

```
name: <unnamed>
log: E:\Uygulama1\Ekonometri I\2019-20 GÜZ UYG. EKO I\1-3 Ekim 2019.smc1
log type: smc1
opened on: 4 Oct 2019, 13:34:49
```

```
. *(9 variables, 20 observations pasted into data editor)
```

```
. list
```

	yas	cinsiyet	okul	gelir	kardes	is_tec-e	bolge	bolum	sigara
1.	32	1	12	4000	2	10	1	1	1
2.	30	1	16	6000	1	8	1	2	1
3.	35	2	15	5500	3	9	2	3	2
4.	41	1	12	4500	2	10	3	3	2
5.	40	2	20	7000	5	12	2	2	1
6.	28	1	18	6500	4	5	6	1	2
7.	36	1	23	10000	2	8	5	2	1
8.	29	2	15	4500	3	6	6	2	1
9.	29	1	16	5250	1	4	7	3	2
10.	31	1	18	6250	2	8	4	1	1
11.	35	2	23	9250	3	7	5	1	2
12.	40	1	22	9000	1	12	7	1	1
13.	44	2	21	8500	2	16	3	2	2
14.	54	2	19	7500	2	20	5	3	1
15.	51	1	17	6500	1	16	6	2	1
16.	50	2	16	6500	5	20	5	3	1
17.	45	2	12	4500	3	20	4	2	1
18.	32	1	10	3500	2	5	7	1	2
19.	52	1	16	9750	4	16	6	2	1
20.	29	2	10	2750	2	6	2	3	1

```
. drop in 6
(1 observation deleted)
```

```
. list
```

	yas	cinsiyet	okul	gelir	kardes	is_tec-e	bolge	bolum	sigara
1.	32	1	12	4000	2	10	1	1	1
2.	30	1	16	6000	1	8	1	2	1
3.	35	2	15	5500	3	9	2	3	2
4.	41	1	12	4500	2	10	3	3	2
5.	40	2	20	7000	5	12	2	2	1
6.	36	1	23	10000	2	8	5	2	1
7.	29	2	15	4500	3	6	6	2	1
8.	29	1	16	5250	1	4	7	3	2
9.	31	1	18	6250	2	8	4	1	1
10.	35	2	23	9250	3	7	5	1	2
11.	40	1	22	9000	1	12	7	1	1
12.	44	2	21	8500	2	16	3	2	2
13.	54	2	19	7500	2	20	5	3	1
14.	51	1	17	6500	1	16	6	2	1
15.	50	2	16	6500	5	20	5	3	1
16.	45	2	12	4500	3	20	4	2	1
17.	32	1	10	3500	2	5	7	1	2
18.	52	1	16	9750	4	16	6	2	1
19.	29	2	10	2750	2	6	2	3	1

```
. label define cinsiyet 1 "Kadin" 2 "Erkek"
```

```
. label define bolge 1 "Ege" 2 "Marmara" 3 "Karadeniz" 4 "Dogu_Anadolu" 5 "Guneydogu_An" 6 "Ic_Anadolu" 7 "Akdeniz"
```

```
. label define bolum 1 "Ekonometri" 2 "Isletme" 3 "Maliye"
```

```
. label define EH 1 "Hayir" 2 "Evet"
```

```
. label values cinsiyet Cinsiyet
```

```
. label values bolge Bolge
```

```
. label values bolum Bolum
```

```
. label values sigara EH
```

. tab cinsiyet

cinsiyet	Freq.	Percent	Cum.
Kadin	10	52.63	52.63
Erkek	9	47.37	100.00
Total	19	100.00	

. tab bolge

bolge	Freq.	Percent	Cum.
Ege	2	10.53	10.53
Marmara	3	15.79	26.32
Karadeniz	2	10.53	36.84
Dogu_Anadolu	2	10.53	47.37
Guneydogu_An	4	21.05	68.42
Ic_Anadolu	3	15.79	84.21
Akdeniz	3	15.79	100.00
Total	19	100.00	

. tab sigara

sigara	Freq.	Percent	Cum.
Hayir	13	68.42	68.42
Evet	6	31.58	100.00
Total	19	100.00	

. tab cinsiyet sigara

cinsiyet	sigara		Total
	Hayir	Evet	
Kadin	7	3	10
Erkek	6	3	9
Total	13	6	19

. tab bolum sigara

bolum	sigara		Total
	Hayir	Evet	
Ekonometri	8	2	10
Isletme	7	1	8
Maliye	3	3	6
Total	13	6	19

