

Laboratuvar 03

BİL 210-Olasılık ve İstatistik

İhtimal Tablosu ve Korelasyon

İhtimal Tablosu (Contingency Table)

- İhtimal tablosu: İki kategorik değişken için kullanılan bir tablodur. Tablonun satırları, bir değişkenin kategorilerini, sütunları diğer değişkenin kategorilerini listeler.
- Tablonun hücreleri, sıklıkları belirtir.
- Gıda Ürünlerinde Zararlı Bitki Zehiri Varlığına İlişkin Tablo

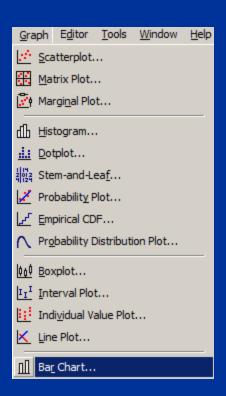
Gıda Çeşidi	Var	Yok	Toplam
Organik	29	98	127
Geleneksel	19,485	7,086	26,571

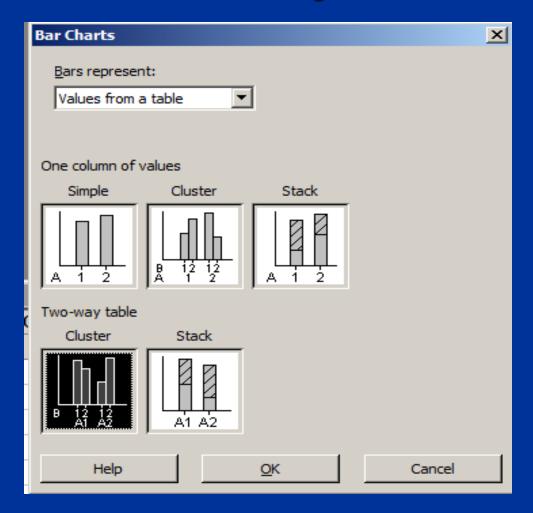
Koşullu Oranlar (Conditional Proportions)

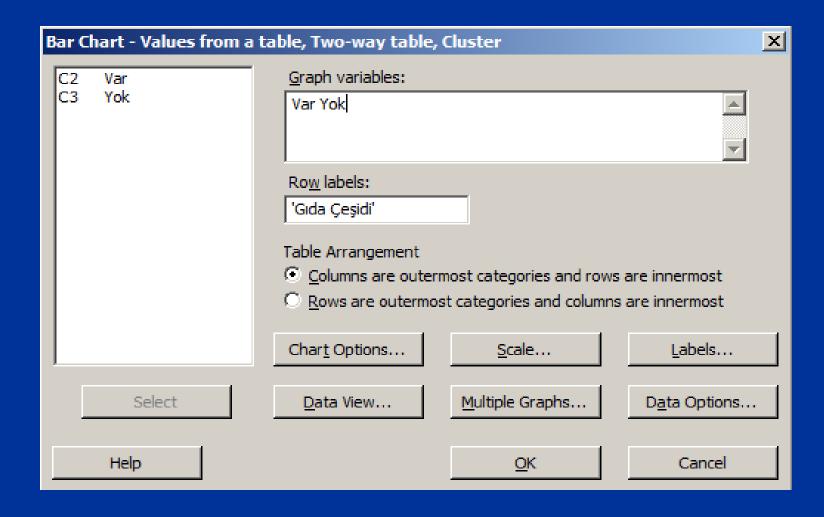
Gıda Çeşidi	Var	Yok	Toplam
		98/127=1-	
Organik	29/127=0.23	0.23 = 0.77	127
	19,485/26,571	7,086/26,571	
Geleneksel	=0.73	=1-0.73=0.27	26,571

