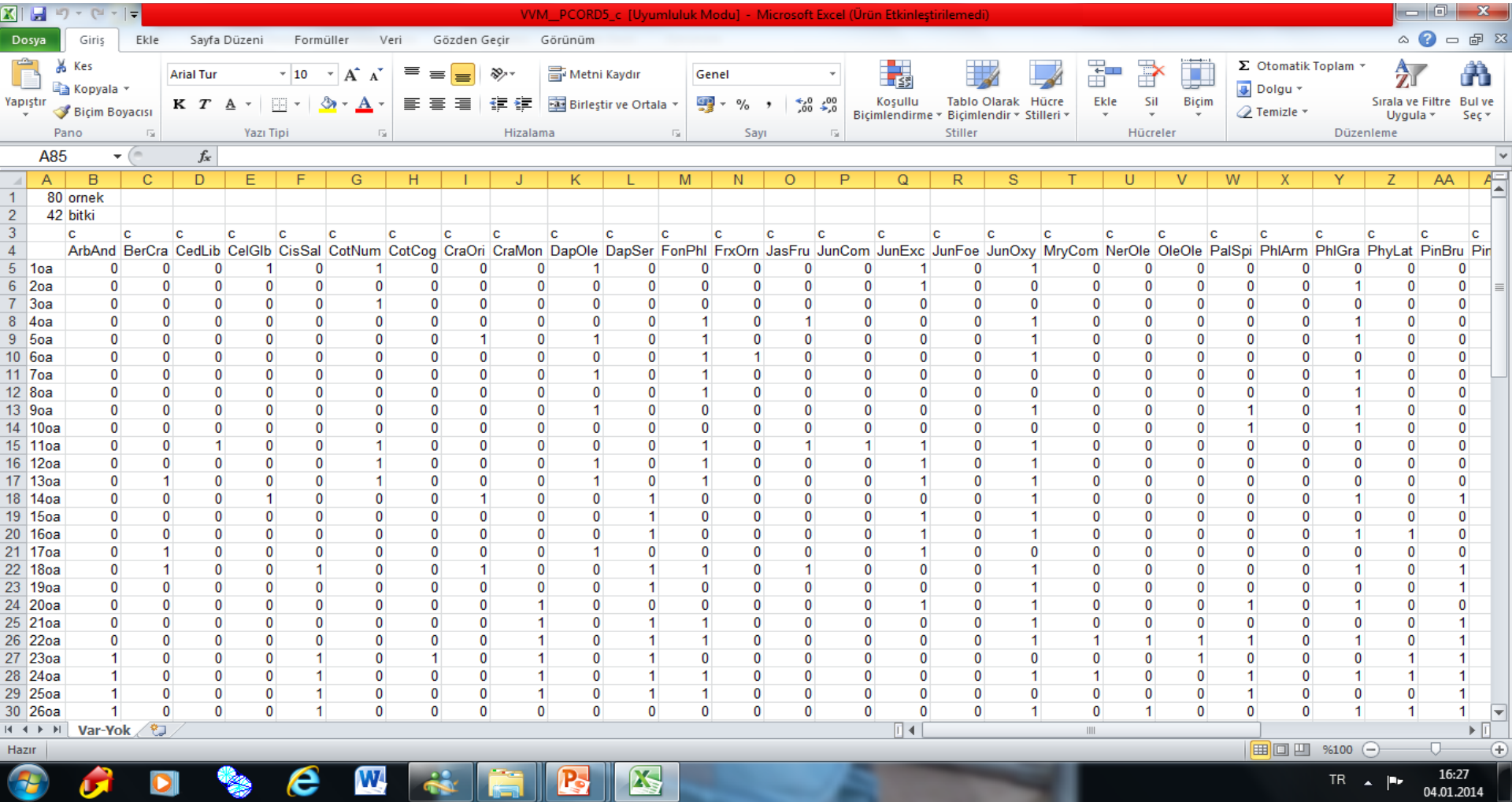
CLUSTER(KÜMELEME) ANALİZİ

Eğitmen
Yrd.Doç.Dr. Mehmet Güvenç NEGİZ

Vejetasyon veri matrisi 0-1 (var-yok) olarak excel dosyasına kaydedilir. Ve aşağıdaki şekilde düzenlenir.



VVM_PCORD5_c [Uyumluluk Modu] - Microsoft Excel (Ürün Etkinleştirilemedi)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	80	ornek																									
2	42	bitki																									
3		c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c
4		ArbAnd	BerCra	CedLib	CelGlb	CisSal	CotNum	CotCog	CraOri	CraMon	DapOle	DapSer	FonPhl	FrxOrn	JasFru	JunCom	JunExc	JunFoe	JunOxy	MryCom	NerOle	OleOle	PalSpi	PhlArm	PhlGra	PhyLat	PinBru
5	1oa	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
6	2oa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
7	3oa	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	4oa	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0
9	5oa	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
10	6oa	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
11	7oa	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
12	8oa	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
13	9oa	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0
14	10oa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
15	11oa	0	0	1	0	0	1	0	0	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0
16	12oa	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
17	13oa	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
18	14oa	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
19	15oa	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
20	16oa	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	1	1	0
21	17oa	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
22	18oa	0	1	0	0	1	0	0	1	0	0	1	1	0	1	0	0	0	1	0	0	0	0	0	1	0	1
23	19oa	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
24	20oa	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0
25	21oa	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1
26	22oa	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	1	1	1	1	0	1	0	1
27	23oa	1	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
28	24oa	1	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	1	1	0	0	1	0	1	1	1
29	25oa	1	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1
30	26oa	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	1

