = 30

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.6201 Pr(|T| > |t|) = 0.7599 Pr(T > t) = 0.3799

. by profship, sort: ttest morate if full==1, by(asian)

-> profship = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	84	10360.96	265.6607	2434.821	9832.574	10889.35
1	19	10053.38	615.6677	2683.633	8759.913	11346.85
combined	103	10304.22	243.5447	2471.709	9821.155	10787.29
diff		307.5792	630.2711		-942.7092	1557.868

diff = mean(0) - mean(1) t = 0.4880
 Ho: diff = 0 degrees of freedom = 101

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.6867 Pr(|T| > |t|) = 0.6266 Pr(T > t) = 0.3133

-> profship = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	28	11388.14	406.0341	2148.53	10555.03	12221.26
1	4	11176.84	1076.12	2152.24	7752.146	14601.53
combined	32	11361.73	373.9092	2115.15	10599.14	12124.32
diff		211.3021	1148.636		-2134.526	2557.13

diff = mean(0) - mean(1) t = 0.1840
 Ho: diff = 0 degrees of freedom = 30

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.5724 Pr(|T| > |t|) = 0.8553 Pr(T > t) = 0.4276

Productivity

. keep if asian==1
(255 observations deleted)

. summarize qui ntTOP qui ntBOT sal adj seadj profship

Variable	Obs	Mean	Std. Dev.	Min	Max
qui ntTOP	87	.2298851	.4231979	0	1
qui ntBOT	87	.1954023	.3988087	0	1
sal adj	87	.0229885	.1507355	0	1
seadj	87	.045977	.2106494	0	1
profship	87	.045977	.2106494	0	1

. by qui ntTOP, sort: summarize morate

-> qui ntTOP = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	67	9045.431	2898.57	4333.34	16443.94

-> qui ntTOP = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	20	8913.757	2222.867	6204.8	13333.34

. by qui ntBOT, sort: summarize morate

-> qui ntBOT = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	70	9008.787	2723.302	4333.34	16443.94

-> qui ntBOT = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	17	9041.407	2925.291	5603.22	16110.7

. by sal adj, sort: summarize morate

-> sal adj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	85	8995.751	2775.341	4333.34	16443.94

Productivity

-> saladj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	2	9840.1	506.8824	9481.68	10198.52

. by seadj, sort: summarize morate

-> seadj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	83	8977.254	2796.54	4333.34	16443.94

-> seadj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	4	9801.735	1261.646	8055.56	10968.64

. by profship, sort: summarize morate if full==1

-> profship = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	19	10053.38	2683.633	5603.22	16110.7

-> profship = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	4	11176.84	2152.24	9481.68	14269.56

. clear all

. * BLACK FACULTY MEMBERS ONLY

. use C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

. keep if whmale==1 | black==1
(296 observations deleted)

. *by quintTOP, sort: ttest morate, by(black)

. by quintBOT, sort: ttest morate, by(black)

-> quintBOT = 0

Two-sample t test with equal variances

Productivity

-> profship = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	84	10360.96	265.6607	2434.821	9832.574	10889.35
1	7	8788.009	491.5169	1300.432	7585.31	9990.707
combined	91	10239.97	251.5366	2399.507	9740.244	10739.69
diff		1572.954	934.4915		-283.8608	3429.768

diff = mean(0) - mean(1) t = 1.6832
 Ho: diff = 0 degrees of freedom = 89

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9521 Pr(|T| > |t|) = 0.0958 Pr(T > t) = 0.0479

-> profship = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	28	11388.14	406.0341	2148.53	10555.03	12221.26
1	2	10096.66	543.06	768.0028	3196.428	16996.89
combined	30	11302.04	384.0801	2103.693	10516.51	12087.58
diff		1291.482	1547.876		-1879.198	4462.162

diff = mean(0) - mean(1) t = 0.8344
 Ho: diff = 0 degrees of freedom = 28

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.7944 Pr(|T| > |t|) = 0.4111 Pr(T > t) = 0.2056

. keep if black==1
 (255 observations deleted)

