

RankStart

```
-----  
-----  
      name: <unnamed>  
      log:  
C: \Users\TAOVLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\PROGRAMS\ReportTabl  
> es\RankStart.log  
      log type: text  
      opened on: 9 Mar 2018, 15:49:12  
  
. **** USE DATA SET *****  
. use  
C: \Users\TAOVLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\DATA\FINAL\FSS2015-1  
6C  
  
. 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==35 | dept==4  
> 1  
(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
```

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(84 real changes made)

. gen HUMAN=0

. 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\Documents\FACULTY_SALARY_STUDY\WORKING\DATA\FINAL\FS
 > S2015-16C.dta

obs: 575
 vars: 91 22 Nov 2017 15:27
 size: 129,950

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		
yrsniu2	float	%9.0g		
yrsoth2	float	%9.0g		
dept1	byte	%8.0g	dept== 1.0000	
dept2	byte	%8.0g	dept== 2.0000	

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dept3	byte	%8.0g	dept==	3.0000
dept4	byte	%8.0g	dept==	4.0000
dept5	byte	%8.0g	dept==	5.0000
dept6	byte	%8.0g	dept==	6.0000
dept7	byte	%8.0g	dept==	7.0000
dept8	byte	%8.0g	dept==	8.0000
dept9	byte	%8.0g	dept==	9.0000
dept10	byte	%8.0g	dept==	10.0000
dept11	byte	%8.0g	dept==	11.0000
dept12	byte	%8.0g	dept==	13.0000
dept13	byte	%8.0g	dept==	14.0000
dept14	byte	%8.0g	dept==	15.0000
dept15	byte	%8.0g	dept==	16.0000
dept16	byte	%8.0g	dept==	17.0000
dept17	byte	%8.0g	dept==	18.0000
dept18	byte	%8.0g	dept==	19.0000
dept19	byte	%8.0g	dept==	20.0000
dept20	byte	%8.0g	dept==	21.0000
dept21	byte	%8.0g	dept==	22.0000
dept22	byte	%8.0g	dept==	23.0000
dept23	byte	%8.0g	dept==	24.0000
dept24	byte	%8.0g	dept==	25.0000
dept25	byte	%8.0g	dept==	26.0000
dept26	byte	%8.0g	dept==	27.0000
dept27	byte	%8.0g	dept==	28.0000
dept28	byte	%8.0g	dept==	29.0000
dept29	byte	%8.0g	dept==	30.0000
dept30	byte	%8.0g	dept==	31.0000
dept31	byte	%8.0g	dept==	32.0000
dept32	byte	%8.0g	dept==	34.0000
dept33	byte	%8.0g	dept==	35.0000
dept34	byte	%8.0g	dept==	36.0000
dept35	byte	%8.0g	dept==	38.0000
dept36	byte	%8.0g	dept==	39.0000
dept37	byte	%8.0g	dept==	40.0000
dept38	byte	%8.0g	dept==	41.0000
dept39	byte	%8.0g	dept==	42.0000
dept40	byte	%8.0g	dept==	43.0000
dept41	byte	%8.0g	dept==	44.0000
dept42	byte	%8.0g	dept==	45.0000
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		

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

. summarize RKST_FULL RKST_ASSOC RKST_ASSIST

Variable	Obs	Mean	Std. Dev.	Min	Max
RKST_FULL	575	.026087	.1595327	0	1
RKST_ASSOC	575	.0765217	.2660625	0	1
RKST_ASSIST	575	.8973913	.3037113	0	1

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. by full, sort: summarize RKST_FULL RKST_ASSOC RKST_ASSIST

 -> full = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
RKST_FULL	383	.002611	.0510976	0	1
RKST_ASSOC	383	.0234987	.1516792	0	1
RKST_ASSIST	383	.9738903	.15967	0	1