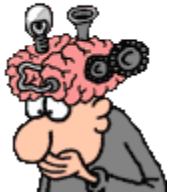
Var-Yok

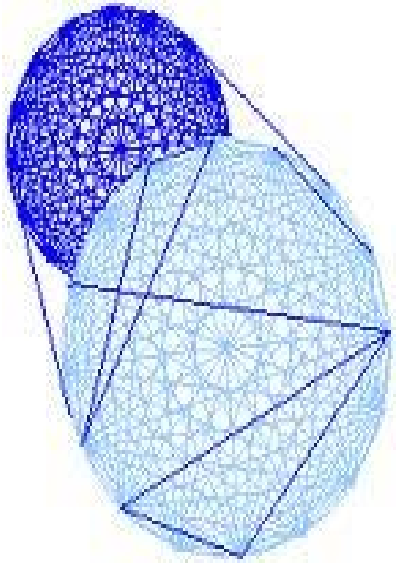
Hazır

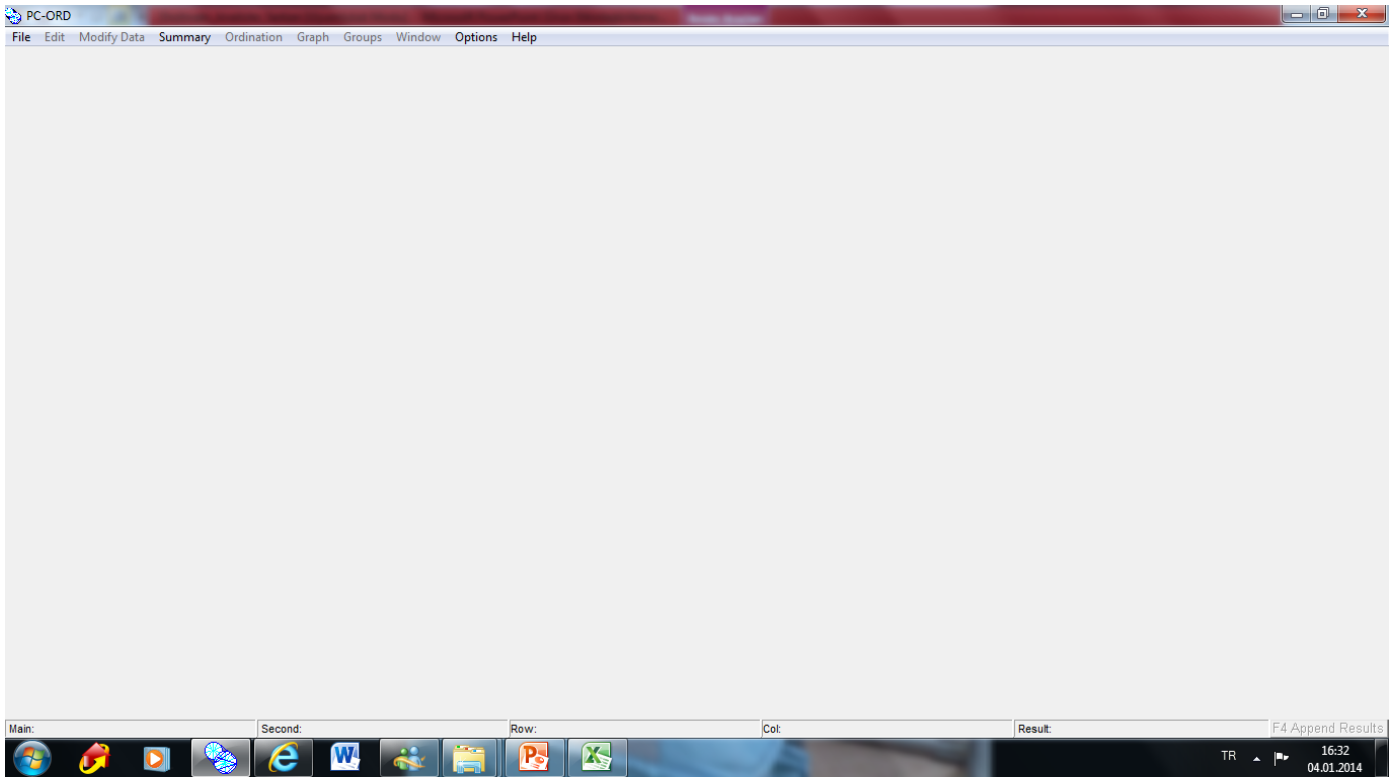
%100

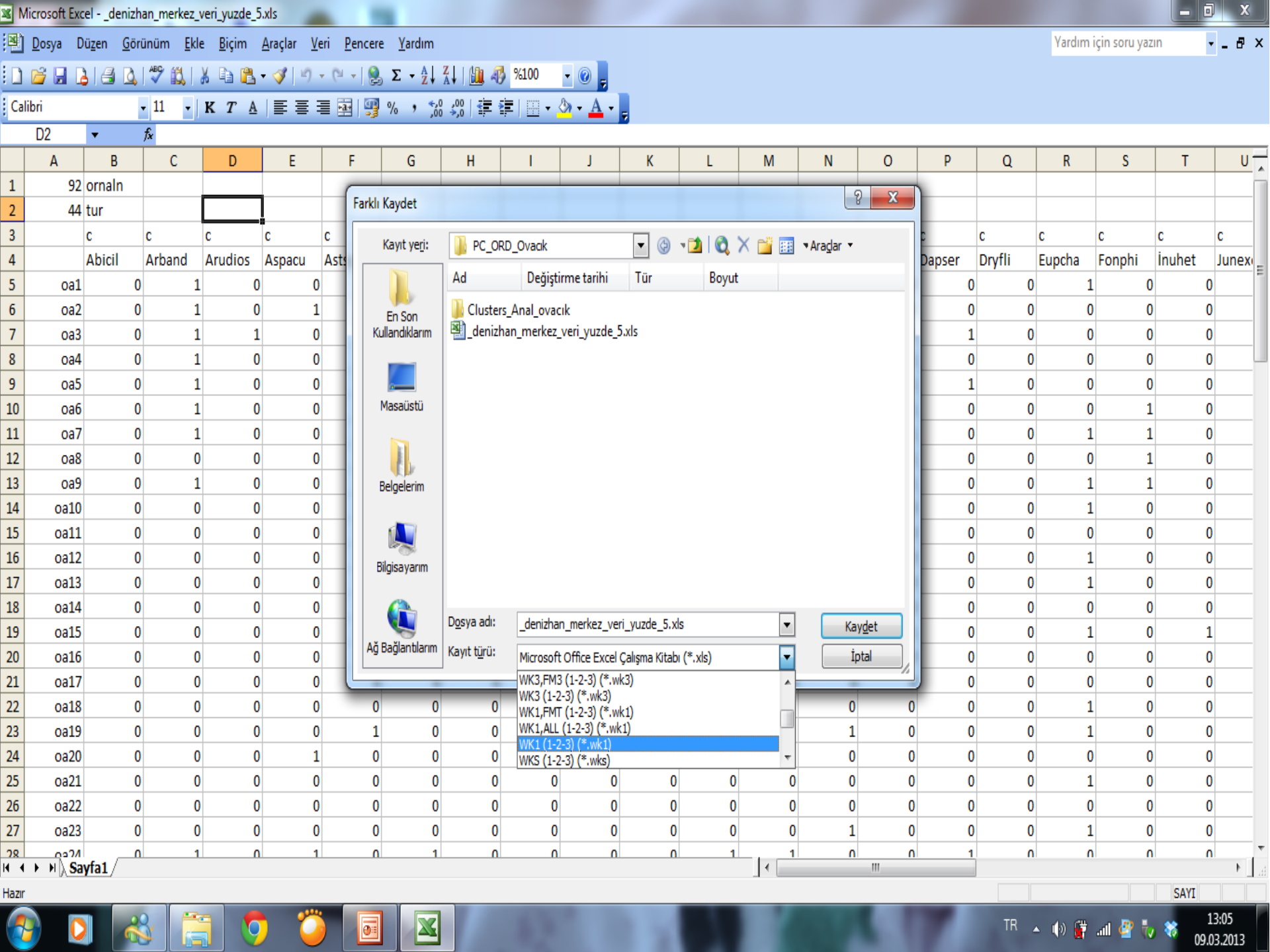
TR 16:27 04.01.2014

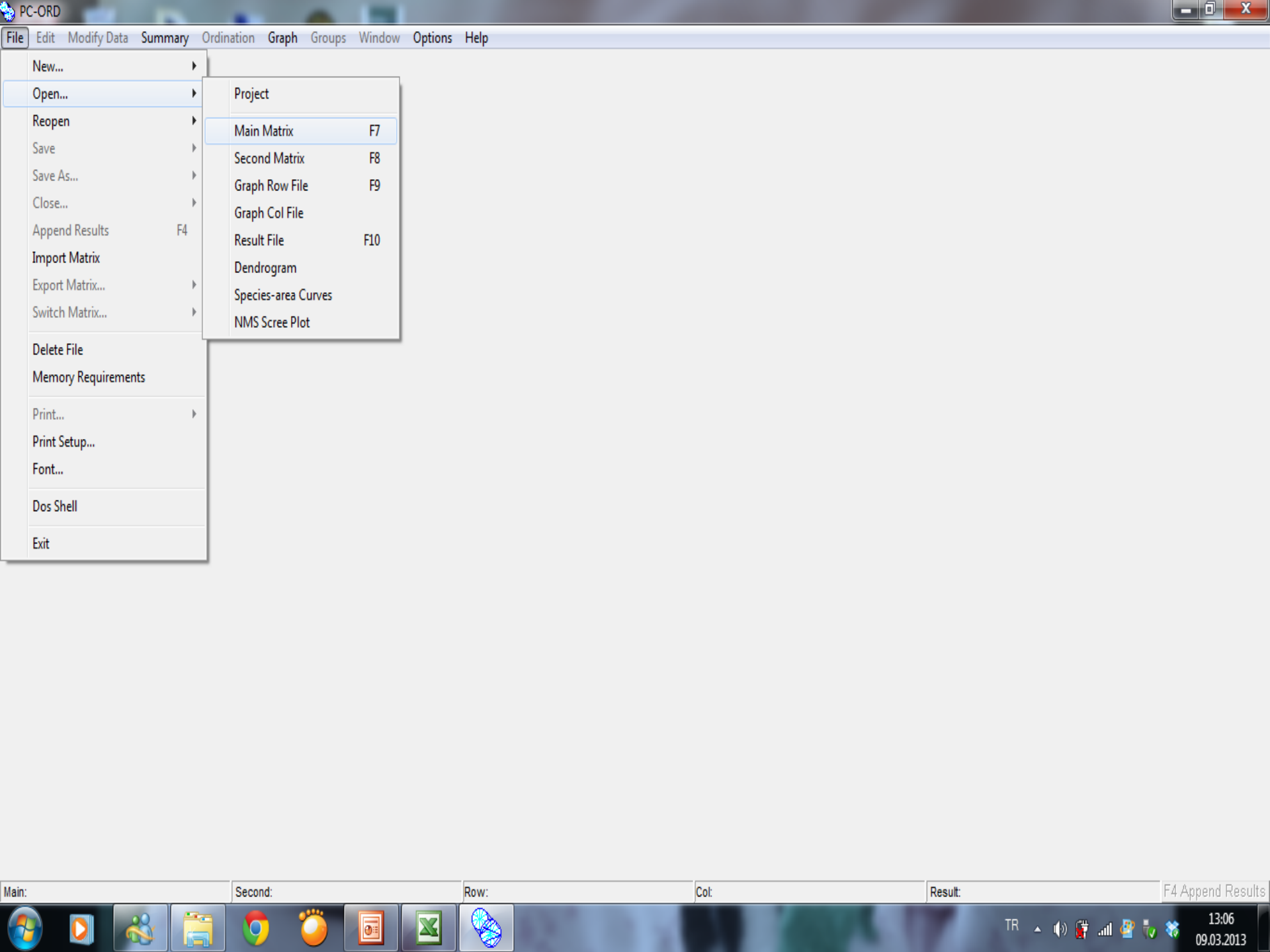
PC-ORD





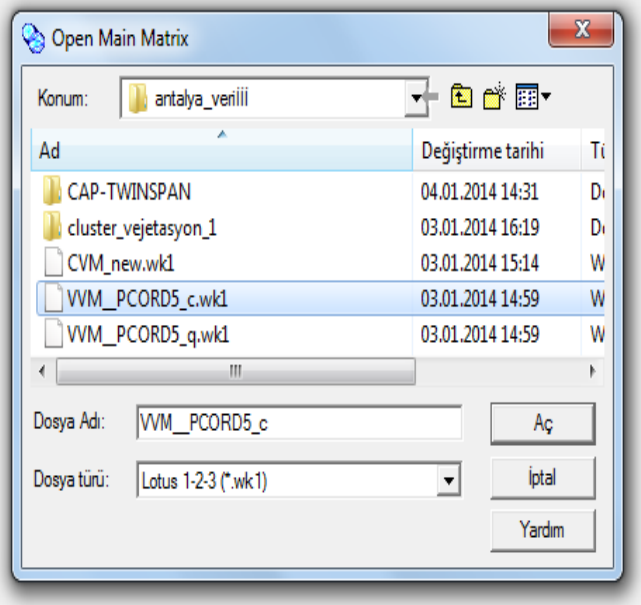

PC-ORD
File Edit Modify Data Summary Ordination Graph Groups Window Options Help
Main:
Second:
Row:
Col:
Result:
F4 Append Results
TR
16:32
04.01.2014


Microsoft Excel - _denizhan_merkez_veri_yuzde_5.xls
Dosya Düzen Görünüm Ekle Biçim Araçlar Veri Pencere Yardım
Yardım için soru yazın
%100
Calibri
11
D2
Farklı Kaydet
Kayıt yeri:
PC_ORD_Ovacık
Araçlar
Ad
Değiştirme tarihi
Tür
Boyut
Clusters_Anal_ovacık
_denizhan_merkez_veri_yuzde_5.xls
En Son Kullandıklarım
Masaüstü
Belgelerim
Bilgisayarım
Ağ Bağlantılarım
Dosya adı:
_denizhan_merkez_veri_yuzde_5.xls
Kayıt türü:
Microsoft Office Excel Çalışma Kitabı (*.xls)
Kaydet
İptal
WK3,FM3 (1-2-3) (*.wk3)
WK3 (1-2-3) (*.wk3)
WK1,FMT (1-2-3) (*.wk1)
WK1,ALL (1-2-3) (*.wk1)
WK1 (1-2-3) (*.wk1)
WKS (1-2-3) (*.wks)
Sayfa1
Hazır
SAYI
TR
13:05
09.03.2013


PC-ORD
File
Edit
Modify Data
Summary
Ordination
Graph
Groups
Window
Options
Help
New...
Open...
Reopen
Save
Save As...
Close...
Append Results F4
Import Matrix
Export Matrix...
Switch Matrix...
Delete File
Memory Requirements
Print...
Print Setup...
Font...
Dos Shell
Exit
Project
Main Matrix F7
Second Matrix F8
Graph Row File F9
Graph Col File
Result File F10
Dendrogram
Species-area Curves
NMS Scree Plot
Main:
Second:
Row:
Col:
Result:
F4 Append Results
TR
13:06
09.03.2013

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help



Main: Second: Row: Col: Result: F4 Append Results

TR 16:39 04.01.2014

PC-ORD

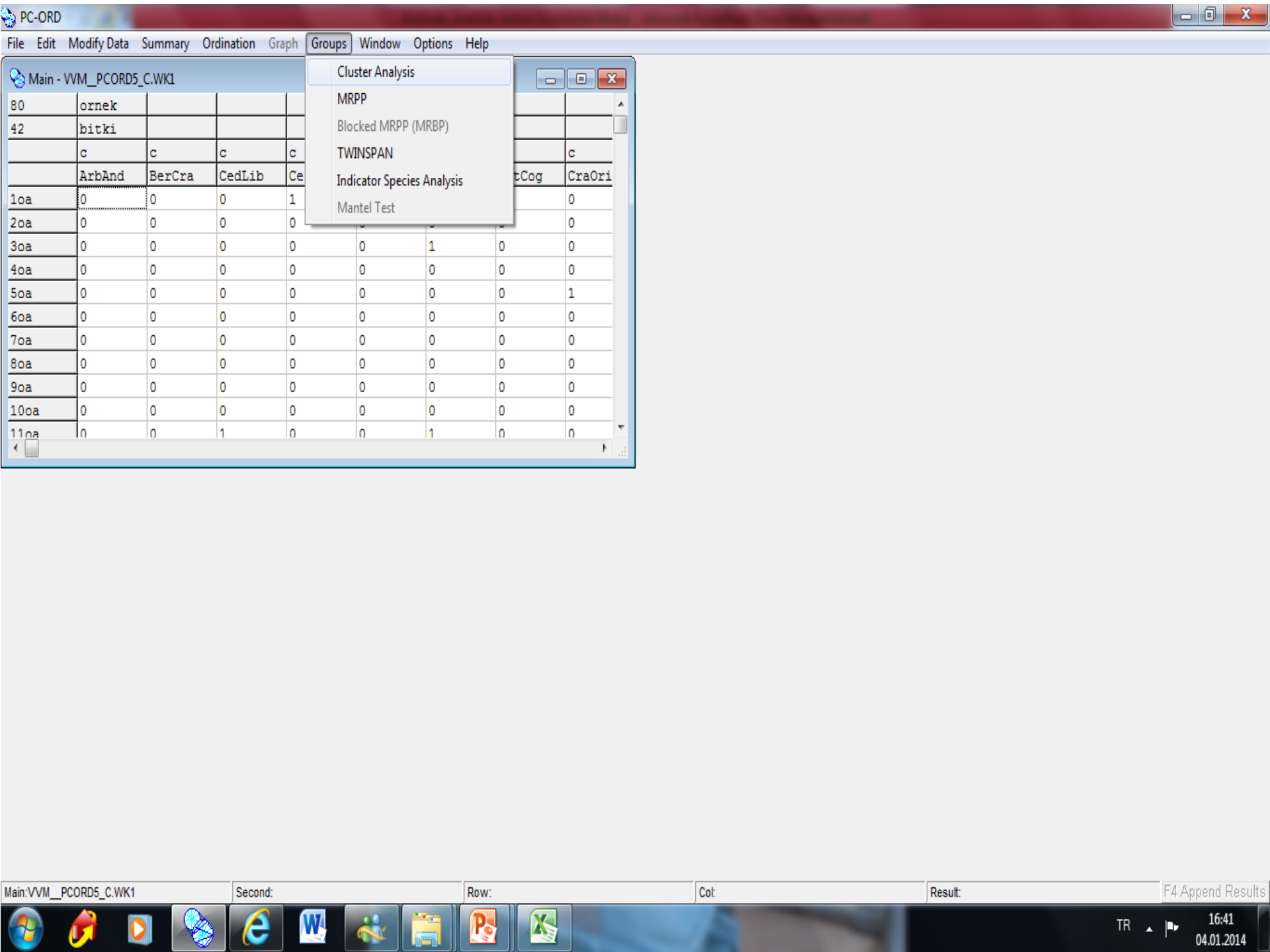
File Edit Modify Data Summary Ordination Graph Groups Window Options Help

Main - VVM_PCORD5_C.WK1

80	ornek							
42	bitki							
	c	c	c	c	c	c	c	c
	ArbAnd	BerCra	CedLib	CelGlb	CisSal	CotNum	CotCog	CraOri
1oa	0	0	0	1	0	1	0	0
2oa	0	0	0	0	0	0	0	0
3oa	0	0	0	0	0	1	0	0
4oa	0	0	0	0	0	0	0	0
5oa	0	0	0	0	0	0	0	1
6oa	0	0	0	0	0	0	0	0
7oa	0	0	0	0	0	0	0	0
8oa	0	0	0	0	0	0	0	0
9oa	0	0	0	0	0	0	0	0
10oa	0	0	0	0	0	0	0	0
11oa	0	0	1	0	0	1	0	0

Main:VVM__PCORD5_C.WK1 | Second: | Row: | Col: | Result: | F4 Append Results

TR 16:40 04.01.2014


PC-ORD
File Edit Modify Data Summary Ordination Graph Groups Window Options Help
Cluster Analysis
MRPP
Blocked MRPP (MRBP)
TWINSPAN
Indicator Species Analysis
Mantel Test
Main - VVM_PCORD5_C.WK1
80 ornek
42 bitki
c c c c c
ArbAnd BerCra CedLib Ce tCog CraOri
1oa 0 0 0 1 0
2oa 0 0 0 0 0
3oa 0 0 0 0 0 1 0 0
4oa 0 0 0 0 0 0 0 0
5oa 0 0 0 0 0 0 0 1
6oa 0 0 0 0 0 0 0 0
7oa 0 0 0 0 0 0 0 0
8oa 0 0 0 0 0 0 0 0
9oa 0 0 0 0 0 0 0 0
10oa 0 0 0 0 0 0 0 0
11oa 0 0 1 0 0 1 0 0
Main:VVM__PCORD5_C.WK1
Second:
Row:
Col:
Result:
F4 Append Results
TR
16:41
04.01.2014

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help

Main - VVM_PCORD5_C.WK1

80	ornek							
42	bitki							
	c	c	c	c	c	c	c	c
	ArbAnd	BerCra	CedLib	CelGlb	CisSal	CotNum	CotCog	CraOri
1oa	0	0	0	1				
2oa	0	0	0	0				
3oa	0	0	0	0				
4oa	0	0	0	0				
5oa	0	0	0	0				
6oa	0	0	0	0				
7oa	0	0	0	0				
8oa	0	0	0	0				
9oa	0	0	0	0				
10oa	0	0	0	0				
11oa	0	0	1	0				

Cluster Setup

Distance Measure
- ( ) Sorensen (Bray-Curtis)
- ( ) Relative Sorensen
- (•) Jaccard
- ( ) Euclidean (Pythagorean)
- ( ) Relative Euclidean
- ( ) Correlation
- ( ) Chi-squared

Group Linkage Method
- ( ) Nearest Neighbor
- ( ) Farthest Neighbor
- ( ) Median
- ( ) Group Average
- ( ) Centroid
- (•) Ward's Method
- ( ) Flexible Beta
- ( ) McQuitty's Method

Dendrogram Width
- (•) Narrow Width
- ( ) Wide Width

Dendrogram Spacing
- (•) Single-spaced
- ( ) Double-spaced

- [ ] Include cluster information with the Dendrogram
- [ ] Log transform Dendrogram scale
- [ ] Write distance Matrix
- [ ] Add group membership variable to second matrix

OK Cancel Help

Main:VVM_PCORD5_C.WK1 | Second: | Row: | Col: | Result: | F4 Append Results

TR 16:45 04.01.2014

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help

Main - VVM_PCORD5_C.WK1

80	ornek							
42	bitki							
	c	c	c	c	c	c	c	c
	ArbAnd	BerCra	CedLib	CelGlb	CisSal	CotNum	CotCog	CraOri
1oa	0	0	0	1	0	1	0	0
2oa	0	0	0	0	0	0	0	0
3oa	0	0	0	0	0	1	0	0
4oa	0	0	0	0	0	0	0	0
5oa	0	0	0	0	0	0	0	1
6oa	0	0	0	0	0	0	0	0
7oa	0	0	0	0	0	0	0	0
8oa	0	0	0	0	0	0	0	0
9oa	0	0	0	0	0	0	0	0
10oa	0	0	0	0	0	0	0	0
11oa	0	0	1	0	0	1	0	0

Result - RESULT.TXT

```
********** Hierarchical Cluster Analysis **********
PC-ORD, Version 4.0
 4 Jan 2014, 16:46


Linkage method:    WARD`S METHOD
Distance measure:  Jaccard


Percent chaining =   1.50
```