. summarize qui ntTOP qui ntBOT sal adj seadj profship

Variable	Obs	Mean	Std. Dev.	Min	Max
qui ntTOP	24	0	0	0	0
qui ntBOT	24	.3333333	.4815434	0	1
sal adj	24	.0416667	.2041241	0	1
seadj	24	.0416667	.2041241	0	1
profship	24	.0833333	.2823299	0	1

. by qui ntTOP, sort: summarize morate

-> qui ntTOP = 0

Variable	Obs	Productivity		Min	Max
		Mean	Std. Dev.		
morate	24	8111.789	1160.922	6662.72	11000

. by qui ntBOT, sort: summarize morate

-> qui ntBOT = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	16	7930.544	1107.996	6662.72	10639.72

-> qui ntBOT = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	8	8474.28	1253.932	6888.9	11000

. by sal adj, sort: summarize morate

-> sal adj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	23	8111.3	1187.011	6662.72	11000

-> sal adj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	1	8123.04	.	8123.04	8123.04

. by seadj, sort: summarize morate

-> seadj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	23	8049.102	1144.728	6662.72	11000

-> seadj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	1	9553.6	.	9553.6	9553.6

. by profship, sort: summarize morate if full==1


```

          Producti vi ty
di ff |          -184. 0325      1255. 628          -2703. 635      2335. 57
-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
          t = -0.1466
          degrees of freedom = 52

```

```

          Ha: di ff < 0
Pr(T < t) = 0.4420
          Ha: di ff != 0
Pr(|T| > |t|) = 0.8840
          Ha: di ff > 0
Pr(T > t) = 0.5580

```

```

. by quintBOT, sort: ttest morate, by(hi sp)

```

```

-
-> quintBOT = 0

```

```

Two-sample t test with equal variances

```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	203	9154.286	180.0979	2566.001	8799.173 9509.399
1	18	8413.539	452.4874	1919.742	7458.874 9368.204
combined	221	9093.954	169.797	2524.214	8759.317 9428.591
di ff		740.7472	620.1795		-481.5369 1963.031

```

di ff = mean(0) - mean(1)
Ho: di ff = 0
          t = 1.1944
          degrees of freedom = 219

```

```

          Ha: di ff < 0
Pr(T < t) = 0.8832
          Ha: di ff != 0
Pr(|T| > |t|) = 0.2336
          Ha: di ff > 0
Pr(T > t) = 0.1168

```

```

-
-> quintBOT = 1

```

```

Two-sample t test with equal variances

```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	52	8799.208	350.2255	2525.512	8096.101 9502.315
1	1	8386.04	.	.	.
combined	53	8791.412	.	.	.
di ff		413.1677	.	.	.

```

di ff = mean(0) - mean(1)
Ho: di ff = 0
          t = .
          degrees of freedom = 51

```

```

          Ha: di ff < 0
Pr(T < t) = .
          Ha: di ff != 0
Pr(|T| > |t|) = .
          Ha: di ff > 0
Pr(T > t) = .

```

```

. *by saladj, sort: ttest morate, by(hi sp)
. by seadj, sort: ttest morate, by(hi sp)

```

```

-
-> seadj = 0

```

```

Two-sample t test with equal variances

```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
-------	-----	------	-----------	-----------	----------------------

```

                                Productivity
    0 |      227      8963.645      175.1361      2638.692      8618.537      9308.754
    1 |       17      8452.654      475.6269      1961.06       7444.37      9460.938
-----+-----
combined |      244      8928.044      166.2731      2597.269      8600.523      9255.564
-----+-----
diff |              510.9913      653.6151              -776.5097      1798.492
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 0.7818
                                degrees of freedom = 242

Ha: diff < 0
Pr(T < t) = 0.7824

Ha: diff != 0
Pr(|T| > |t|) = 0.4351

Ha: diff > 0
Pr(T > t) = 0.2176

```

```
-> seadj = 1
```

```
Two-sample t test with equal variances
```

```

Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
    0 |      28     10040.41     277.1761     1466.678     9471.688     10609.12
    1 |       2      8067.31     653.77     924.5704    -239.6255     16374.25
-----+-----
combined |      30     9908.867     275.8537     1510.913     9344.682     10473.05
-----+-----
diff |              1973.096     1061.884              -202.074     4148.267
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 1.8581
                                degrees of freedom = 28

Ha: diff < 0
Pr(T < t) = 0.9632

Ha: diff != 0
Pr(|T| > |t|) = 0.0737

Ha: diff > 0
Pr(T > t) = 0.0368