 -> full = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
RKST_FULL	192	.0729167	.2606794	0	1
RKST_ASSOC	192	.1822917	.3870941	0	1
RKST_ASSIST	192	.7447917	.4371181	0	1

. by assoc, sort: summarize RKST_FULL RKST_ASSOC RKST_ASSIST

 -> assoc = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
RKST_FULL	319	.0438871	.2051658	0	1
RKST_ASSOC	319	.1097179	.3130288	0	1
RKST_ASSIST	319	.846395	.3611362	0	1

 -> assoc = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
RKST_FULL	256	.0039063	.0625	0	1
RKST_ASSOC	256	.0351563	.1845354	0	1
RKST_ASSIST	256	.9609375	.1941232	0	1

. by assist, sort: summarize RKST_FULL RKST_ASSOC RKST_ASSIST

 -> assist = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
RKST_FULL	448	.0334821	.180093	0	1
RKST_ASSOC	448	.0982143	.2979369	0	1
RKST_ASSIST	448	.8683036	.3385385	0	1

 -> assist = 1

Variable	Obs	RankStart		Min	Max
		Mean	Std. Dev.		
RKST_FULL	127	0	0	0	0
RKST_ASSOC	127	0	0	0	0
RKST_ASSIST	127	1	0	1	1

. by RKST_FULL, sort: summarize sal start morate

 -> RKST_FULL = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
sal start morate	555	8136.409	3910.059	1199.88	32521.98
	560	8687.314	2531.257	4084	19444.46

 -> RKST_FULL = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
sal start morate	15	8559.202	3716.018	3768.649	18195.69
	15	11281.19	2458.227	4930.32	14269.56

. by RKST_ASSOC, sort: summarize sal start morate

 -> RKST_ASSOC = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
sal start morate	526	8105.025	3915.901	1199.88	32521.98
	531	8597.061	2487.861	4084	17812

 -> RKST_ASSOC = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
sal start morate	44	8655.728	3744.721	2348.28	25021.71
	44	10660.79	2689.712	7480.8	19444.46

. by RKST_ASSIST, sort: summarize sal start morate

 -> RKST_ASSIST = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
sal start morate	59	8631.188	3705.572	2348.28	25021.71
	59	10818.52	2626.101	4930.32	19444.46

RankStart

-> RKST_ASSIST = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
salstart	511	8091.693	3924.28	1199.88	32521.98
morate	516	8519.034	2447.348	4084	17812

.
 . * T-TESTS FOR MORATE
 . * FEMALE FACULTY MEMBERS
 . keep if female==1 | whmale==1
 (72 observations deleted)

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

-> RKST_FULL = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	245	8974.493	161.4319	2526.809	8656.515 9292.471
1	245	8313.331	162.0024	2535.739	7994.23 8632.433
combined	490	8643.912	115.2085	2550.249	8417.547 8870.277
diff		661.1616	228.703		211.7975 1110.526

diff = mean(0) - mean(1) t = 2.8909
 Ho: diff = 0 degrees of freedom = 488

Ha: diff < 0 Pr(T < t) = 0.9980
 Ha: diff != 0 Pr(|T| > |t|) = 0.0040
 Ha: diff > 0 Pr(T > t) = 0.0020

-> RKST_FULL = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	10	11712.81	583.3078	1844.581	10393.28 13032.35
1	3	8940.067	2108.042	3651.236	-130.1055 18010.24
combined	13	11072.95	693.5009	2500.453	9561.94 12583.96
diff		2772.747	1502.23		-533.6394 6079.134

diff = mean(0) - mean(1) t = 1.8458
 Ho: diff = 0 degrees of freedom = 11

Ha: diff < 0 Pr(T < t) = 0.9540
 Ha: diff != 0 Pr(|T| > |t|) = 0.0920
 Ha: diff > 0 Pr(T > t) = 0.0460