. tab bolge sigara

bolge	sigara		Total
	Hayir	Evet	
Ege	2	0	2
Marmara	2	1	3
Karadeniz	0	2	2
Dogu_Anadolu	2	0	2
Guneydogu_An	3	1	4
Ic_Anadolu	3	0	3
Akdeniz	1	2	3
Total	13	6	19

. sum

Variable	Obs	Mean	Std. Dev.	Min	Max
yas	19	38.68421	8.524818	29	54
cinsiyet	19	1.473684	.5129892	1	2
okul	19	16.47368	4.128067	10	23
gelir	19	6355.263	2181.545	2750	10000
kardes	19	2.421053	1.21636	1	5
is_tecrube	19	11.21053	5.28708	4	20
bolge	19	4.263158	2.023257	1	7
bolum	19	2.052632	.7798635	1	3
sigara	19	1.315789	.4775669	1	2

```

. cou if kardes<4
16

. cou if bolum==2
8

. cou if gelir>5000
13

. cou if gelir>5000 & kardes>3
3

. list if gelir>5000 & kardes>3

```

	yas	cinsiyet	okul	gelir	kardes	is_tec~e	bolge	bolum	sigara
5.	40	Erkek	20	7000	5	12	Marmara	Isletme	Hayir
15.	50	Erkek	16	6500	5	20	Guneydogu_An	Maliye	Hayir
18.	52	Kadin	16	9750	4	16	Ic_Anadolu	Isletme	Hayir

```

. list if gelir>5000 | kardes>3

```

	yas	cinsiyet	okul	gelir	kardes	is_tec~e	bolge	bolum	sigara
2.	30	Kadin	16	6000	1	8	Ege	Isletme	Hayir
3.	35	Erkek	15	5500	3	9	Marmara	Maliye	Evet
5.	40	Erkek	20	7000	5	12	Marmara	Isletme	Hayir
6.	36	Kadin	23	10000	2	8	Guneydogu_An	Isletme	Hayir
8.	29	Kadin	16	5250	1	4	Akdeniz	Maliye	Evet
9.	31	Kadin	18	6250	2	8	Dogu_Anadolu	Ekonometri	Hayir
10.	35	Erkek	23	9250	3	7	Guneydogu_An	Ekonometri	Evet
11.	40	Kadin	22	9000	1	12	Akdeniz	Ekonometri	Hayir
12.	44	Erkek	21	8500	2	16	Karadeniz	Isletme	Evet
13.	54	Erkek	19	7500	2	20	Guneydogu_An	Maliye	Hayir
14.	51	Kadin	17	6500	1	16	Ic_Anadolu	Isletme	Hayir
15.	50	Erkek	16	6500	5	20	Guneydogu_An	Maliye	Hayir
18.	52	Kadin	16	9750	4	16	Ic_Anadolu	Isletme	Hayir

```

. list if gelir>5000 | kardes>3 & cinsiyet==1

```

	yas	cinsiyet	okul	gelir	kardes	is_tec~e	bolge	bolum	sigara
2.	30	Kadin	16	6000	1	8	Ege	Isletme	Hayir
3.	35	Erkek	15	5500	3	9	Marmara	Maliye	Evet
5.	40	Erkek	20	7000	5	12	Marmara	Isletme	Hayir
6.	36	Kadin	23	10000	2	8	Guneydogu_An	Isletme	Hayir
8.	29	Kadin	16	5250	1	4	Akdeniz	Maliye	Evet
9.	31	Kadin	18	6250	2	8	Dogu_Anadolu	Ekonometri	Hayir
10.	35	Erkek	23	9250	3	7	Guneydogu_An	Ekonometri	Evet
11.	40	Kadin	22	9000	1	12	Akdeniz	Ekonometri	Hayir
12.	44	Erkek	21	8500	2	16	Karadeniz	Isletme	Evet
13.	54	Erkek	19	7500	2	20	Guneydogu_An	Maliye	Hayir
14.	51	Kadin	17	6500	1	16	Ic_Anadolu	Isletme	Hayir
15.	50	Erkek	16	6500	5	20	Guneydogu_An	Maliye	Hayir
18.	52	Kadin	16	9750	4	16	Ic_Anadolu	Isletme	Hayir

```

. list if bolum==3 & cinsiyet==2