```

```
. by profship, sort: ttest morate if full==1, by(hisp)
```

```
-> profship = 0
```

```
Two-sample t test with equal variances
```

```

Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
    0 |      84     10360.96     265.6607     2434.821     9832.574     10889.35
    1 |       3      8120.327     354.4192     613.872     6595.384     9645.269
-----+-----
combined |      87     10283.7     260.4021     2428.869     9766.037     10801.36
-----+-----
diff |              2240.636     1414.778              -572.3217     5053.593
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 1.5837
                                degrees of freedom = 85

Ha: diff < 0
Pr(T < t) = 0.9415

Ha: diff != 0
Pr(|T| > |t|) = 0.1170

Ha: diff > 0
Pr(T > t) = 0.0585

```

```
-> profship = 1
```

```
Two-sample t test with equal variances
```


Productivity

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	1	8386.04	.	8386.04	8386.04

. by saladj, sort: summarize morate

-> saladj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	19	8412.092	1865.664	6558.14	13159.1

. by seadj, sort: summarize morate

-> seadj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	17	8452.654	1961.06	6558.14	13159.1

-> seadj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	2	8067.31	924.5704	7413.54	8721.08

. by profship, sort: summarize morate if full==1

-> profship = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	3	8120.327	613.872	7418.36	8556.58

-> profship = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	2	9242.97	738.0639	8721.08	9764.86

. clear all

* BLACK & HISPANIC FACULTY MEMBERS
 use C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

. gen blackhisps=0

. replace blackhisps=1 if black==1 | hisps==1
 (43 real changes made)

Productiv ity

. keep if whmal e==1 | blckhi sp==1
(277 observations deleted)

. by quintTOP, sort: ttest morate, by(blckhi sp)

-> quintTOP = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	207	8996.494	171.3334	2465.058	8658.702	9334.285
1	37	8019.132	183.1232	1113.895	7647.741	8390.523
combined	244	8848.287	149.5689	2336.341	8553.67	9142.904
diff		977.3613	413.1193		163.5927	1791.13

diff = mean(0) - mean(1) t = 2.3658
 Ho: diff = 0 degrees of freedom = 242

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9906 Pr(|T| > |t|) = 0.0188 Pr(T > t) = 0.0094

-> quintTOP = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	48	9450.097	421.4813	2920.108	8602.187	10298.01
1	6	9634.13	1102.632	2700.886	6799.724	12468.54
combined	54	9470.546	390.9462	2872.856	8686.407	10254.68
diff		-184.0325	1255.628		-2703.635	2335.57

diff = mean(0) - mean(1) t = -0.1466
 Ho: diff = 0 degrees of freedom = 52

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.4420 Pr(|T| > |t|) = 0.8840 Pr(T > t) = 0.5580

. by quintBOT, sort: ttest morate, by(blckhi sp)

-> quintBOT = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	203	9154.286	180.0979	2566.001	8799.173	9509.399
1	34	8186.247	272.0537	1586.332	7632.75	8739.744
combined	237	9015.411	160.475	2470.482	8699.265	9331.558

```

          diff |          968.039      Productivity      72.82447      1863.254
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
          t = 2.1304
          degrees of freedom = 235

      Ha: diff < 0
      Pr(T < t) = 0.9829
          Ha: diff != 0
      Pr(|T| > |t|) = 0.0342
          Ha: diff > 0
      Pr(T > t) = 0.0171

```

```

-> quintBOT = 1

```

```

Two-sample t test with equal variances

```

```

-----+-----
      Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
          0 |         52      8799.208      350.2255      2525.512      8096.101      9502.315
          1 |          9      8464.476      391.1049      1173.315      7562.586      9366.365
-----+-----
combi ned |         61      8749.821      303.5139      2370.519      8142.703      9356.939
-----+-----
      diff |          334.7321      861.9475          -1390.021      2059.485
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
          t = 0.3883
          degrees of freedom = 59

      Ha: diff < 0
      Pr(T < t) = 0.6504
          Ha: diff != 0
      Pr(|T| > |t|) = 0.6992
          Ha: diff > 0
      Pr(T > t) = 0.3496