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

RankStart

-> RKST_ASSOC = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	223	8775.695	158.1951	2362.357	8463.938	9087.451
1	240	8292.708	165.7596	2567.936	7966.172	8619.244
combined	463	8525.334	115.2643	2480.192	8298.827	8751.842
diff		482.9864	229.836		31.33033	934.6424

diff = mean(0) - mean(1) t = 2.1014
 Ho: diff = 0 degrees of freedom = 461

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9819 Pr(|T| > |t|) = 0.0361 Pr(T > t) = 0.0181

-> RKST_ASSOC = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	32	11215.59	507.0399	2868.251	10181.48	12249.71
1	8	9167.05	513.8171	1453.294	7952.066	10382.03
combined	40	10805.89	436.092	2758.088	9923.806	11687.96
diff		2048.544	1053.302		-83.75509	4180.843

diff = mean(0) - mean(1) t = 1.9449
 Ho: diff = 0 degrees of freedom = 38

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9704 Pr(|T| > |t|) = 0.0592 Pr(T > t) = 0.0296

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

-> RKST_ASSIST = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	42	11333.98	408.6312	2648.233	10508.73	12159.23
1	11	9105.145	614.6685	2038.625	7735.579	10474.71
combined	53	10871.39	367.5923	2676.112	10133.76	11609.02
diff		2228.834	860.389		501.5311	3956.137

diff = mean(0) - mean(1) t = 2.5905
 Ho: diff = 0 degrees of freedom = 51

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9938 Pr(|T| > |t|) = 0.0125 Pr(T > t) = 0.0062

RankStart

-> RKST_ASSIST = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	213	8637.802	157.3475	2296.411	8327.635 8947.968
1	237	8284.514	166.3679	2561.201	7956.758 8612.27
combined	450	8451.737	115.1715	2443.156	8225.395 8678.079
diff		353.2878	230.3245		-99.3628 805.9385

diff = mean(0) - mean(1) t = 1.5339
 Ho: diff = 0 degrees of freedom = 448

Ha: diff < 0 Pr(T < t) = 0.9371
 Ha: diff != 0 Pr(|T| > |t|) = 0.1258
 Ha: diff > 0 Pr(T > t) = 0.0629

. clear all

. * ASIAN FACULTY MEMBERS

. use

C:\Users\TAOVLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\DATA\FINAL\FSS2015-16C

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

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

-> RKST_FULL = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	245	8974.493	161.4319	2526.809	8656.515 9292.471
1	86	8954.063	291.4025	2702.356	8374.677 9533.45
combined	331	8969.185	141.2283	2569.425	8691.364 9247.006
diff		20.42933	322.5329		-614.0575 654.9162

diff = mean(0) - mean(1) t = 0.0633
 Ho: diff = 0 degrees of freedom = 329

Ha: diff < 0 Pr(T < t) = 0.5252
 Ha: diff != 0 Pr(|T| > |t|) = 0.9495
 Ha: diff > 0 Pr(T > t) = 0.4748

-> RKST_FULL = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
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                                RankStart
      0 |      10      11712.81      583.3078      1844.581      10393.28      13032.35
      1 |      1      14269.56      .      .      .      .
-----+-----
combi ned |      11      11945.25      .      .      .      .
-----+-----
      di ff |      -2556.746      .      .      .
-----+-----
      di ff = mean(0) - mean(1)
Ho: di ff = 0
                                t =
                                degrees of freedom =      9

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

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

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-> RKST_ASSOC = 0

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Two-sample t test with equal variances

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-----+-----
      Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
      0 |      223      8775.695      158.1951      2362.357      8463.938      9087.451
      1 |      85      9003.468      300.3063      2768.687      8406.276      9600.661
-----+-----
combi ned |      308      8838.554      141.2308      2478.591      8560.651      9116.457
-----+-----
      di ff |      -227.7739      316.1978      -849.9712      394.4233
-----+-----
      di ff = mean(0) - mean(1)
Ho: di ff = 0
                                t = -0.7204
                                degrees of freedom =      306