```

	yas	cinsiyet	okul	gelir	kardes	is_tec~e	bolge	bolum	sigara
3.	35	Erkek	15	5500	3	9	Marmara	Maliye	Evet
13.	54	Erkek	19	7500	2	20	Guneydogu_An	Maliye	Hayir
15.	50	Erkek	16	6500	5	20	Guneydogu_An	Maliye	Hayir
19.	29	Erkek	10	2750	2	6	Marmara	Maliye	Hayir

```

. list if cinsiyet==1 & bolum==3

```

	yas	cinsiyet	okul	gelir	kardes	is_tec~e	bolge	bolum	sigara
4.	41	Kadin	12	4500	2	10	Karadeniz	Maliye	Evet
8.	29	Kadin	16	5250	1	4	Akdeniz	Maliye	Evet

. list if sigara ==1 & bolun==3

	yas	cinsiyet	okul	gelir	kardes	is_tec~e	bolge	bolun	sigara
13.	54	Erkek	19	7500	2	20	Guneydogu_An	Maliye	Hayir
15.	50	Erkek	16	6500	5	20	Guneydogu_An	Maliye	Hayir
19.	29	Erkek	10	2750	2	6	Marmara	Maliye	Hayir

. list if sigara==1 | bolun==3

	yas	cinsiyet	okul	gelir	kardes	is_tec~e	bolge	bolun	sigara
1.	32	Kadin	12	4000	2	10	Ege	Ekonometri	Hayir
2.	30	Kadin	16	6000	1	8	Ege	Isletme	Hayir
3.	35	Erkek	15	5500	3	9	Marmara	Maliye	Evet
4.	41	Kadin	12	4500	2	10	Karadeniz	Maliye	Evet
5.	40	Erkek	20	7000	5	12	Marmara	Isletme	Hayir
6.	36	Kadin	23	10000	2	8	Guneydogu_An	Isletme	Hayir
7.	29	Erkek	15	4500	3	6	Ic_Anadolu	Isletme	Hayir
8.	29	Kadin	16	5250	1	4	Akdeniz	Maliye	Evet
9.	31	Kadin	18	6250	2	8	Dogu_Anadolu	Ekonometri	Hayir
11.	40	Kadin	22	9000	1	12	Akdeniz	Ekonometri	Hayir
13.	54	Erkek	19	7500	2	20	Guneydogu_An	Maliye	Hayir
14.	51	Kadin	17	6500	1	16	Ic_Anadolu	Isletme	Hayir
15.	50	Erkek	16	6500	5	20	Guneydogu_An	Maliye	Hayir
16.	45	Erkek	12	4500	3	20	Dogu_Anadolu	Isletme	Hayir
18.	52	Kadin	16	9750	4	16	Ic_Anadolu	Isletme	Hayir
19.	29	Erkek	10	2750	2	6	Marmara	Maliye	Hayir

. cor gelir sigara
(obs=19)

	gelir	sigara
gelir	1.0000	
sigara	-0.0870	1.0000

. cor bolun cinsiyet
(obs=19)

	bolun	cinsiyet
bolun	1.0000	
cinsiyet	0.3508	1.0000

. cor gelir is_tecrube
(obs=19)

	gelir	is_tec~e
gelir	1.0000	
is_tecrube	0.3062	1.0000

. cor yas is_tecrube
(obs=19)

	yas	is_tec~e
yas	1.0000	
is_tecrube	0.9149	1.0000

. gen hanegelim= gelir/(kardes+3)

. list gelir kardes hanegelim

	gelir	kardes	hanegem
1.	4000	2	800
2.	6000	1	1500
3.	5500	3	916.6667
4.	4500	2	900
5.	7000	5	875
6.	10000	2	2000
7.	4500	3	750
8.	5250	1	1312.5
9.	6250	2	1250
10.	9250	3	1541.667
11.	9000	1	2250
12.	8500	2	1700
13.	7500	2	1500
14.	6500	1	1625
15.	6500	5	812.5
16.	4500	3	750
17.	3500	2	700
18.	9750	4	1392.857
19.	2750	2	550

. ##### T testi Ho: Gelirin ortalamasi 5000 TL'dir.
Unknown #command

. ttest gelir == 5000

One-sample t test

Variable	obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gelir	19	6355.263	500.4807	2181.545	5303.792	7406.734

mean = mean(gelir) t = 2.7079
Ho: mean = 5000 degrees of freedom = 18

Ha: mean < 5000 Ha: mean != 5000 Ha: mean > 5000
Pr(T < t) = 0.9928 Pr(|T| > |t|) = 0.0144 Pr(T > t) = 0.0072