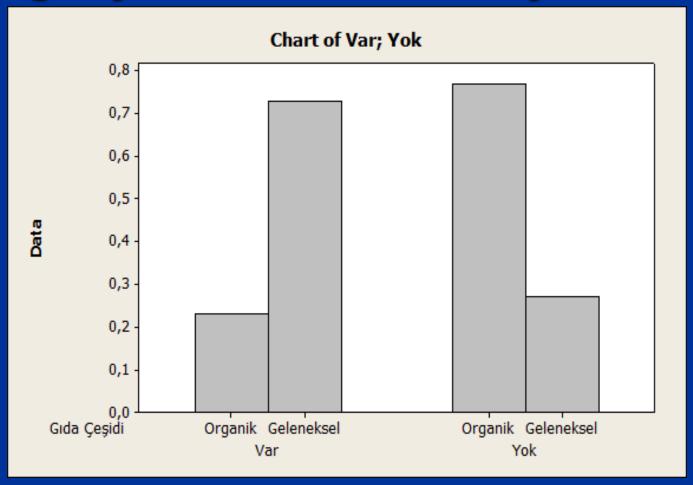
Her bir gıda çeşidi için koşullu oranları, Minitab veri giriş ekranına giriniz.

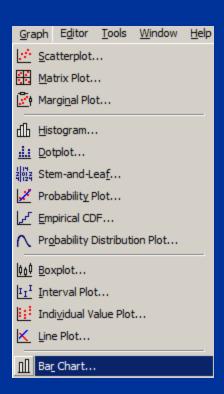
C1-T	C2	C3
Gıda Çeşidi	Var	Yok
Organik	0,23	0,77
Geleneksel	0,73	0,27