      Ha: di ff < 0
Pr(T < t) = 0.2359
      Ha: di ff != 0
Pr(|T| > |t|) = 0.4719
      Ha: di ff > 0
Pr(T > t) = 0.7641

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-----
-> RKST_ASSOC = 1

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```

Two-sample t test with equal variances

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-----+-----
      Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
      0 |      32      11215.59      507.0399      2868.251      10181.48      12249.71
      1 |      2      9512.1      1456.54      2059.859      -8994.995      28019.2
-----+-----
combi ned |      34      11115.39      485.7489      2832.378      10127.12      12103.65
-----+-----
      di ff |      1703.494      2074.7      -2522.533      5929.52
-----+-----
      di ff = mean(0) - mean(1)
Ho: di ff = 0
                                t = 0.8211
                                degrees of freedom =      32

      Ha: di ff < 0
Pr(T < t) = 0.7912
      Ha: di ff != 0
Pr(|T| > |t|) = 0.4177
      Ha: di ff > 0
Pr(T > t) = 0.2088

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

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-> RKST_ASSIST = 0

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-----+-----
di ff |          988.278    531.5357          -58.27438    2034.83
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom =          266
t =          1.8593

Ha: di ff < 0
Pr(T < t) = 0.9680

Ha: di ff != 0
Pr(|T| > |t|) = 0.0641

Ha: di ff > 0
Pr(T > t) = 0.0320
-----+-----
```

-> RKST_FULL = 1

Two-sample t test with equal variances

```
-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |         10   11712.81   583.3078   1844.581   10393.28   13032.35
1 |          1    11000
-----+-----
combi ned |         11   11648.01
-----+-----
di ff |          712.814
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom =          9
t =

Ha: di ff < 0
Pr(T < t) =

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

Ha: di ff > 0
Pr(T > t) =
-----+-----
```

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

-> RKST_ASSOC = 0

Two-sample t test with equal variances

```
-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |        223   8775.695   158.1951   2362.357   8463.938   9087.451
1 |         21   8023.672   262.6004   1203.386   7475.898   8571.447
-----+-----
combi ned |        244   8710.971   146.8564   2293.971   8421.697   9000.245
-----+-----
di ff |          752.0221   522.4745          -277.156    1781.2
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom =          242
t =          1.4393

Ha: di ff < 0
Pr(T < t) = 0.9243

Ha: di ff != 0
Pr(|T| > |t|) = 0.1513

Ha: di ff > 0
Pr(T > t) = 0.0757
-----+-----
```

-> RKST_ASSOC = 1

Two-sample t test with equal variances

```
-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |         32   11215.59   507.0399   2868.251   10181.48   12249.71
1 |          3   8728.607   349.0043   604.4932   7226.962   10230.25
-----+-----
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RankStart
-----+-----
combi ned |      35      11002.42      478.7312      2832.212      10029.52      11975.32
-----+-----
di ff |      2486.987      1680.973
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom = 33
t = 1.4795
Ha: di ff < 0
Pr(T < t) = 0.9258
Ha: di ff != 0
Pr(|T| > |t|) = 0.1485
Ha: di ff > 0
Pr(T > t) = 0.0742
. by RKST_ASSI ST, sort: ttest morate, by(black)

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-----
-> RKST_ASSI ST = 0

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Two-sample t test with equal variances

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-----+-----
Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
0 |      42      11333.98      408.6312      2648.233      10508.73      12159.23
1 |      4      9296.455      619.1557      1238.311      7326.025      11266.88
-----+-----
combi ned |      46      11156.8      385.298      2613.218      10380.77      11932.83
-----+-----
di ff |      2037.525      1348.319
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom = 44
t = 1.5112
Ha: di ff < 0
Pr(T < t) = 0.9311
Ha: di ff != 0
Pr(|T| > |t|) = 0.1379
Ha: di ff > 0
Pr(T > t) = 0.0689

```