Main:VVM_PCORD5_C.WK1 | Second: | Row: | Col: | Result: | F4 Append Results

TR 16:47 04.01.2014

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help

Graph Ordination
Cluster Dendrogram
Species-area Curves
NMS Scree Plot

Main - VVM_PCORD5_C.WK1

80	ornek							
42	bitki							
	c	c	c				c	c
	ArbAnd	BerCra	CedLib	CelGlb	CisSal	CotNum	CotCog	CraOri
1oa	0	0	0	1	0	1	0	0
2oa	0	0	0	0	0	0	0	0
3oa	0	0	0	0	0	1	0	0
4oa	0	0	0	0	0	0	0	0
5oa	0	0	0	0	0	0	0	1
6oa	0	0	0	0	0	0	0	0
7oa	0	0	0	0	0	0	0	0
8oa	0	0	0	0	0	0	0	0
9oa	0	0	0	0	0	0	0	0
10oa	0	0	0	0	0	0	0	0
11oa	0	0	1	0	0	1	0	0

Result - RESULT.TXT

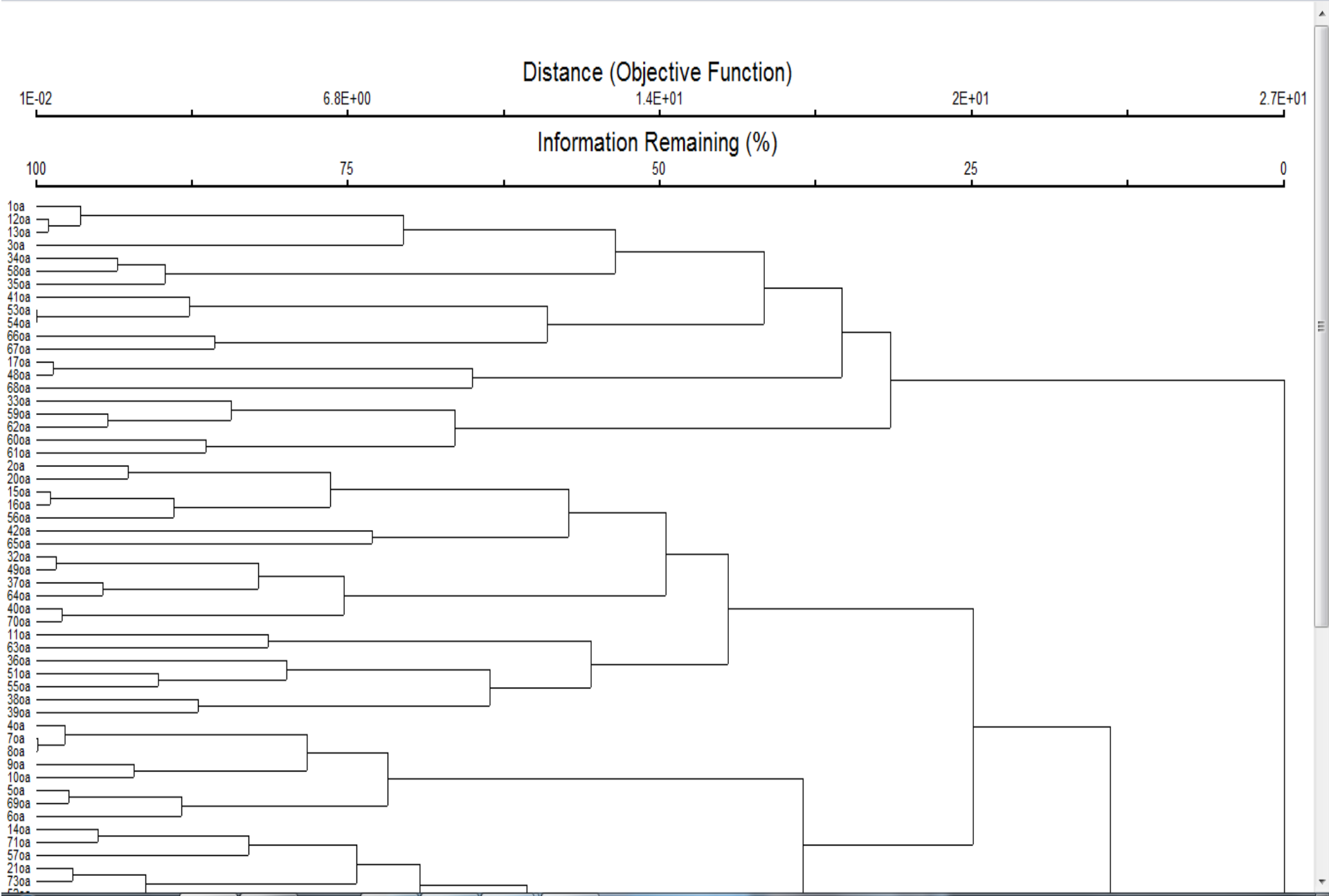
```
********** Hierarchical Cluster Analysis **********
PC-ORD, Version 4.0
 4 Jan 2014, 16:46


Linkage method:    WARD`S METHOD
Distance measure:  Jaccard


Percent chaining =   1.50
```

Main:VVM_PCORD5_C.WK1 | Second: | Row: | Col: | Result: | F4 Append Results

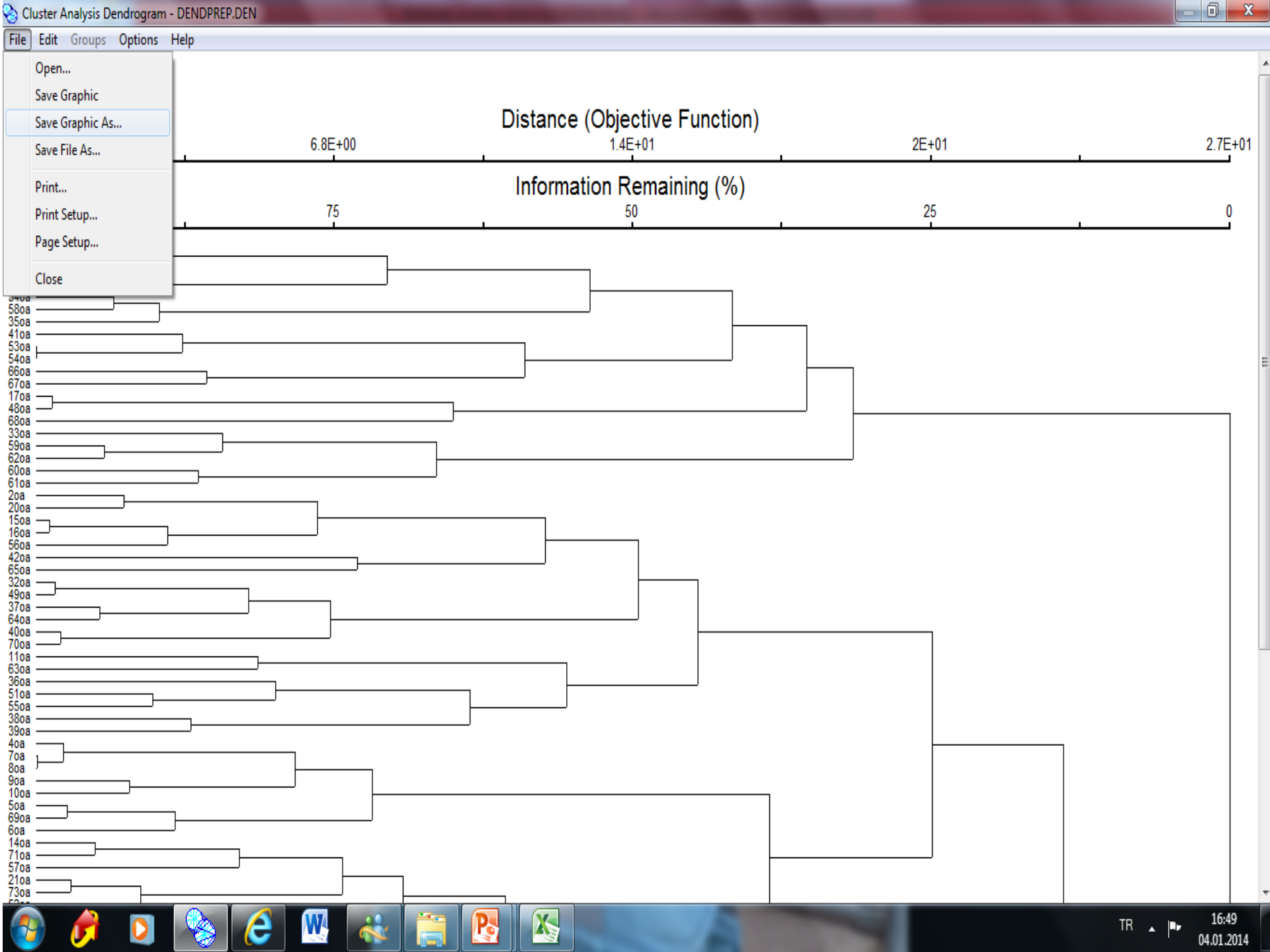
TR 16:47 04.01.2014

Cluster Analysis Dendrogram - DENDPREP.DEN

File Edit Groups Options Help



TR 16:48 04.01.2014


Cluster Analysis Dendrogram - DENDPREP.DEN
File
Edit
Groups
Options
Help
Open...
Save Graphic
Save Graphic As...
Save File As...
Print...
Print Setup...
Page Setup...
Close
Distance (Objective Function)
6.8E+00
1.4E+01
2E+01
2.7E+01
Information Remaining (%)
75
50
25
0
58oa
35oa
41oa
53oa
54oa
66oa
67oa
17oa
48oa
68oa
33oa
59oa
62oa
60oa
61oa
2oa
20oa
15oa
16oa
56oa
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49oa
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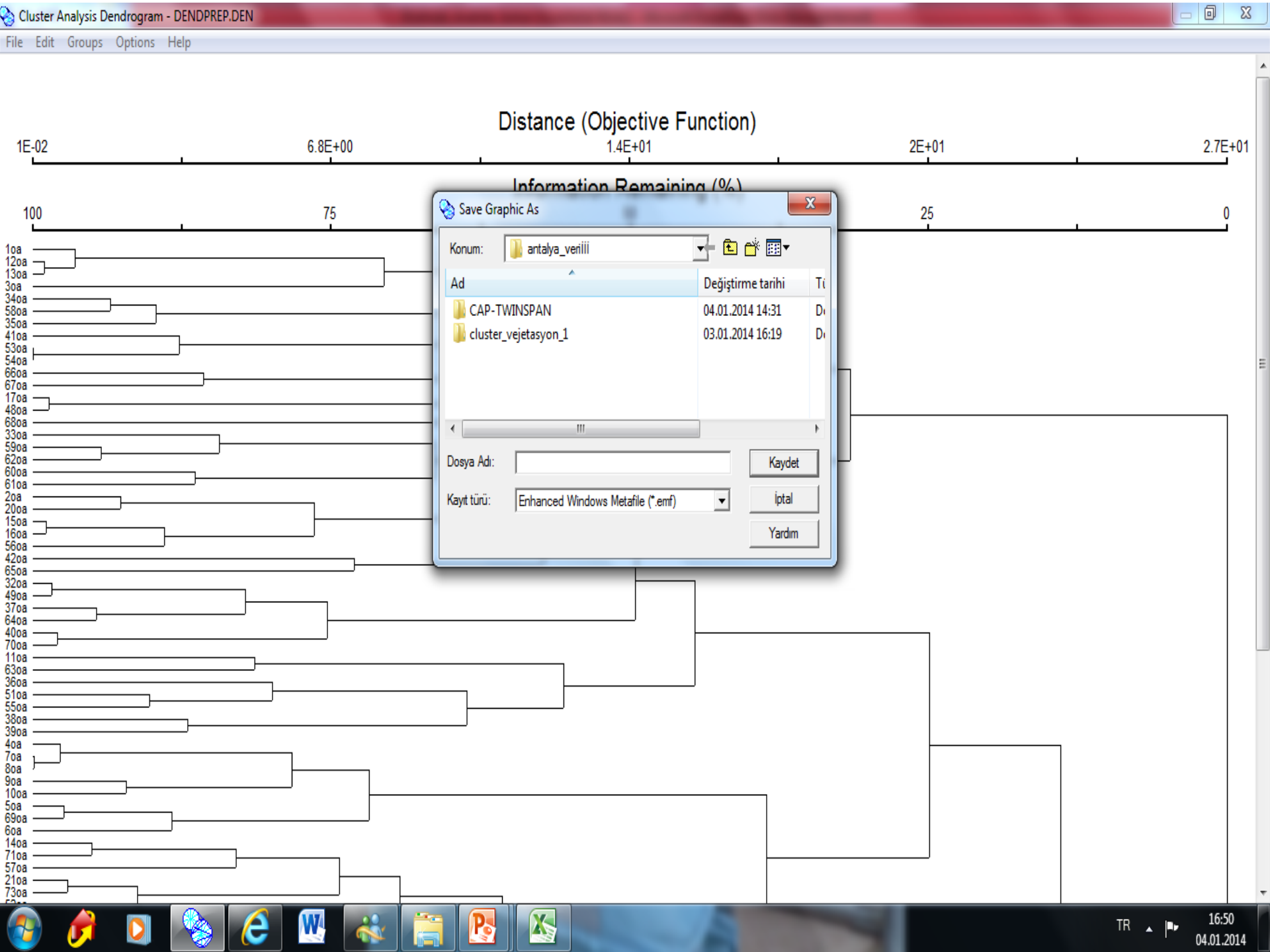
73oa
TR
16:49
04.01.2014