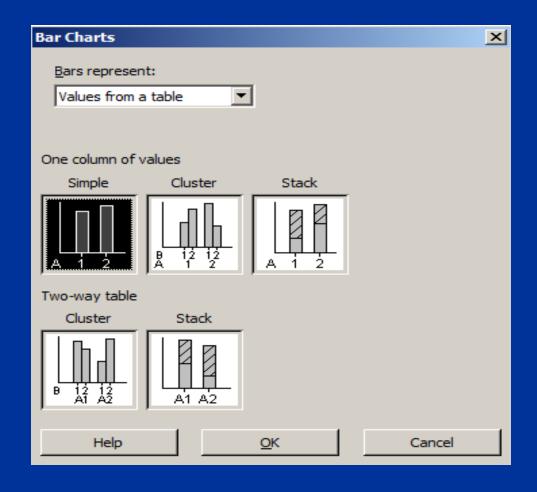


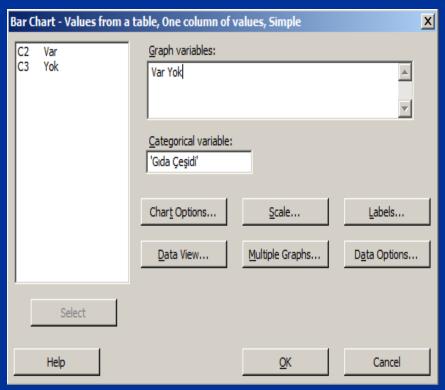


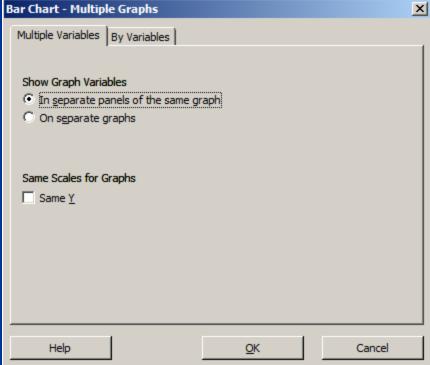


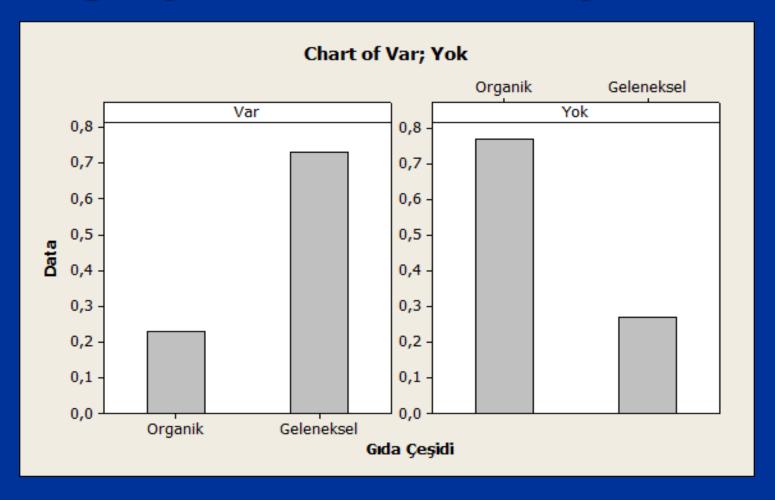








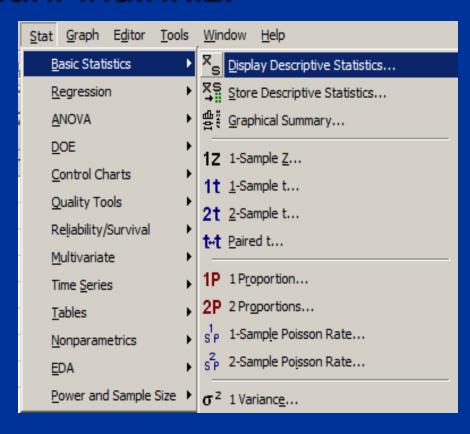




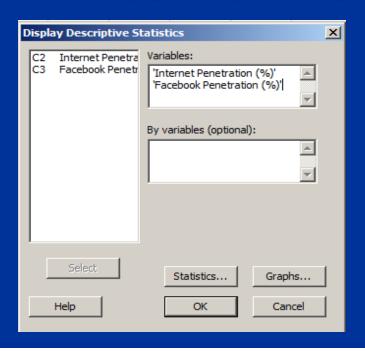
Örnek: Internet Kullanımı

■ Laboratuvar Sayfasından "Internet Kullanımı" veri setini indiriniz.

+	C1-T	C2	C3
	Country	Internet Penetration (%)	Facebook Penetration (%)
1	Argentina	49,40	30,53
2	Australia	80,60	46,01
3	Belgium	67,30	36,98
4	Brazil	37,76	4,39
5	Canada	72,30	52,08
6	Chile	50,90	46,14
7	China	22,40	0,05
8	Colombia	38,80	25,90
9	Egypt	12,90	5,68
10	France	65,70	32,91
11	Germany	67,00	14,07
12	Hong Kong	69,50	52,33
13	India	7,10	1,52
14	Indonesia	10,50	13,49
15	Italy	48,80	30,62
16	Japan	73,80	2,00
17	Malaysia	62,80	37,77
18	Mexico	24,90	16,80
19	Netherlands	82,90	20,54
20	Peru	26,20	13,34
21	Phillippines	21,50	19,68
22	Poland	52,00	11,79
23	Russia	27,00	2,99
24	Saudi Arabia	22,70	11,65
25	South Africa	10,50	7,83
26	Spain	66,80	30,24
27	Sweden	80,70	44,72



Örnek: Internet Kullanımı



Descriptive Statistics: Internet Penetration (%); Facebook Penetration (%)

Facebook Penetration (%) 37,99

Variable			N	N*	Mean	SE Me	an	StDev	Minimum	Q1	Median
Internet	Penetration	(%)	33	0	46,89	4,	26	24,46	7,10	23,80	49,40
Facebook	Penetration	(%)	33	0	24,67	2,	87	16,51	0,05	10,97	25,90
Variable				Q3	Maximum						
Internet	Penetration	(₹)	68,	40	82,90						

52,33

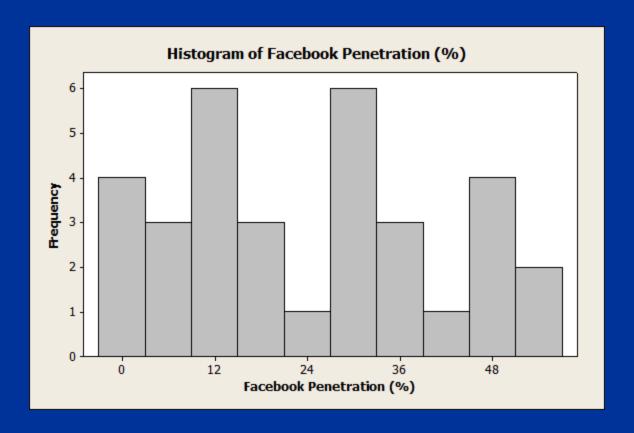
Örnek: Internet Kullanımı İçin Histogram Çizilmesi