```

-----
-> RKST_ASSI ST = 1

```

```

Two-sample t test with equal variances

```

```

-----+-----
Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
0 |      213      8637.802      157.3475      2296.411      8327.635      8947.968
1 |      20      7874.856      227.4649      1017.254      7398.766      8350.946
-----+-----
combi ned |      233      8572.313      145.7482      2224.75      8285.153      8859.472
-----+-----
di ff |      762.9456      519.0037
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom = 231
t = 1.4700
Ha: di ff < 0
Pr(T < t) = 0.9285
Ha: di ff != 0
Pr(|T| > |t|) = 0.1429
Ha: di ff > 0
Pr(T > t) = 0.0715

```

```

. clear all

```

```

. * HI SPANIC FACULTY MEMBERS (ONLY RKST_ASSI ST VALUES)

```

```

. use

```

```

C:\Users\TAOVLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\DATA\FINAL\FSS2015-16C

```



```

RankStart
di ff = mean(0) - mean(1)
Ho: di ff = 0
t = 1.4795
degrees of freedom = 33

```

```

Ha: di ff < 0
Pr(T < t) = 0.9258
Ha: di ff != 0
Pr(|T| > |t|) = 0.1485
Ha: di ff > 0
Pr(T > t) = 0.0742

```

```

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

```

```

-----
-> RKST_ASSIST = 0

```

```

Two-sample t test with equal variances

```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	42	11333.98	408.6312	2648.233	10508.73	12159.23
1	4	9296.455	619.1557	1238.311	7326.025	11266.88
combined	46	11156.8	385.298	2613.218	10380.77	11932.83
di ff		2037.525	1348.319		-679.8338	4754.883

```

di ff = mean(0) - mean(1)
Ho: di ff = 0
t = 1.5112
degrees of freedom = 44

```

```

Ha: di ff < 0
Pr(T < t) = 0.9311
Ha: di ff != 0
Pr(|T| > |t|) = 0.1379
Ha: di ff > 0
Pr(T > t) = 0.0689

```

```

-----
-> RKST_ASSIST = 1

```

```

Two-sample t test with equal variances

```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	213	8637.802	157.3475	2296.411	8327.635	8947.968
1	39	8136.586	239.6666	1496.717	7651.407	8621.766
combined	252	8560.233	138.3901	2196.874	8287.679	8832.786
di ff		501.2154	382.0856		-251.3016	1253.732

```

di ff = mean(0) - mean(1)
Ho: di ff = 0
t = 1.3118
degrees of freedom = 250

```

```

Ha: di ff < 0
Pr(T < t) = 0.9046
Ha: di ff != 0
Pr(|T| > |t|) = 0.1908
Ha: di ff > 0
Pr(T > t) = 0.0954

```

```

. clear all

```

```

. * T-TESTS FOR STARTING SALARY
. * FEMALE FACULTY MEMBERS
. use

```

```

C:\Users\TA0VLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\DATA\FINAL\FSS2015-16C

```

```

. keep if female==1 | whmale==1
(72 observations deleted)

```



```

RankStart
di ff = mean(0) - mean(1)
Ho: di ff = 0
Ha: di ff < 0
Pr(T < t) = 1.0000
Ha: di ff != 0
Pr(|T| > |t|) = 0.0000
Ha: di ff > 0
Pr(T > t) = 0.0000
t = 4.3728
degrees of freedom = 443

```

```
. clear all
```

```
. * ASIAN FACULTY MEMBERS
```

```
. use
```

```
C:\Users\TAOVLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\DATA\FINAL\FSS2015-16C
```

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

```
. by RKST_FULL, sort: ttest salstart, by(asian)
```

```
-----
-> RKST_FULL = 0
```

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

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	242	8834.343	291.7857	4539.12	8259.567 9409.118
1	86	7649.884	396.7412	3679.226	6861.056 8438.711
combined	328	8523.783	240.527	4356.13	8050.608 8996.959
di ff		1184.459	543.7611		114.7353 2254.182