Cluster Analysis Dendrogram - DENDPREP.DEN
File Edit Groups Options Help
Distance (Objective Function)
1E-02
6.8E+00
1.4E+01
2E+01
2.7E+01
Information Remaining (%)
100
75
25
0
Save Graphic As
Konum:
antalya_verilii
Ad
Değiştirme tarihi
CAP-TWINSPAN
04.01.2014 14:31
cluster_vejetasyon_1
03.01.2014 16:19
Dosya Adı:
Kaydet
Kayıt türü:
Enhanced Windows Metafile (*.emf)
İptal
Yardım
1oa
12oa
13oa
3oa
34oa
58oa
35oa
41oa
53oa
54oa
66oa
67oa
17oa
48oa
68oa
33oa
59oa
62oa
60oa
61oa
2oa
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4oa
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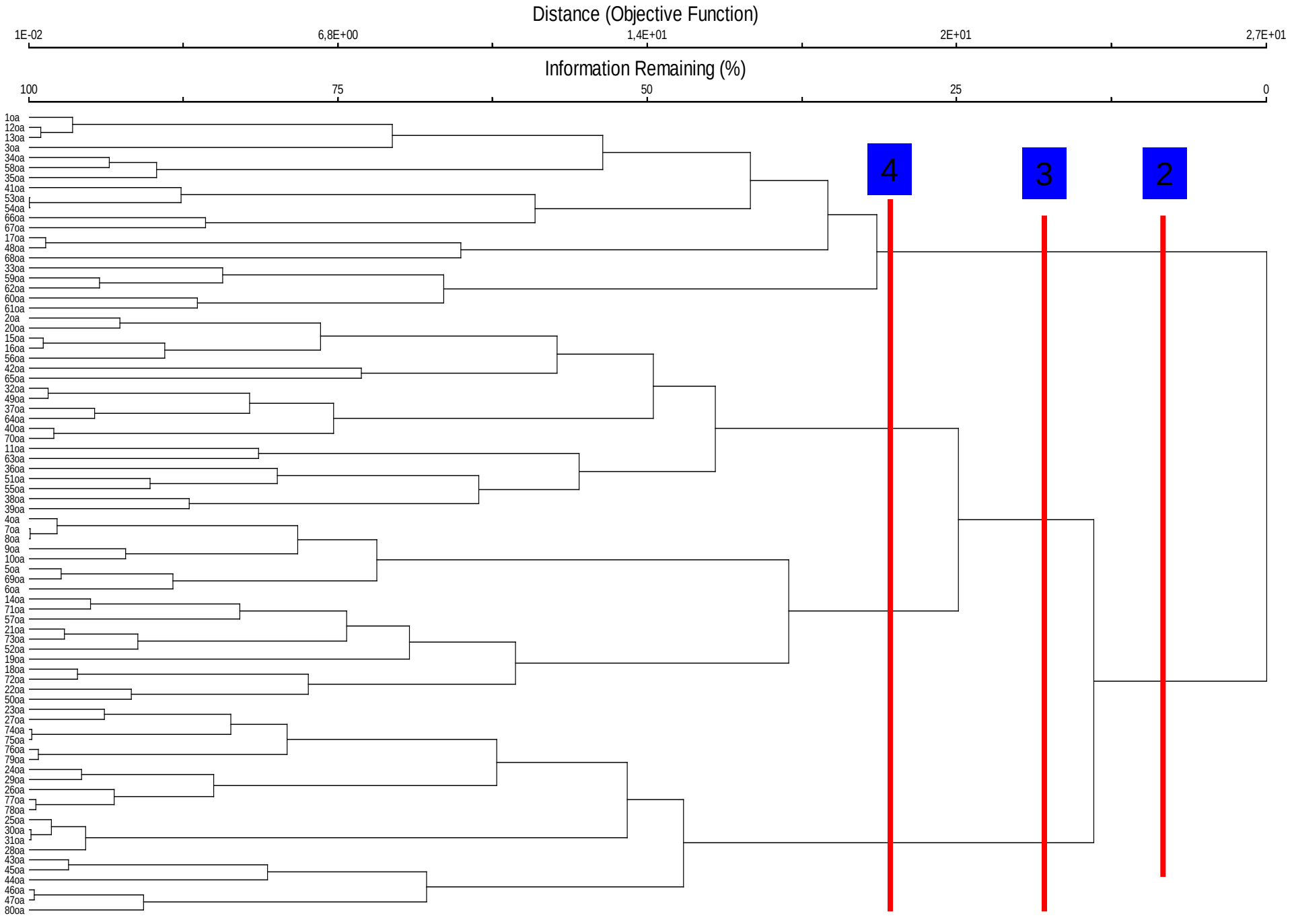
57oa
21oa
73oa
TR
16:50
04.01.2014


Distance (Objective Function)
1E-02
6,8E+00
1,4E+01
2E+01
2,7E+01
Information Remaining (%)
100
75
50
25
0
4
3
2
1oa
12oa
13oa
3oa
34oa
58oa
35oa
41oa
53oa
54oa
66oa
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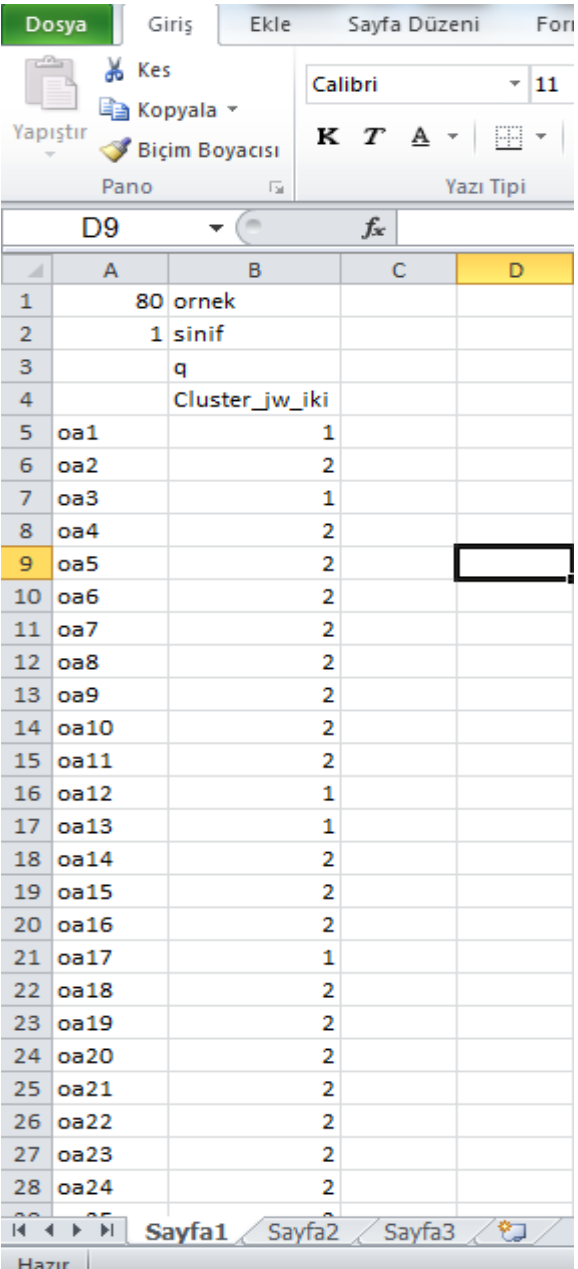
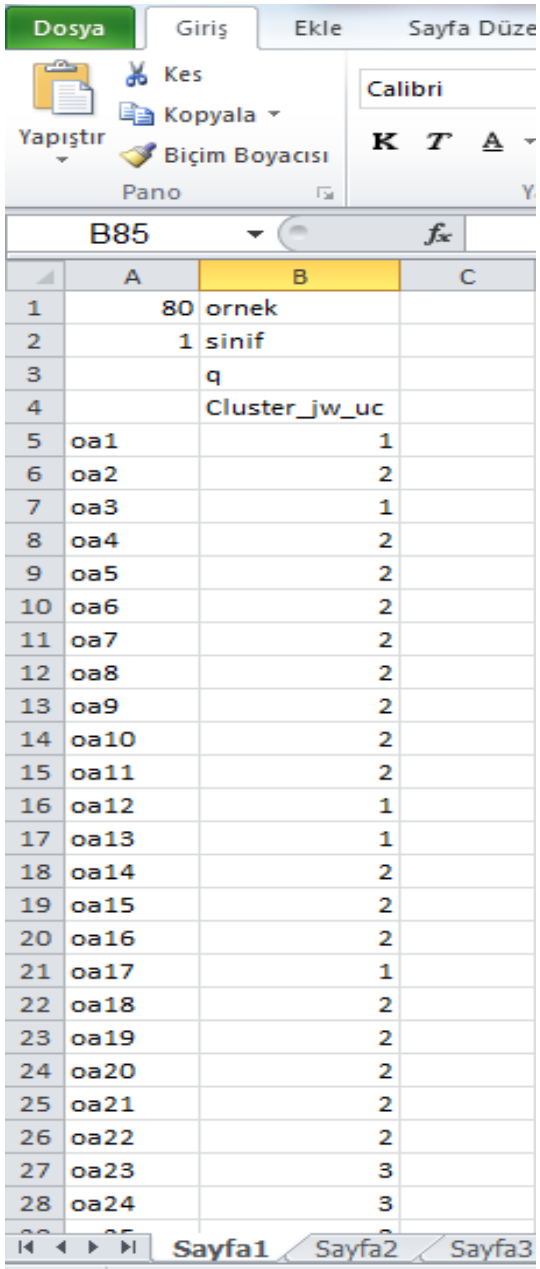
76oa
79oa
24oa
29oa
26oa
77oa
78oa
25oa
30oa
31oa
28oa
43oa
45oa
44oa
46oa
47oa
80oa

Jaccard-Wards İkili Ayrım



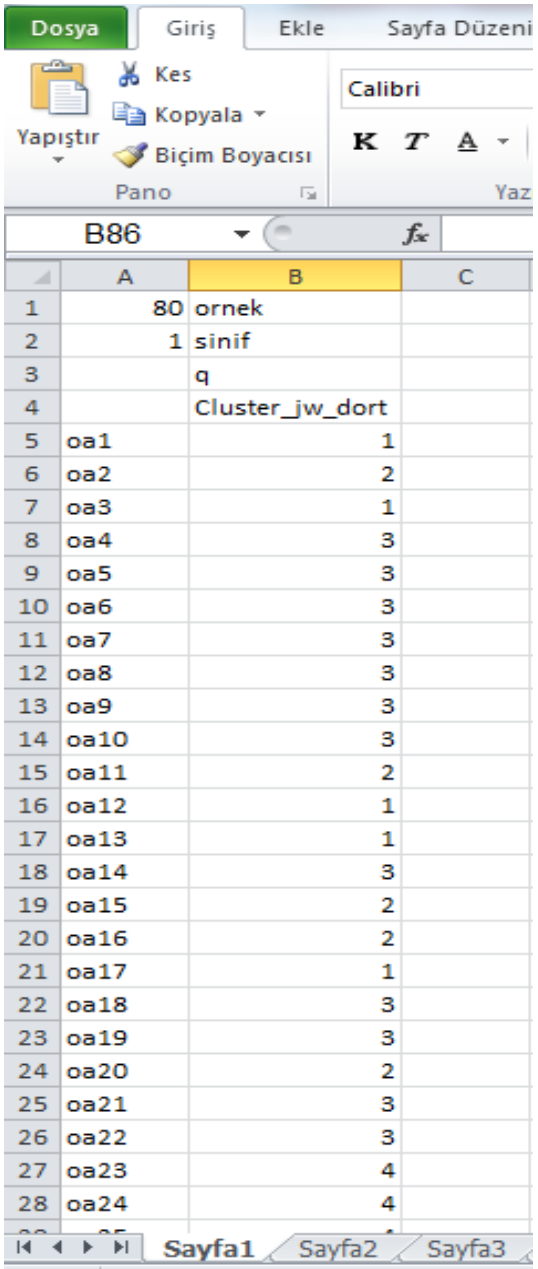
	A	B	C	D
1	80	ornek		
2	1	sinif		
3		q		
4		Cluster_jw_iki		
5	oa1	1		
6	oa2	2		
7	oa3	1		
8	oa4	2		
9	oa5	2		
10	oa6	2		
11	oa7	2		
12	oa8	2		
13	oa9	2		
14	oa10	2		
15	oa11	2		
16	oa12	1		
17	oa13	1		
18	oa14	2		
19	oa15	2		
20	oa16	2		
21	oa17	1		
22	oa18	2		
23	oa19	2		
24	oa20	2		
25	oa21	2		
26	oa22	2		
27	oa23	2		
28	oa24	2		

Jaccard-Wards Üçlü Ayrım



	A	B	C
1	80	ornek	
2	1	sinif	
3		q	
4		Cluster_jw_uc	
5	oa1	1	
6	oa2	2	
7	oa3	1	
8	oa4	2	
9	oa5	2	
10	oa6	2	
11	oa7	2	
12	oa8	2	
13	oa9	2	
14	oa10	2	
15	oa11	2	
16	oa12	1	
17	oa13	1	
18	oa14	2	
19	oa15	2	
20	oa16	2	
21	oa17	1	
22	oa18	2	
23	oa19	2	
24	oa20	2	
25	oa21	2	
26	oa22	2	
27	oa23	3	
28	oa24	3	

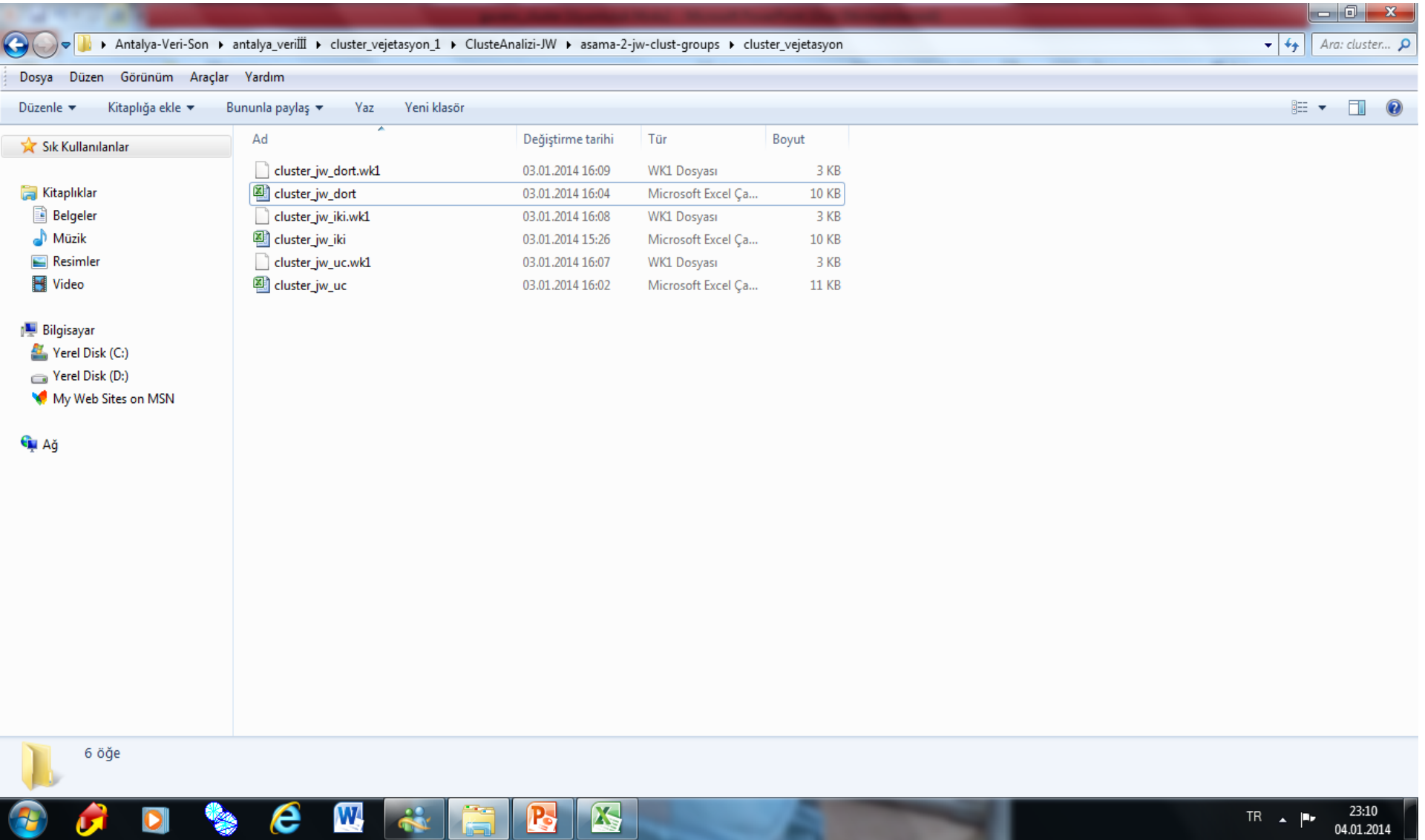
Jaccard-Wards Dörtlü Ayrım



	A	B	C
1	80	ornek	
2	1	sinif	
3		q	
4		Cluster_jw_dort	
5	oa1	1	
6	oa2	2	
7	oa3	1	
8	oa4	3	
9	oa5	3	
10	oa6	3	
11	oa7	3	
12	oa8	3	
13	oa9	3	
14	oa10	3	
15	oa11	2	
16	oa12	1	
17	oa13	1	
18	oa14	3	
19	oa15	2	
20	oa16	2	
21	oa17	1	
22	oa18	3	
23	oa19	3	
24	oa20	2	
25	oa21	3	
26	oa22	3	
27	oa23	4	
28	oa24	4	

Sorensen-Wards, Sorensen-Flexible Beta, Jaccard-Flexible Beta uygulamaları da sıklıkla tercih edilmektedir. Bu seçenekler içinde aynı uygulama yapılabilir.