. ##### 0,014<0,05 Ho RED Gelirin ortalamasi 5000 degildir.
Unknown #command

. ttest gelir == 6300

One-sample t test

Variable	obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gelir	19	6355.263	500.4807	2181.545	5303.792	7406.734

mean = mean(gelir) t = 0.1104
Ho: mean = 6300 degrees of freedom = 18

Ha: mean < 6300 Ha: mean != 6300 Ha: mean > 6300
Pr(T < t) = 0.5434 Pr(|T| > |t|) = 0.9133 Pr(T > t) = 0.4566

. ttest gelir == 6300, level(99)

One-sample t test

Variable	obs	Mean	Std. Err.	Std. Dev.	[99% Conf. Interval]	
gelir	19	6355.263	500.4807	2181.545	4914.659	7795.867

mean = mean(gelir) t = 0.1104
Ho: mean = 6300 degrees of freedom = 18

Ha: mean < 6300 Ha: mean != 6300 Ha: mean > 6300
Pr(T < t) = 0.5434 Pr(|T| > |t|) = 0.9133 Pr(T > t) = 0.4566

. T testi Ho: Erkek ve Kadınların Gelir ortalamasi arasında fark YOKTUR
unrecognized command: T
r(199):

. ttest gelir, by(cinsiyet)

Two-sample t test with equal variances

Group	obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
Kadin	10	6475	746.7057	2361.291	4785.834	8164.166
Erkek	9	6222.222	699.0128	2097.038	4610.296	7834.149
combined	19	6355.263	500.4807	2181.545	5303.792	7406.734
diff		252.7778	1029.587		-1919.46	2425.016

diff = mean(Kadin) - mean(Erkek) t = 0.2455
Ho: diff = 0 degrees of freedom = 17

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.5955 Pr(|T| > |t|) = 0.8090 Pr(T > t) = 0.4045

. ##### T testi Ho: Sigara kullanan ve kullanmayanların Gelir ortalamasi arasında fark YOKTUR
Unknown #command

. ttest gelir, by(sigara)

Two-sample t test with equal variances

Group	obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
Hayir	13	6480.769	614.633	2216.091	5141.599	7819.939
Evet	6	6083.333	932.44	2284.002	3686.42	8480.247
combined	19	6355.263	500.4807	2181.545	5303.792	7406.734
diff		397.4359	1103.711		-1931.191	2726.063

diff = mean(Hayir) - mean(Evet) t = 0.3601
Ho: diff = 0 degrees of freedom = 17

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.6384 Pr(|T| > |t|) = 0.7232 Pr(T > t) = 0.3616

. ttest hanegeligir , by(sigara)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
Hayir	13	1235.027	146.9814	529.9489	914.7826	1555.272
Evet	6	1178.472	162.9815	399.2216	759.5148	1597.43
combined	19	1217.168	110.5564	481.9042	984.8975	1449.438
diff		56.55526	244.3537		-458.9859	572.0964

diff = mean(Hayir) - mean(Evet) t = 0.2314
Ho: diff = 0 degrees of freedom = 17

Ha: diff < 0 Pr(T < t) = 0.5901
Ha: diff != 0 Pr(|T| > |t|) = 0.8197
Ha: diff > 0 Pr(T > t) = 0.4099

. reg gelir yas okul is_tecrube sigara cinsiyet

Source	SS	df	MS	Number of obs =	19
Model	76112545.9	5	15222509.2	F(5, 13) =	20.72
Residual	9551927.81	13	734763.678	Prob > F =	0.0000
Total	85664473.7	18	4759137.43	R-squared =	0.8885
				Adj R-squared =	0.8456
				Root MSE =	857.18

gelir	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
yas	121.3623	69.08063	1.76	0.102	-27.87737	270.6019
okul	433.4725	51.56838	8.41	0.000	322.0658	544.8792
is_tecrube	-84.61021	120.1332	-0.70	0.494	-344.1423	174.9218
sigara	-40.42154	495.4641	-0.08	0.936	-1110.807	1029.964
cinsiyet	-561.0952	458.6404	-1.22	0.243	-1551.927	429.7371
_cons	-3651.841	1711.396	-2.13	0.052	-7349.087	45.40511

. log close
name: <unnamed>
log: E:\Uygulama1\Ekonometri I\2019-20 GÜZ UYG. EKO I\1-3 Ekim 2019.smc1
log type: smcl
closed on: 4 Oct 2019, 13:47:06