```

```

. by saladj, sort: ttest morate, by(blckhisp)

```

```

-> saladj = 0

```

```

Two-sample t test with equal variances

```

```

-----+-----
      Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
          0 |        249      9027.223      160.7608      2536.763      8710.592      9343.854
          1 |         42      8247.372      234.3746      1518.921      7774.043      8720.701
-----+-----
combi ned |        291      8914.667      142.447      2429.964      8634.306      9195.028
-----+-----
      diff |          779.8506      403.4433          -14.20918      1573.91
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
          t = 1.9330
          degrees of freedom = 289

      Ha: diff < 0
      Pr(T < t) = 0.9729
          Ha: diff != 0
      Pr(|T| > |t|) = 0.0542
          Ha: diff > 0
      Pr(T > t) = 0.0271

```

```

-> saladj = 1

```

```

Two-sample t test with equal variances

```

```

-----+-----
      Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
          0 |          6     11350.06     1049.055      2569.651      8653.377     14046.74
          1 |          1      8123.04
-----+-----

```

```

Producti vi ty
combi ned |      7    10889.06
-----+-----
di ff |      3227.02
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom = 5
t =
Ha: di ff < 0
Pr(T < t) =
Ha: di ff != 0
Pr(|T| > |t|) =
Ha: di ff > 0
Pr(T > t) =
. by seadj, sort: ttest morate, by(bl ckhi sp)

```

```

-
-> seadj = 0

```

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      227   8963.645   175.1361   2638.692   8618.537   9308.754
1 |      40    8220.612   242.7841   1535.502   7729.534   8711.689
-----+-----
combi ned |      267   8852.329   153.9972   2516.335   8549.121   9155.538
-----+-----
di ff |      743.0339   429.8975
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom = 265
t = 1.7284
Ha: di ff < 0
Pr(T < t) = 0.9575
Ha: di ff != 0
Pr(|T| > |t|) = 0.0851
Ha: di ff > 0
Pr(T > t) = 0.0425

```

```

-
-> seadj = 1

```

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      28   10040.41   277.1761   1466.678   9471.688   10609.12
1 |      3    8562.74    622.8343   1078.781   5882.9    11242.58
-----+-----
combi ned |      31   9897.406   267.0529   1486.887   9352.012   10442.8
-----+-----
di ff |      1477.666   876.7809
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom = 29
t = 1.6853
Ha: di ff < 0
Pr(T < t) = 0.9487
Ha: di ff != 0
Pr(|T| > |t|) = 0.1027
Ha: di ff > 0
Pr(T > t) = 0.0513

```

```

. by profshp, sort: ttest morate if full==1, by(bl ckhi sp)

```

```

-
-> profshp = 0

```

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----

```


Variable	Obs	Productivity		Min	Max
		Mean	Std. Dev.		
morate	6	9634.13	2700.886	7413.54	13159.1

. by qui ntBOT, sort: summarize morate

-> qui ntBOT = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	34	8186.247	1586.332	6558.14	13159.1

-> qui ntBOT = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	9	8464.476	1173.315	6888.9	11000

. by sal adj, sort: summarize morate

-> sal adj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	42	8247.372	1518.921	6558.14	13159.1

-> sal adj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	1	8123.04	.	8123.04	8123.04

. by seadj, sort: summarize morate

-> seadj = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	40	8220.612	1535.502	6558.14	13159.1

-> seadj = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	3	8562.74	1078.781	7413.54	9553.6

. by profship, sort: summarize morate if full==1

Productiviti

-> profship = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	10	8587.704	1146.811	7260.08	11000

-> profship = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
morate	4	9669.815	788.1102	8721.08	10639.72

. clear all

. ***** CLOSE OUTPUT

. log close

name: <unnamed>

log: C:\Users\TA0VLW1\Desktop\WORKING\PROGRAMS\ReportTables\Productiviti.log

log type: text

closed on: 12 Nov 2017, 19:06:21