Jaccard-Wards'ın her ayrım aşaması için wk1 dosyaları



PcORD'da Uygulanan Cluster Analizi Jaccard-Wards Sınıflandırmaları İçin Yine PcORD'da MRPP ve PAST'ta One-Way ANOSIM Analizlerinin Uygulanması

MRPP ANALİZİ

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help

Main - VVM_PCORD5_C.WK1

80	ornek							
42	bitki							
	c	c	c	c	c	c	c	c
	ArbAnd	BerCra	CedLib	CelGlb	CisSal	CotNum	CotCog	CraOri
1oa	0	0	0	1	0	1	0	0
2oa	0	0	0	0	0	0	0	0
3oa	0	0	0	0	0	1	0	0
4oa	0	0	0	0	0	0	0	0
5oa	0	0	0	0	0	0	0	1
6oa	0	0	0	0	0	0	0	0
7oa	0	0	0	0	0	0	0	0
8oa	0	0	0	0	0	0	0	0
9oa	0	0	0	0	0	0	0	0
10oa	0	0	0	0	0	0	0	0
11oa	0	0	1	0	0	1	0	0

Bütün halindeki vejetasyon veri Matrisi main matris olarak

Second - CLUSTER_JW_IKI.WK1

80	ornek
1	sinif
	q
	Cluster
oa1	1
oa2	2
oa3	1
oa4	2
oa5	2
oa6	2
oa7	2
oa8	2
oa9	2
oa10	2
oa11	2
oa12	1

Burada bu matrisin Quantitative (q) olarak Oluşturulması gerekir

Jackard-Wards 2'li ayrım için Oluşturulan vejetasyon veri matrisi ise second matris olarak açılır

Main:VVM__PCORD5_C.WK1 | Second:CLUSTER_JW_IKI.WK1 | Row: | Col: | Result: | F4 Append Results

TR 23:15 04.01.2014

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help

- Cluster Analysis
- MRPP
- Blocked MRPP (MRBP)
- TWINSPAN
- Indicator Species Analysis
- Mantel Test

Main - VVM_PCORD5_C.WK1

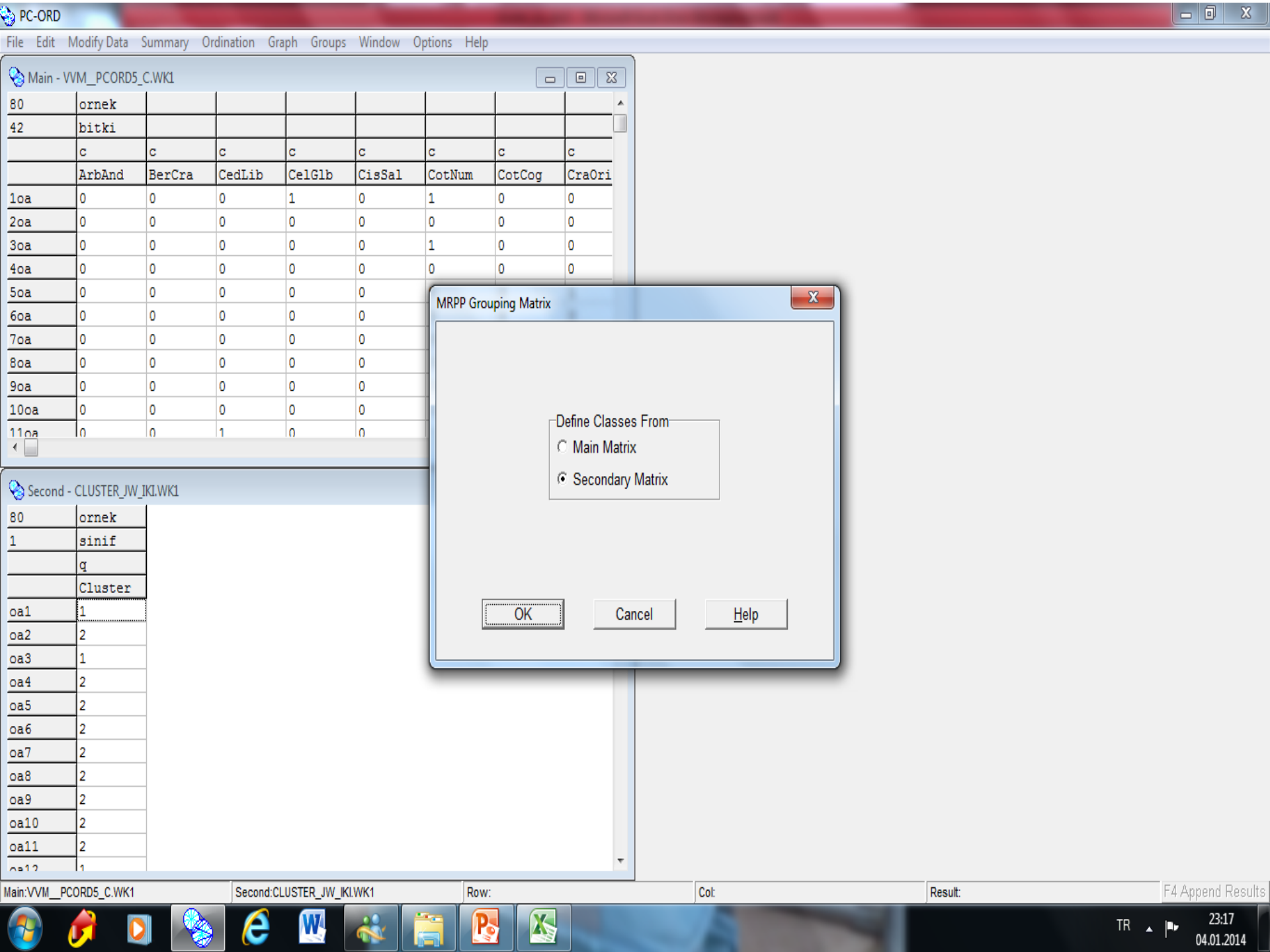
80	ornek						
42	bitki						
	c	c	c	c			c
	ArbAnd	BerCra	CedLib	Ce		tCog	CraOri
1oa	0	0	0	1			0
2oa	0	0	0	0			0
3oa	0	0	0	0	0	1	0	0
4oa	0	0	0	0	0	0	0	0
5oa	0	0	0	0	0	0	0	1
6oa	0	0	0	0	0	0	0	0
7oa	0	0	0	0	0	0	0	0
8oa	0	0	0	0	0	0	0	0
9oa	0	0	0	0	0	0	0	0
10oa	0	0	0	0	0	0	0	0
11oa	0	0	1	0	0	1	0	0

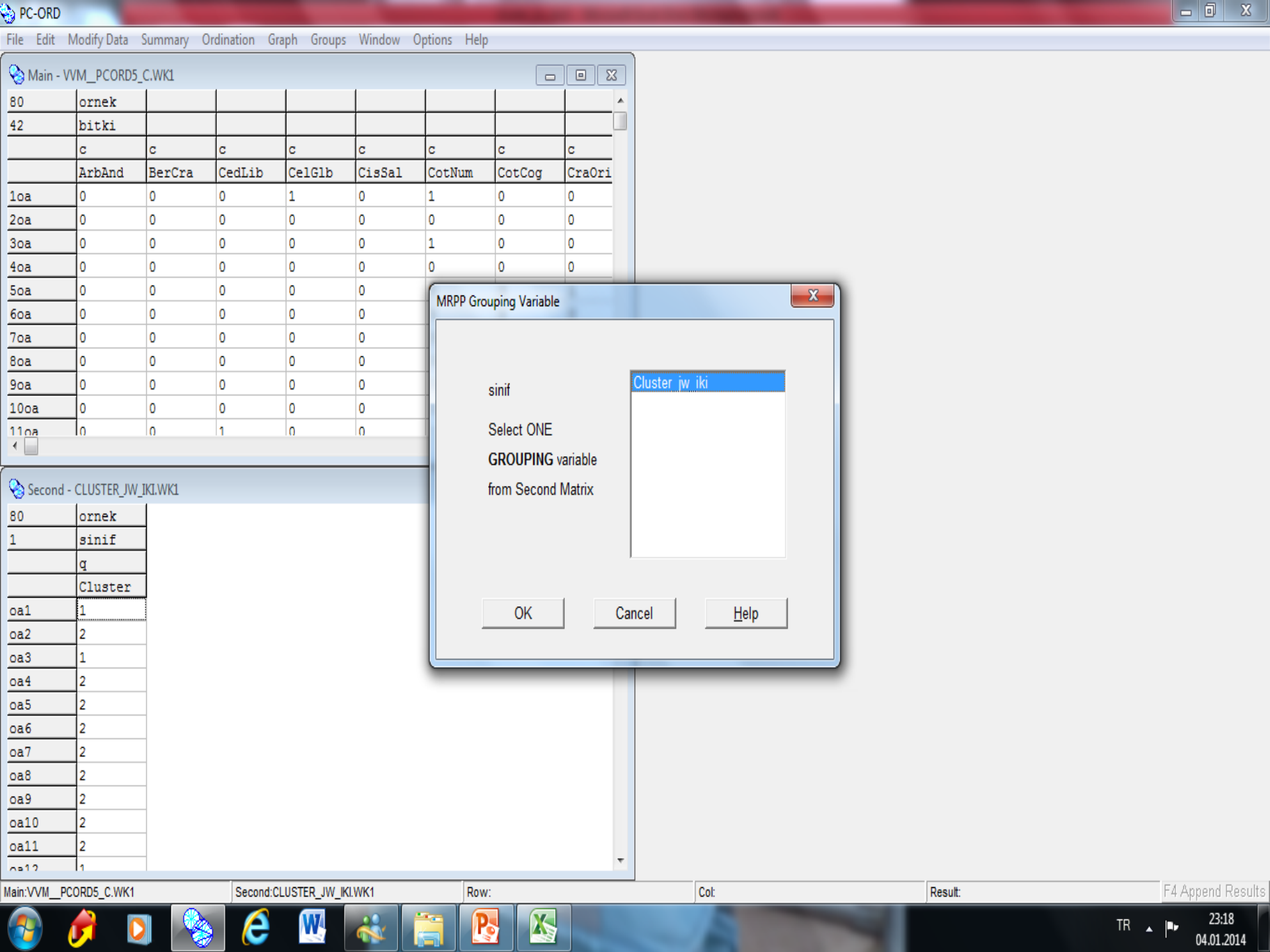
Second - CLUSTER_JW_IKI.WK1

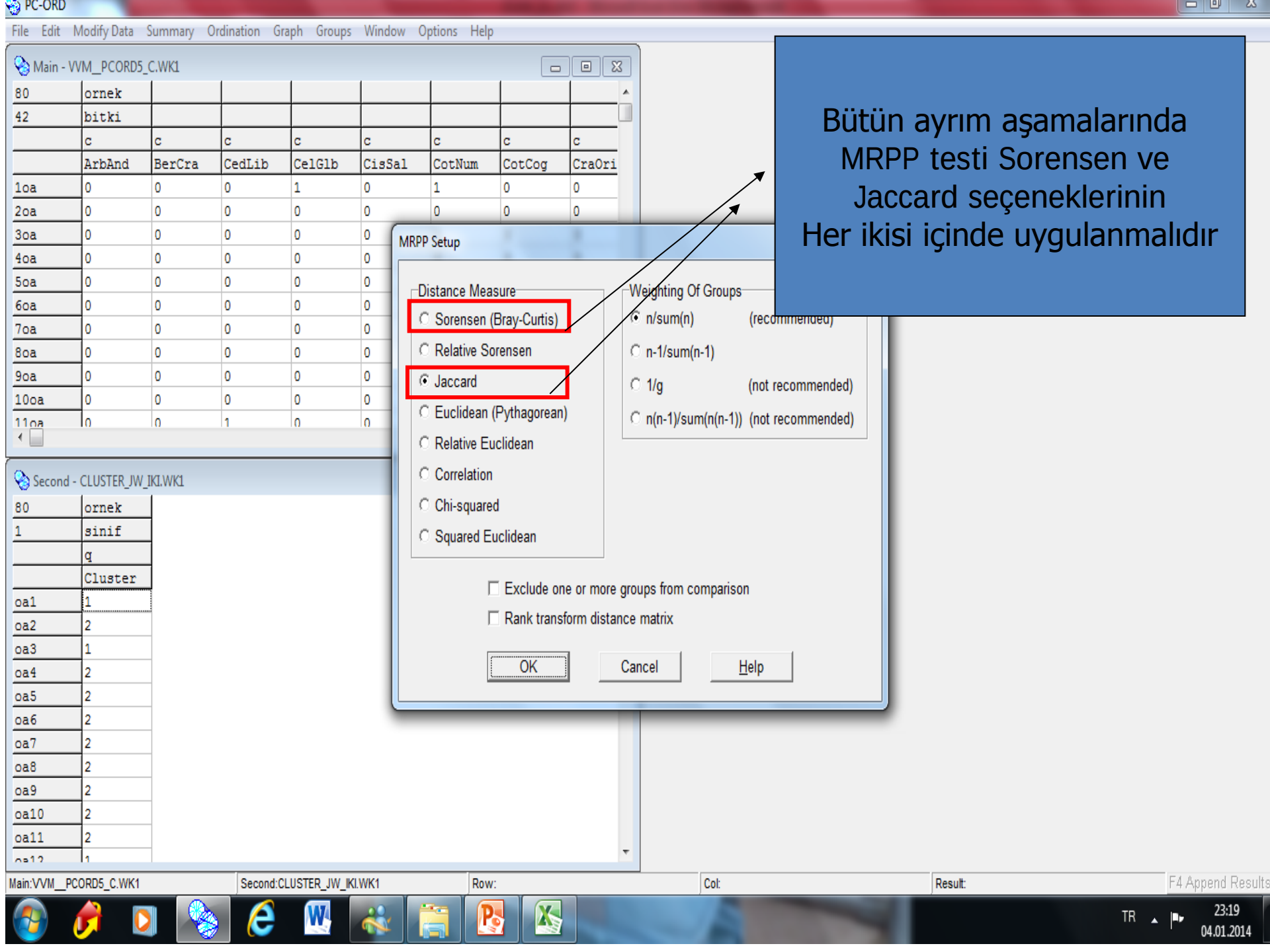
80	ornek
1	sinif
	q
	Cluster
oa1	1
oa2	2
oa3	1
oa4	2
oa5	2
oa6	2
oa7	2
oa8	2
oa9	2
oa10	2
oa11	2
oa12	1