```
di ff = mean(0) - mean(1)
Ho: di ff = 0
Ha: di ff < 0
Pr(T < t) = 0.9849
Ha: di ff != 0
Pr(|T| > |t|) = 0.0301
Ha: di ff > 0
Pr(T > t) = 0.0151
t = 2.1783
degrees of freedom = 326
```

```
-----
-> RKST_FULL = 1
```

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

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	10	8444.529	781.7551	2472.127	6676.076 10212.98
1	1	9084.791	.	.	.
combined	11	8502.735	.	.	.
di ff		-640.262	.	.	.

```
di ff = mean(0) - mean(1)
Ho: di ff = 0
Ha: di ff < 0
Pr(T < t) = .
Ha: di ff != 0
Pr(|T| > |t|) = .
Ha: di ff > 0
Pr(T > t) = .
t = .
degrees of freedom = 9
```

```
. by RKST_ASSOC, sort: ttest salstart, by(asian)
```


Pr(T < t) = 0.6030 RankStart
 Pr(|T| > |t|) = 0.7940 Pr(T > t) = 0.3970

-> RKST_ASSIST = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	210	8854.996	316.8241	4591.217	8230.416	9479.576
1	84	7652.964	405.5306	3716.749	6846.38	8459.548
combined	294	8511.558	255.8512	4386.934	8008.019	9015.097
diff		1202.032	562.9418		94.09389	2309.969

diff = mean(0) - mean(1) t = 2.1353
 Ho: diff = 0 degrees of freedom = 292

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9832 Pr(|T| > |t|) = 0.0336 Pr(T > t) = 0.0168

. clear all

. * BLACK FACULTY MEMBERS

. use

C:\Users\TAOVLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\DATA\FINAL\FSS2015-16C

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

. by RKST_FULL, sort: ttest salstart, by(black)

-> RKST_FULL = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	242	8834.343	291.7857	4539.12	8259.567	9409.118
1	23	8972.999	656.0111	3146.119	7612.515	10333.48
combined	265	8846.377	272.2025	4431.136	8310.413	9382.341
diff		-138.6564	968.665		-2045.982	1768.669

diff = mean(0) - mean(1) t = -0.1431
 Ho: diff = 0 degrees of freedom = 263

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.4431 Pr(|T| > |t|) = 0.8863 Pr(T > t) = 0.5569

-> RKST_FULL = 1

Two-sample t test with equal variances

RankStart

-> RKST_ASSIST = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	42	8638.263	597.4783	3872.102	7431.631 9844.894
1	4	8931.883	1762.293	3524.586	3323.48 14540.29
combined	46	8663.795	561.3575	3807.312	7533.163 9794.427
diff		-293.6203	2014.271		-4353.116 3765.875

diff = mean(0) - mean(1) t = -0.1458
 Ho: diff = 0 degrees of freedom = 44

Ha: diff < 0 Pr(T < t) = 0.4424
 Ha: diff != 0 Pr(|T| > |t|) = 0.8848
 Ha: diff > 0 Pr(T > t) = 0.5576

-> RKST_ASSIST = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	210	8854.996	316.8241	4591.217	8230.416 9479.576
1	20	8726.573	734.8587	3286.388	7188.496 10264.65
combined	230	8843.829	295.8826	4487.282	8260.828 9426.829
diff		128.4234	1052.347		-1945.145 2201.992

diff = mean(0) - mean(1) t = 0.1220
 Ho: diff = 0 degrees of freedom = 228

Ha: diff < 0 Pr(T < t) = 0.5485
 Ha: diff != 0 Pr(|T| > |t|) = 0.9030
 Ha: diff > 0 Pr(T > t) = 0.4515

. clear all

. * HISPANIC FACULTY MEMBERS (ONLY RKST_ASSIST VALUES)

. use

C:\Users\TAOVLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\DATA\FINAL\FSS2015-16C

. keep if hisp==1 | whmale==1
 (301 observations deleted)

. *drop RKST_FULL and RKST_ASSOC obs for whmale (none for hisp)

. *this leaves only RKST_ASSIST obs for both groups

. drop if RKST_FULL==1 | RKST_ASSOC==1
 (42 observations deleted)

. ttest salstart, by(hisp)

Two-sample t test with equal variances

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

			RankStart			
0	210	8854.996	316.8241	4591.217	8230.416	9479.576
1	19	8715.944	1234.889	5382.755	6121.539	11310.35

combined	229	8843.459	307.203	4648.824	8238.139	9448.779

diff		139.0522	1116.128		-2060.244	2338.349

	diff = mean(0) - mean(1)				t =	0.1246
Ho: diff = 0					degrees of freedom =	227
	Ha: diff < 0		Ha: diff != 0		Ha: diff > 0	
	Pr(T < t) = 0.5495		Pr(T > t) = 0.9010		Pr(T > t) = 0.4505	

. clear all

. * BLACK & HISP FACULTY MEMBERS

. use

C:\Users\TAOVLW1\Desktop\Documents\FACULTY_SALARY_STUDY\WORKING\DATA\FINAL\FSS2015-16C

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

. gen blackhisp=0

. replace blackhisp=1 if black==1 | hisp==1
(43 real changes made)

. by RKST_FULL, sort: ttest salstart, by(blackhisp)

-> RKST_FULL = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	242	8834.343	291.7857	4539.12	8259.567	9409.118
1	42	8856.712	655.5303	4248.322	7532.842	10180.58

combined	284	8837.651	266.4362	4490.062	8313.203	9362.099

diff		-22.36958	751.8776		-1502.374	1457.635

	diff = mean(0) - mean(1)				t =	-0.0298
Ho: diff = 0					degrees of freedom =	282
	Ha: diff < 0		Ha: diff != 0		Ha: diff > 0	
	Pr(T < t) = 0.4881		Pr(T > t) = 0.9763		Pr(T > t) = 0.5119	

-> RKST_FULL = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	10	8444.529	781.7551	2472.127	6676.076	10212.98
1	1	3880.006