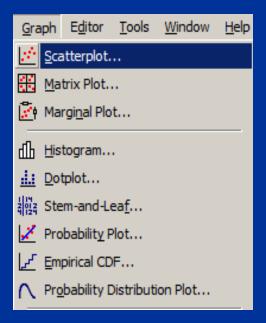
Help

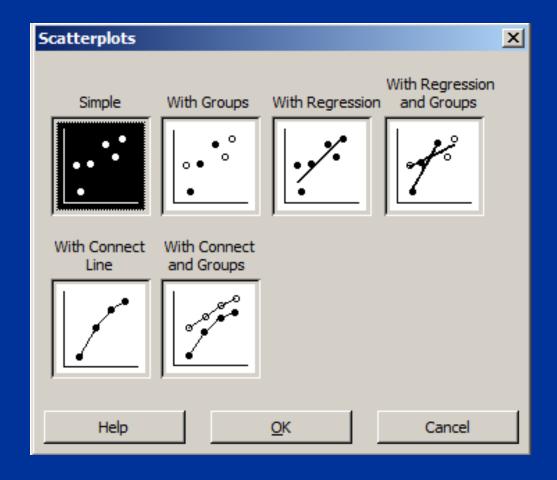
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Örnek: Internet Kullanımı İçin Histogram Çizilmesi