Main:VVM_PCORD5_C.WK1 | Second:CLUSTER_JW_IKI.WK1 | Row: | Col: | Result: | F4 Append Results

TR 23:16 04.01.2014


PC-ORD
File Edit Modify Data Summary Ordination Graph Groups Window Options Help
Main - VVM_PCORD5_C.WK1
80 ornek
42 bitki
c c c c c c c c
ArbAnd BerCra CedLib CelGlb CisSal CotNum CotCog CraOri
1oa 0 0 0 1 0 1 0 0
2oa 0 0 0 0 0 0 0 0
3oa 0 0 0 0 0 1 0 0
4oa 0 0 0 0 0 0 0 0
5oa 0 0 0 0 0
6oa 0 0 0 0 0
7oa 0 0 0 0 0
8oa 0 0 0 0 0
9oa 0 0 0 0 0
10oa 0 0 0 0 0
11oa 0 0 1 0 0
MRPP Grouping Matrix
Define Classes From
Main Matrix
Secondary Matrix
OK
Cancel
Help
Second - CLUSTER_JW_IKI.WK1
80 ornek
1 sinif
q
Cluster
oa1 1
oa2 2
oa3 1
oa4 2
oa5 2
oa6 2
oa7 2
oa8 2
oa9 2
oa10 2
oa11 2
Main:VVM__PCORD5_C.WK1
Second:CLUSTER_JW_IKI.WK1
Row:
Col:
Result:
F4 Append Results
TR
23:17
04.01.2014


PC-ORD
File Edit Modify Data Summary Ordination Graph Groups Window Options Help
Main - VVM_PCORD5_C.WK1
80 ornek
42 bitki
c c c c c c c c
ArbAnd BerCra CedLib CelGlb CisSal CotNum CotCog CraOri
1oa 0 0 0 1 0 1 0 0
2oa 0 0 0 0 0 0 0 0
3oa 0 0 0 0 0 1 0 0
4oa 0 0 0 0 0 0 0 0
5oa 0 0 0 0 0
6oa 0 0 0 0 0
7oa 0 0 0 0 0
8oa 0 0 0 0 0
9oa 0 0 0 0 0
10oa 0 0 0 0 0
11oa 0 0 1 0 0
MRPP Grouping Variable
sinif
Select ONE
GROUPING variable
from Second Matrix
Cluster_jw_iki
OK
Cancel
Help
Second - CLUSTER_JW_IKI.WK1
80 ornek
1 sinif
q
Cluster
oa1 1
oa2 2
oa3 1
oa4 2
oa5 2
oa6 2
oa7 2
oa8 2
oa9 2
oa10 2
oa11 2
Main:VVM__PCORD5_C.WK1
Second:CLUSTER_JW_IKI.WK1
Row:
Col:
Result:
F4 Append Results
TR
23:18
04.01.2014

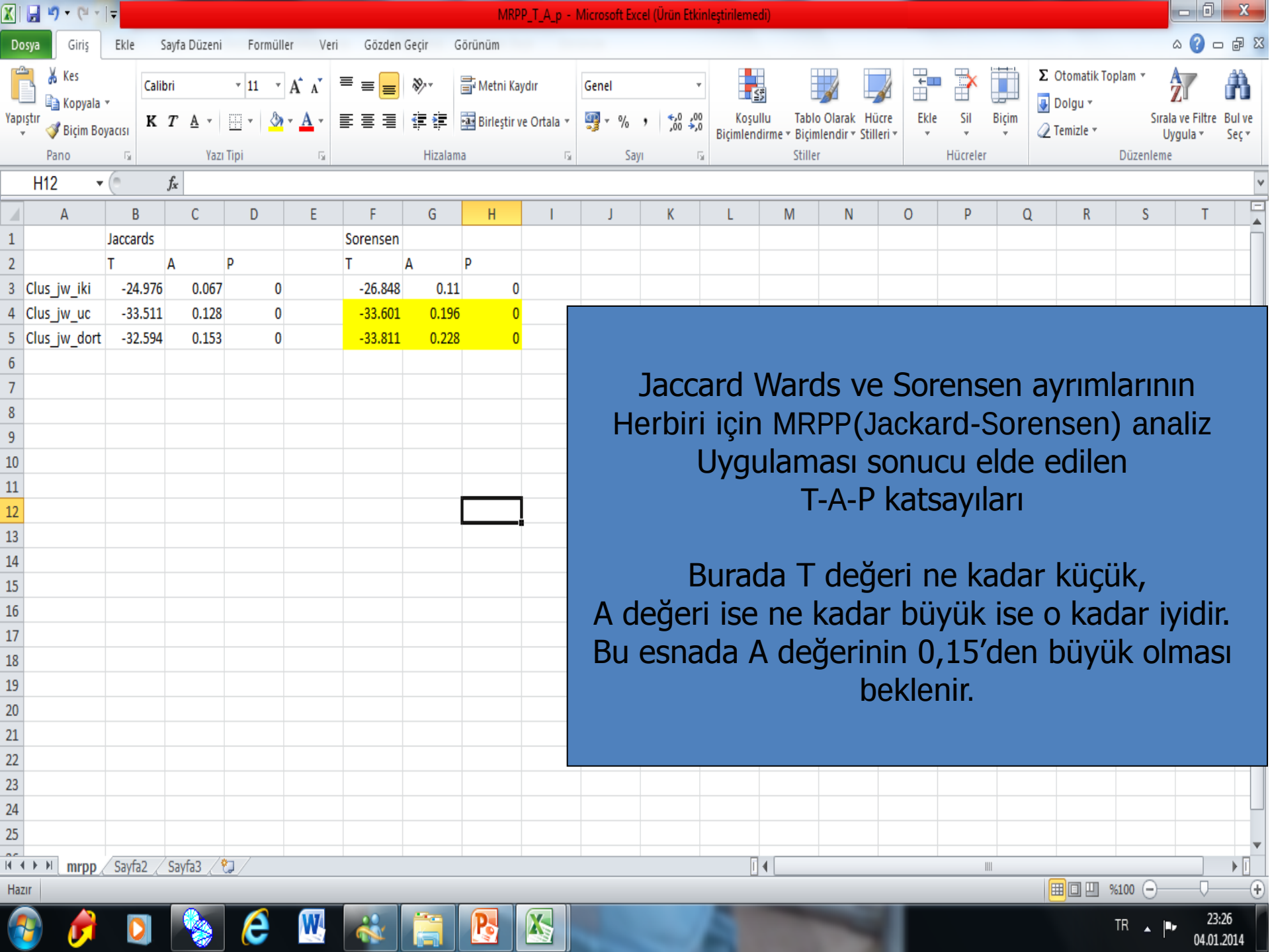

PC-ORD
File Edit Modify Data Summary Ordination Graph Groups Window Options Help
Main - VVM_PCORD5_C.WK1
80 ornek
42 bitki
c c c c c c c c
ArbAnd BerCra CedLib CelGlb CisSal CotNum CotCog CraOri
1oa 0 0 0 1 0 1 0 0
2oa 0 0 0 0 0 0 0 0
3oa 0 0 0 0 0
4oa 0 0 0 0 0
5oa 0 0 0 0 0
6oa 0 0 0 0 0
7oa 0 0 0 0 0
8oa 0 0 0 0 0
9oa 0 0 0 0 0
10oa 0 0 0 0 0
11oa 0 0 1 0 0
Second - CLUSTER_JW_IKI.WK1
80 ornek
1 sinif
q
Cluster
oa1 1
oa2 2
oa3 1
oa4 2
oa5 2
oa6 2
oa7 2
oa8 2
oa9 2
oa10 2
oa11 2
MRPP Setup
Distance Measure
Sorensen (Bray-Curtis)
Relative Sorensen
Jaccard
Euclidean (Pythagorean)
Relative Euclidean
Correlation
Chi-squared
Squared Euclidean
Weighting Of Groups
n/sum(n) (recommended)
n-1/sum(n-1)
1/g (not recommended)
n(n-1)/sum(n(n-1)) (not recommended)
Exclude one or more groups from comparison
Rank transform distance matrix
OK
Cancel
Help
Bütün ayrım aşamalarında
MRPP testi Sorensen ve
Jaccard seçeneklerinin
Her ikisi içinde uygulanmalıdır
Main:VVM_PCORD5_C.WK1
Second:CLUSTER_JW_IKI.WK1
Row:
Col:
Result:
F4 Append Results
TR
23:19
04.01.2014

```
        Input data has:      80 ornek    by     42 bitki
        Weighting option: C(I) = n(I)/sum(n(I))
        Distance measure: Jaccard

GROUP:    1
Code:     1
Size:    20      0.78345582    = Average distance
Members:
 1oa      3oa      12oa     13oa     17oa     33oa     34oa     35oa
 41oa     48oa     53oa     54oa     58oa     59oa     60oa     61oa
 62oa     66oa     67oa     68oa

GROUP:    2
Code:     2
Size:    60      0.75360311    = Average distance
Members:
 2oa      4oa      5oa      6oa      7oa      8oa      9oa      10oa
 11oa     14oa     15oa     16oa     18oa     19oa     20oa     21oa
 22oa     23oa     24oa     25oa     26oa     27oa     28oa     29oa
 30oa     31oa     32oa     36oa     37oa     38oa     39oa     40oa
 42oa     43oa     44oa     45oa     46oa     47oa     49oa     50oa
 51oa     52oa     55oa     56oa     57oa     63oa     64oa     65oa
 69oa     70oa     71oa     72oa     73oa     74oa     75oa     76oa
 77oa     78oa     79oa     80oa

        Test statistic: T =      -24.976894
           Observed delta =      0.76106628
           Expected delta =      0.81639890
        Variance of delta =      0.49077852E-05
        Skewness of delta =      -1.1303158

        Chance-corrected within-group agreement, A =   0.06777645
          A = 1 - (observed delta/expected delta)
          Amax = 1 when all items are identical within groups (delta=0)
          A = 0 when heterogeneity within groups equals expectation by chance
          A < 0 with more heterogeneity within groups than expected by chance

        Probability of a smaller or equal delta, p =   0.00000000

****************************** MRPP finished ******************************
```

T,A ve P değerleri Alınıp excelde Kıyaslama Yapmak Üzere kayıt edilir

Main:VVM__PCORD5_C.WK1 | Second:CLUSTER_JW_IKI.WK1 | Row: | Col: | Result: | F4 Append Results

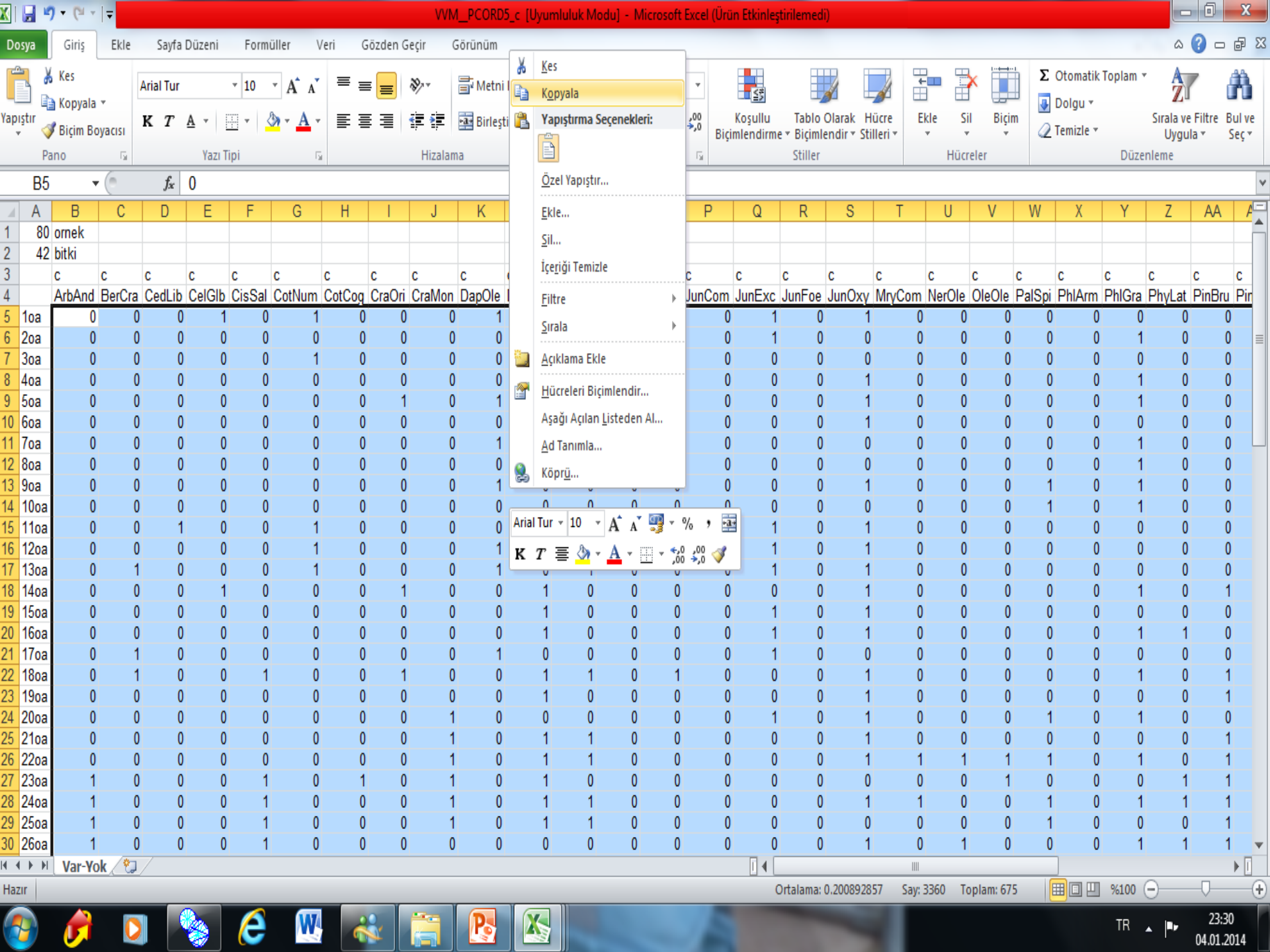
TR 23:21 04.01.2014


MRPP_T_A_p - Microsoft Excel (Ürün Etkinleştirilemedi)
Dosya Giriş Ekle Sayfa Düzeni Formüller Veri Gözden Geçir Görünüm
H12
Jaccards
Sorensen
T A P T A P
Clus_jw_iki -24.976 0.067 0 -26.848 0.11 0
Clus_jw_uc -33.511 0.128 0 -33.601 0.196 0
Clus_jw_dort -32.594 0.153 0 -33.811 0.228 0
Jaccard Wards ve Sorensen ayrımlarının Herbiri için MRPP(Jackard-Sorensen) analiz Uygulaması sonucu elde edilen T-A-P katsayıları
Burada T değeri ne kadar küçük, A değeri ise ne kadar büyük ise o kadar iyidir. Bu esnada A değerinin 0,15'den büyük olması beklenir.
mrpp Sayfa2 Sayfa3
Hazır
%100
TR
23:26
04.01.2014