```

RankStart
combi ned |      11    8029.572
-----+-----
di ff |      4564.523
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom = 9
t =
Ha: di ff < 0
Pr(T < t) =
Ha: di ff != 0
Pr(|T| > |t|) =
Ha: di ff > 0
Pr(T > t) =
. by RKST_ASSOC, sort: ttest sal start, by(blckhi sp)

```

-> RKST_ASSOC = 0

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      220   8836.338   304.3267   4513.895   8236.554   9436.122
1 |      40    8600.36    693.1874   4384.102   7198.256   10002.46
-----+-----
combi ned |      260   8800.034   278.2497   4486.641   8252.114   9347.954
di ff |      235.9787   772.5529
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom = 258
t = 0.3055
Ha: di ff < 0
Pr(T < t) = 0.6199
Ha: di ff != 0
Pr(|T| > |t|) = 0.7603
Ha: di ff > 0
Pr(T > t) = 0.3801

```

-> RKST_ASSOC = 1

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      32   8698.804   750.8227   4247.294   7167.491   10230.12
1 |      3   10615.84   734.7907   1272.695   7454.292   13777.39
-----+-----
combi ned |      35   8863.122   693.6352   4103.601   7453.485   10272.76
di ff |      -1917.038   2492.809
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
degrees of freedom = 33
t = -0.7690
Ha: di ff < 0
Pr(T < t) = 0.2237
Ha: di ff != 0
Pr(|T| > |t|) = 0.4473
Ha: di ff > 0
Pr(T > t) = 0.7763

```

. by RKST_ASSIST, sort: ttest sal start, by(blckhi sp)

-> RKST_ASSIST = 0

Two-sample t test with equal variances

```

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

```