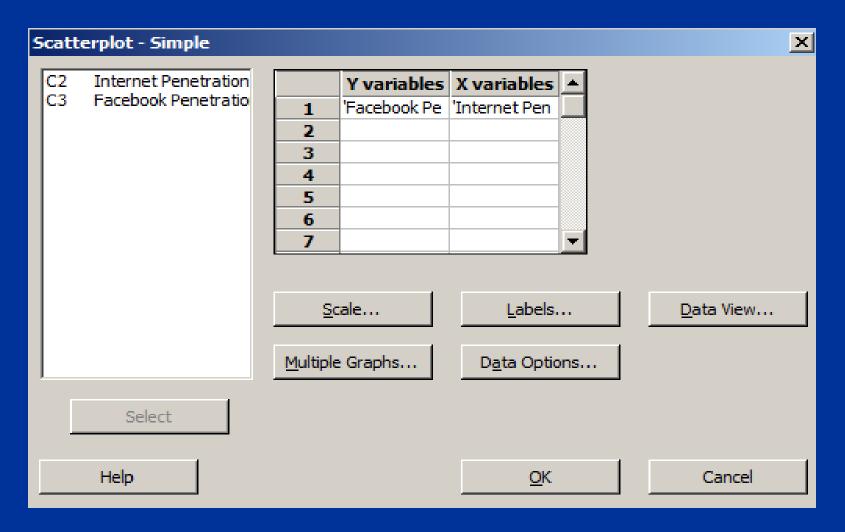


Örnek: Internet Kullanımı İçin Scatterplot Çizilmesi

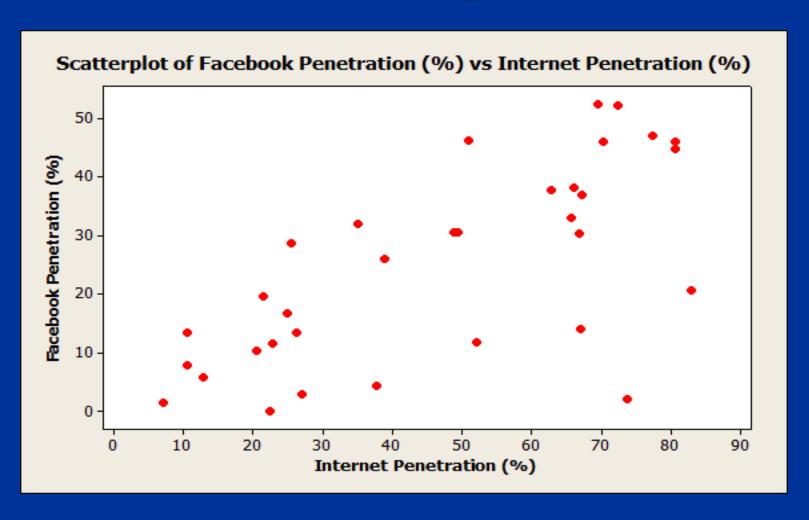




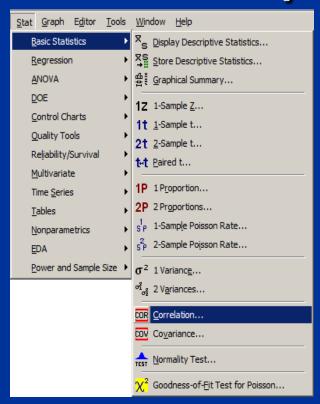
Örnek: Internet Kullanımı İçin Scatterplot Çizilmesi

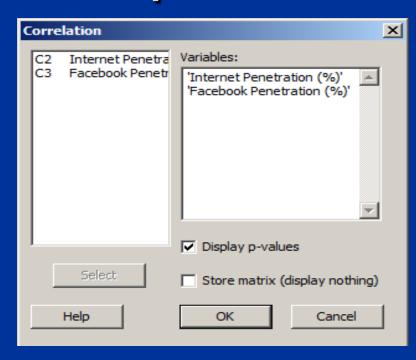


Örnek: Internet Kullanımı İçin Scatterplot Çizilmesi



Örnek: Internet Kullanımı İçin Korelasyonun Hesaplanması

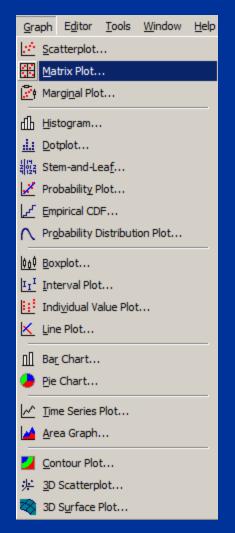


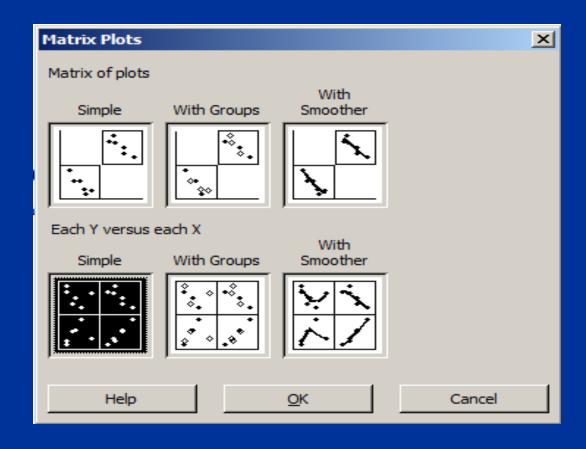


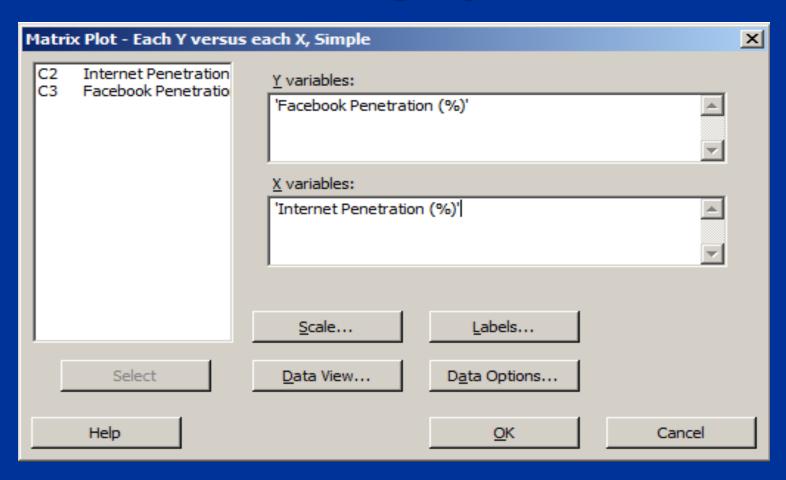
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Correlations: Internet Penetration (%); Facebook Penetration (%)