- **Bu işlemler tüm ayrımlar için tekrarlanır.**

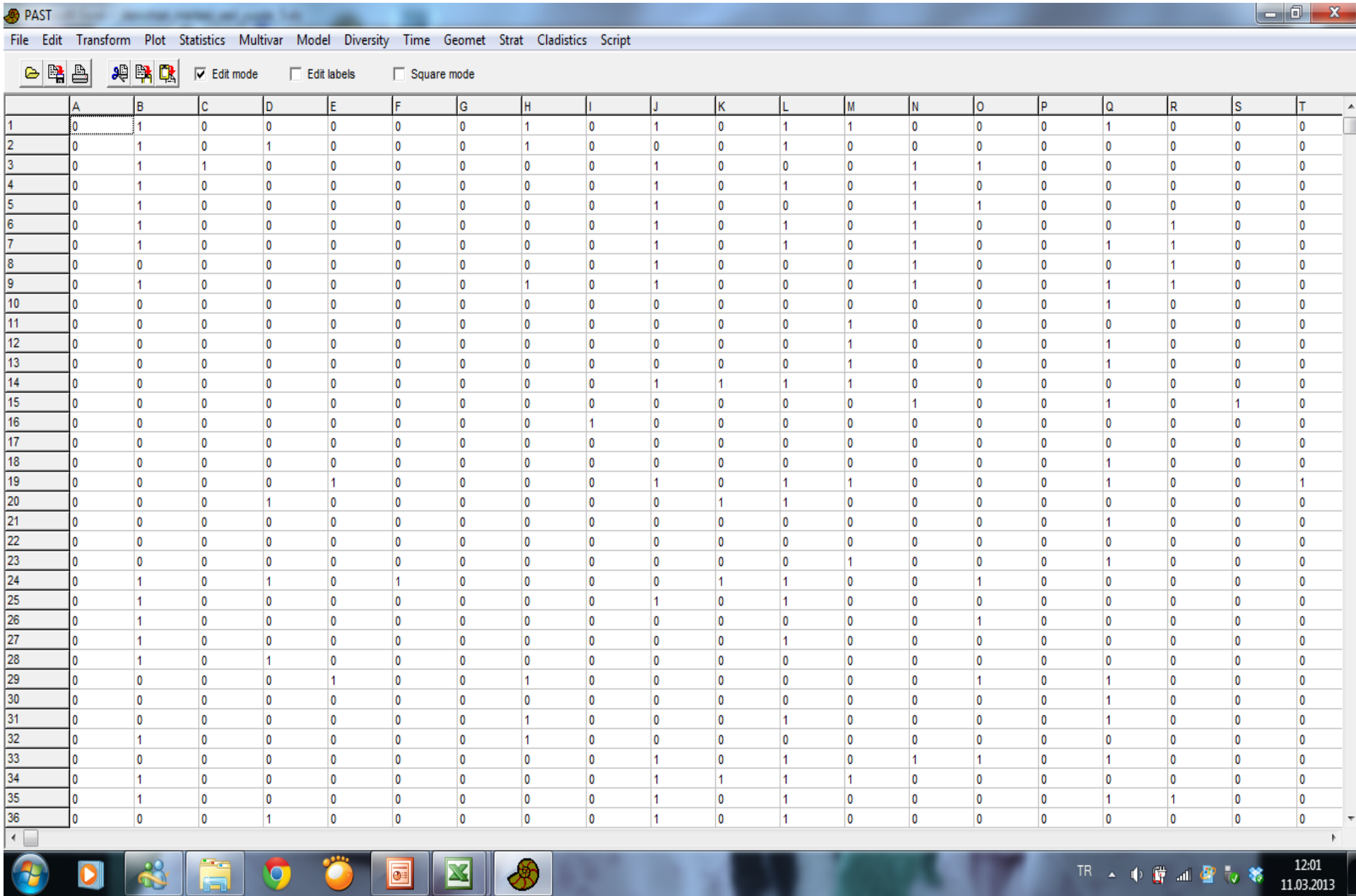
One-Way_ANOSIM Analizi

PAST Programında Uygulama

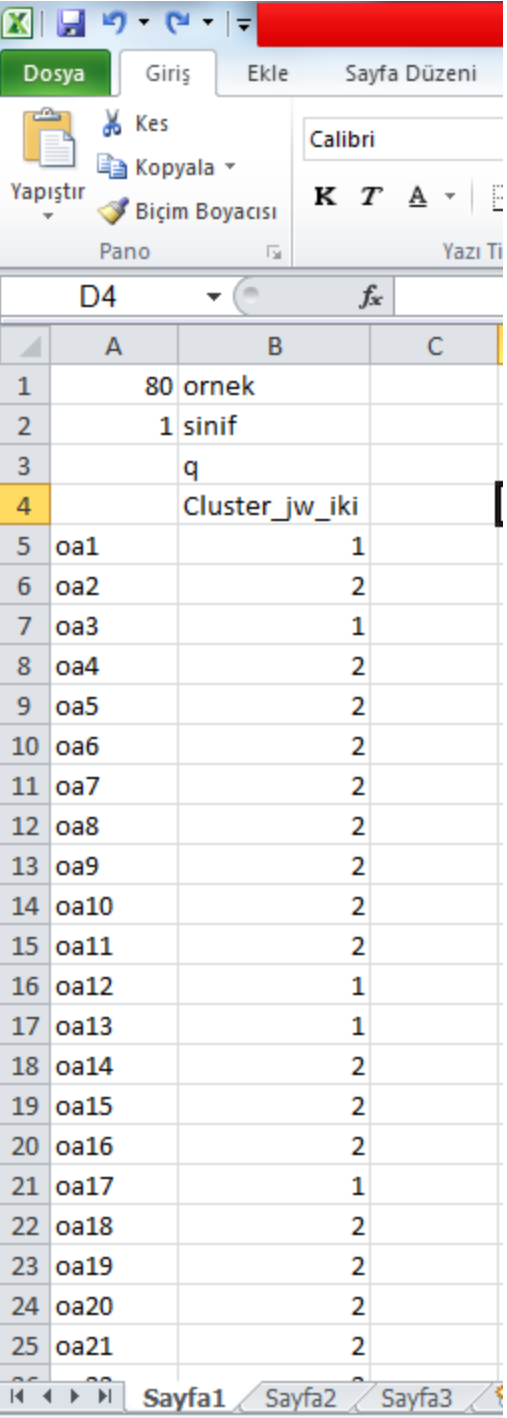


	A	B	C	D	E	F	G	H	I	J	K	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	80	ornek																					
2	42	bitki																					
3		c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c
4		ArbAnd	BerCra	CedLib	CelGlb	CisSal	CotNum	CotCog	CraOri	CraMon	DapOle	JunCom	JunExc	JunFoe	JunOxy	MryCom	NerOle	OleOle	PalSpi	PhlArm	PhlGra	PhyLat	PinBru
5	1oa	0	0	0	1	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0
6	2oa	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
7	3oa	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	4oa	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
9	5oa	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0
10	6oa	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
11	7oa	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0
12	8oa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
13	9oa	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0
14	10oa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
15	11oa	0	0	1	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
16	12oa	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0
17	13oa	0	1	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0
18	14oa	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0	1
19	15oa	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
20	16oa	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0
21	17oa	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
22	18oa	0	1	0	0	1	0	0	1	0	0	1	1	0	1	0	0	0	0	0	1	0	1
23	19oa	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1
24	20oa	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	1	0	0
25	21oa	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	1
26	22oa	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	1	1	1	0	1	0	1
27	23oa	1	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	1	0	0	0	1	1
28	24oa	1	0	0	0	1	0	0	0	1	0	1	1	0	0	1	0	0	1	0	1	1	1
29	25oa	1	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	1	0	0	1
30	26oa	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1

Kopyalanan veri PAST'ta yapıştırılır

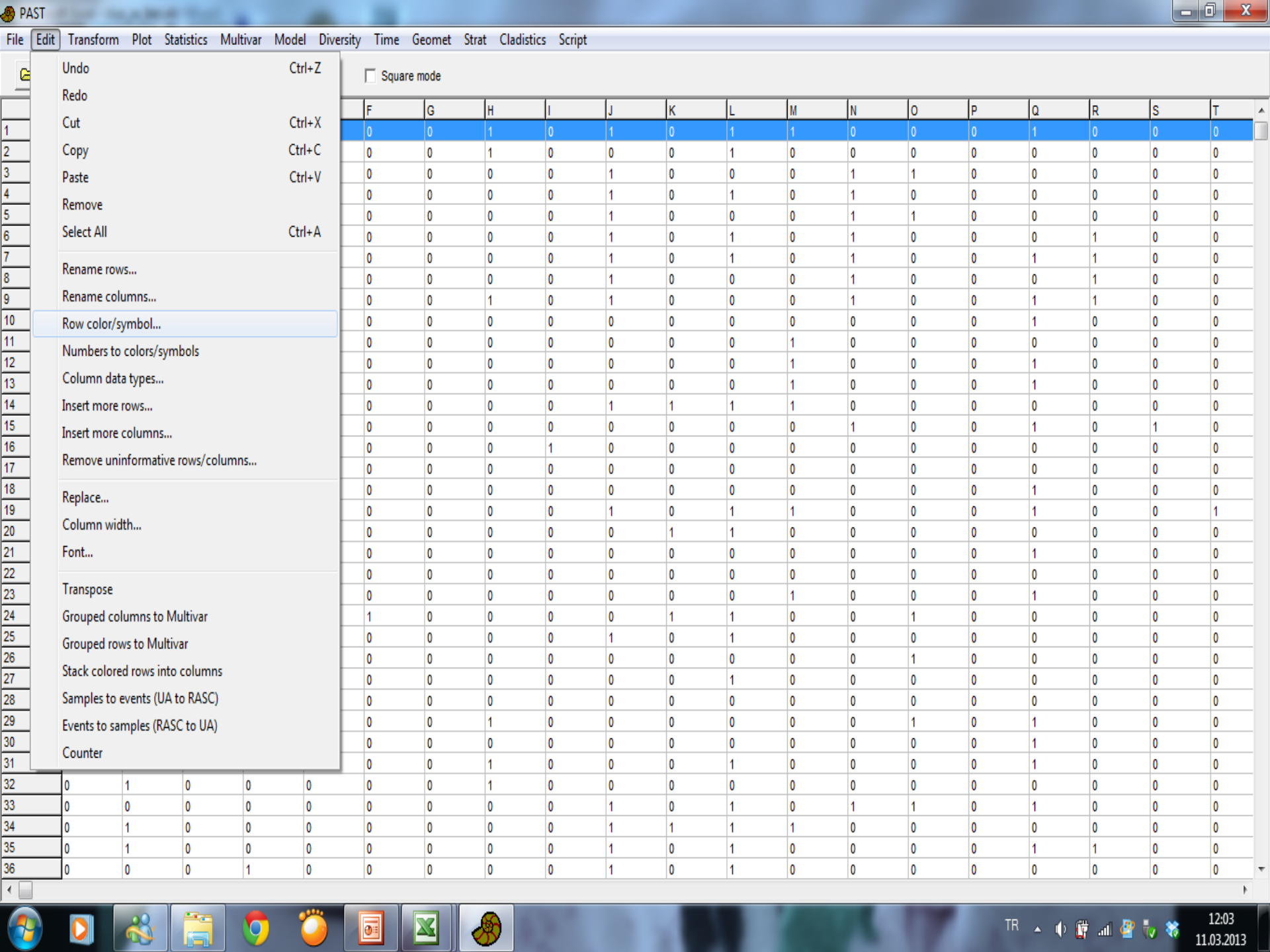


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	0	1	0	0	0	0	0	1	0	1	0	1	1	0	0	0	1	0	0	0
2	0	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
3	0	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0
4	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0
5	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0
6	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	0
7	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	1	0	0
8	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
9	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	1	1	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
14	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0
16	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
19	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0	0	1	0	0	1
20	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
24	0	1	0	1	0	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0
25	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
26	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
27	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
28	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
31	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0
32	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	0	0	0
34	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0
35	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0
36	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0