Pearson correlation of Internet Penetration (%) and Facebook Penetration (%) = 0,682

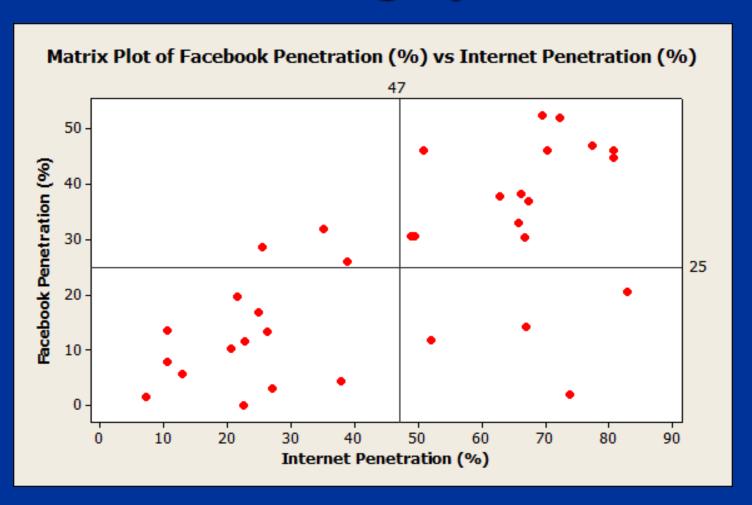
P-Value = 0,000
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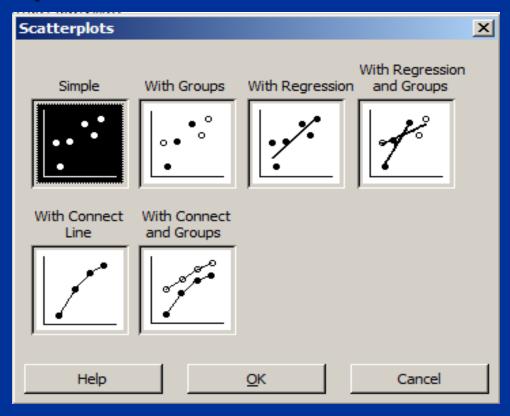


Matrix Plot - Scale	×
Axes and Ticks Gridlines Reference Lines	
Show reference lines at <u>Y</u> values:	
25	
Show reference lines at <u>X</u> values:	
47	
Help <u>O</u> K Cancel	

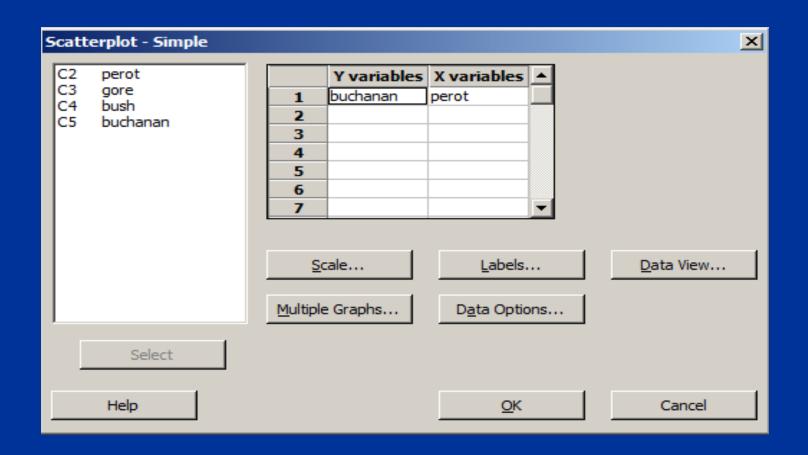


Örnek: ABD 2000 Başkanlık Seçimleri

Laboratuvar Sayfasından "Buchanan and Butterfly" veri setini indiriniz.



Örnek: ABD 2000 Başkanlık Seçimleri



Örnek: ABD 2000 Başkanlık Seçimleri