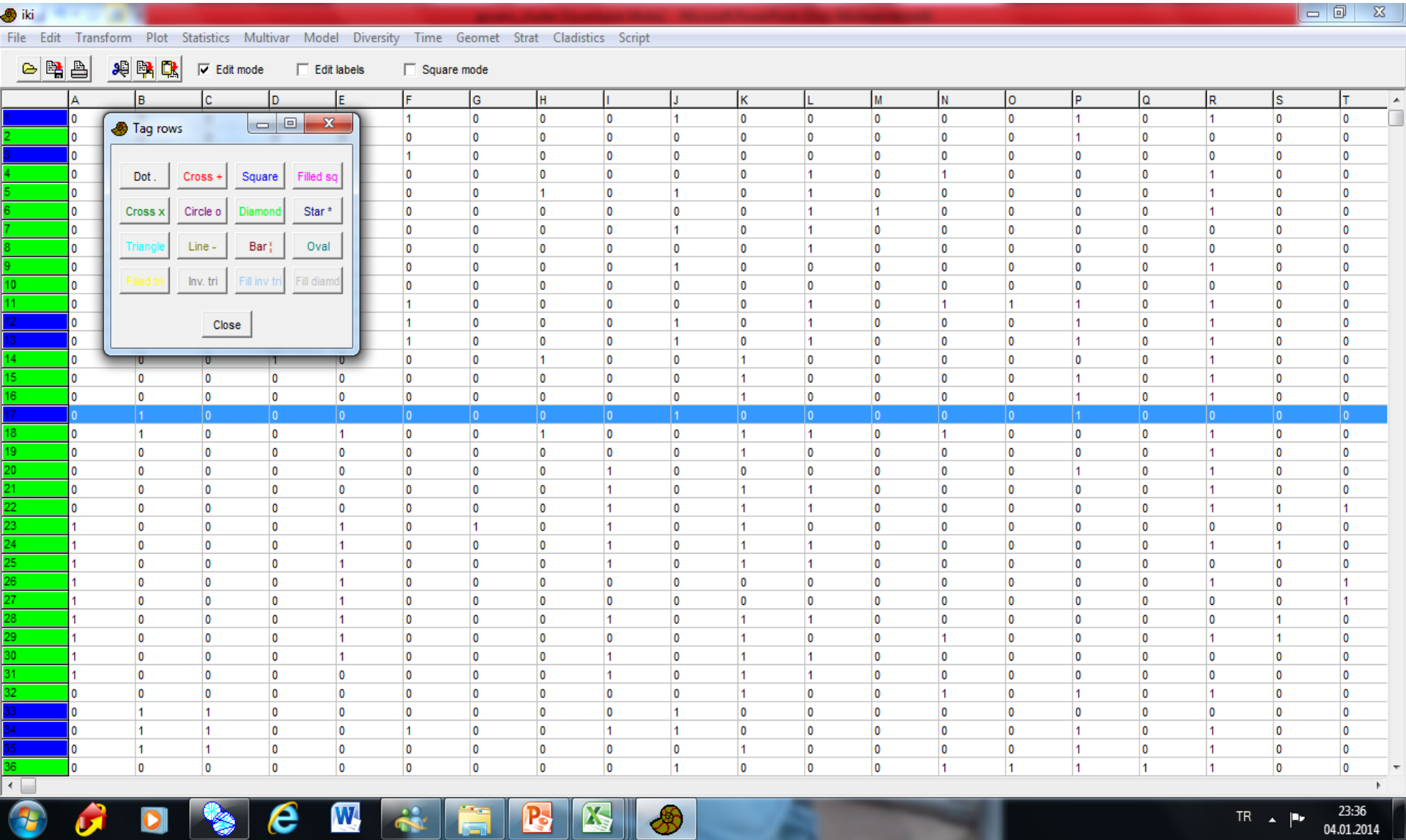


	A	B	C
1	80	ornek	
2	1	sinif	
3		q	
4		Cluster_jw_iki	
5	oa1	1	
6	oa2	2	
7	oa3	1	
8	oa4	2	
9	oa5	2	
10	oa6	2	
11	oa7	2	
12	oa8	2	
13	oa9	2	
14	oa10	2	
15	oa11	2	
16	oa12	1	
17	oa13	1	
18	oa14	2	
19	oa15	2	
20	oa16	2	
21	oa17	1	
22	oa18	2	
23	oa19	2	
24	oa20	2	
25	oa21	2	

Cluster’de Jackard-Ward’s İçin elde edilen 2 li-3’lü ve 4’lü sınıf verileri PAST’ta One-Way-ANOSIM analizi için renklendirilir.


PAST
File
Edit
Transform
Plot
Statistics
Multivar
Model
Diversity
Time
Geomet
Strat
Cladistics
Script
Undo Ctrl+Z
Redo
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Remove
Select All Ctrl+A
Rename rows...
Rename columns...
Row color/symbol...
Numbers to colors/symbols
Column data types...
Insert more rows...
Insert more columns...
Remove uninformative rows/columns...
Replace...
Column width...
Font...
Transpose
Grouped columns to Multivar
Grouped rows to Multivar
Stack colored rows into columns
Samples to events (UA to RASC)
Events to samples (RASC to UA)
Counter
Square mode
F G H I J K L M N O P Q R S T
TR
12:03
11.03.2013

Past üzerinde vejetasyon sınıflarına farklı renk atanması



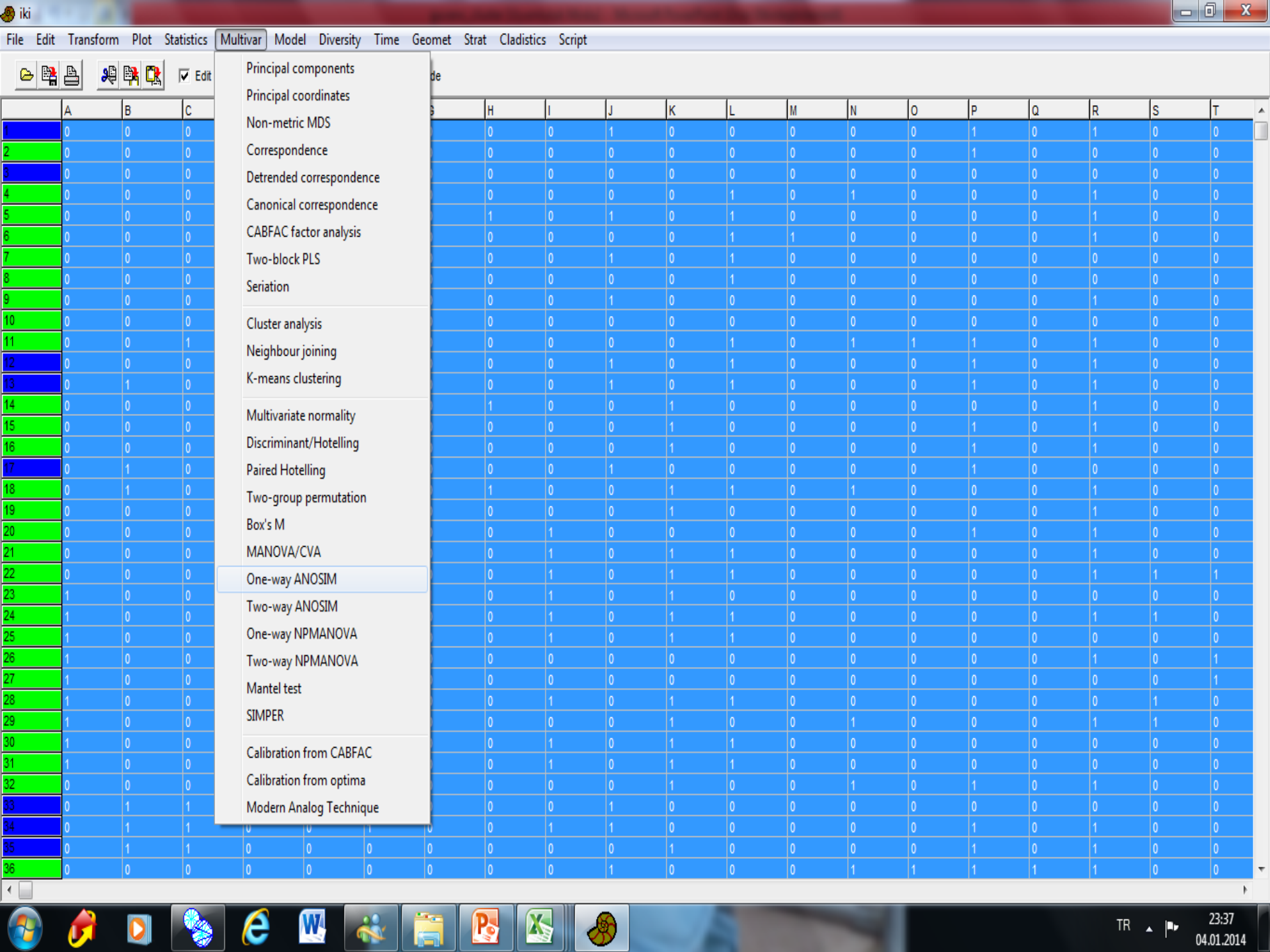
iki

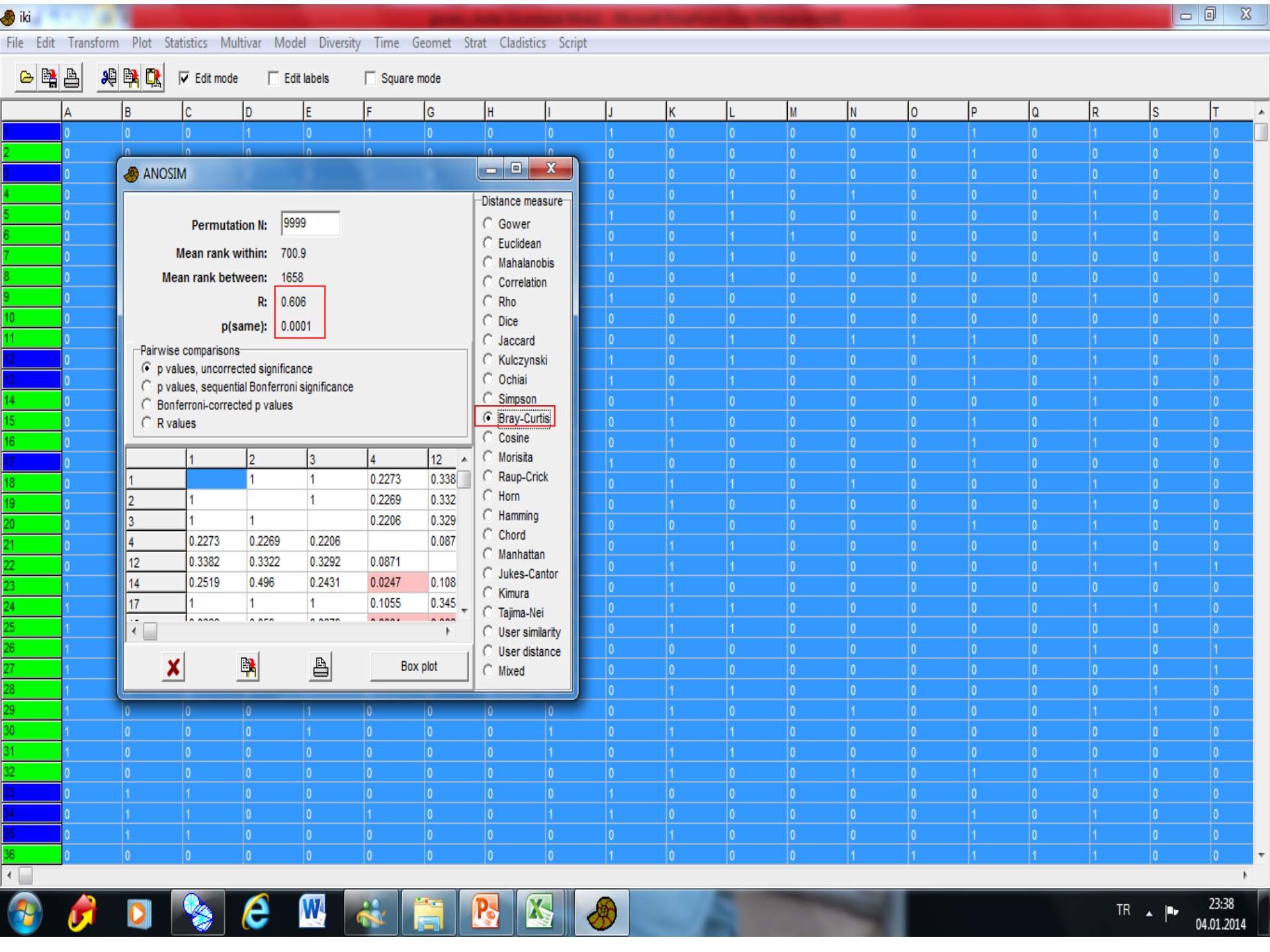
File Edit Transform Plot Statistics Multivar Model Diversity Time Geomet Strat Cladistics Script

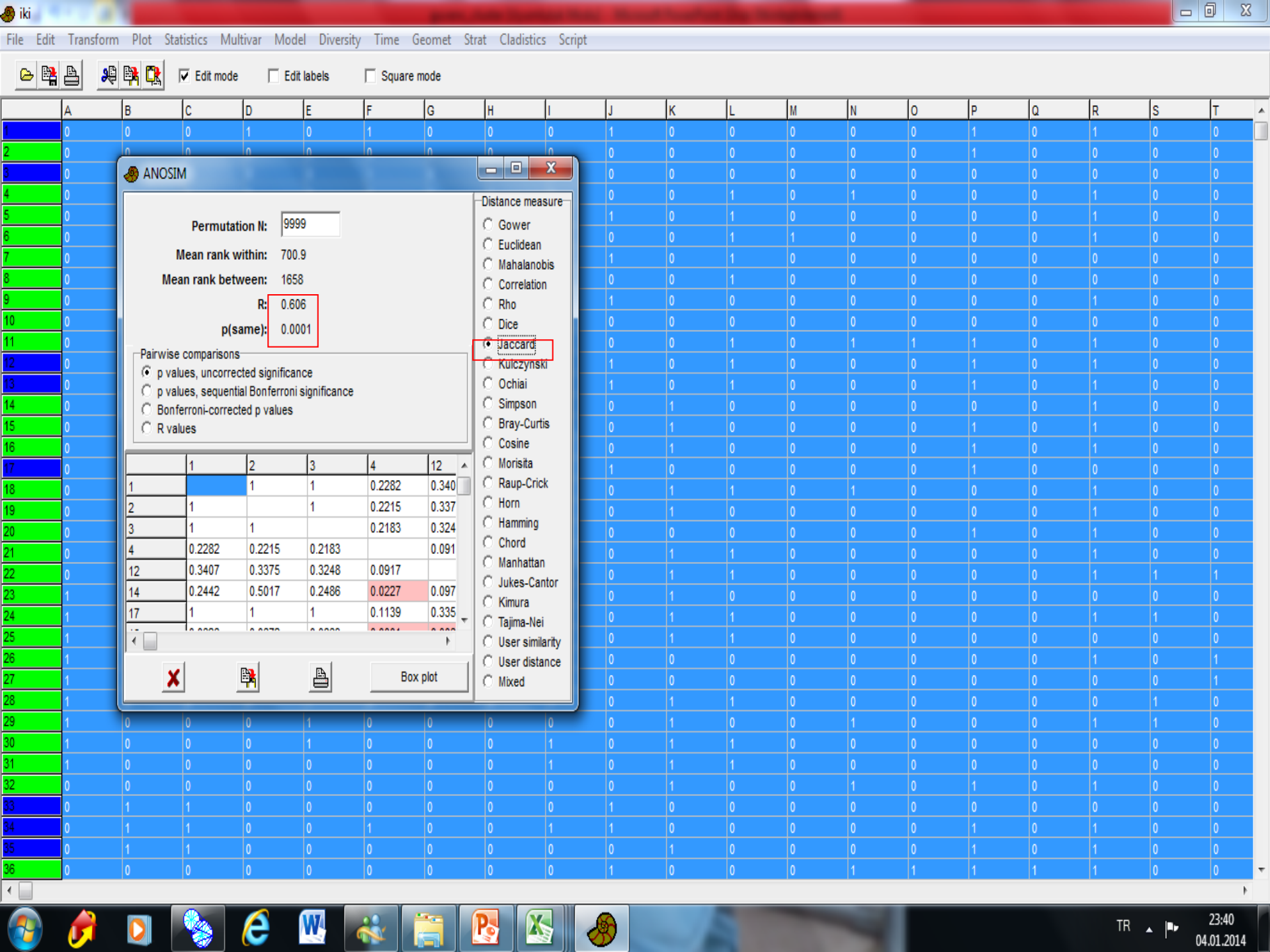
Edit mode | Edit labels | Square mode

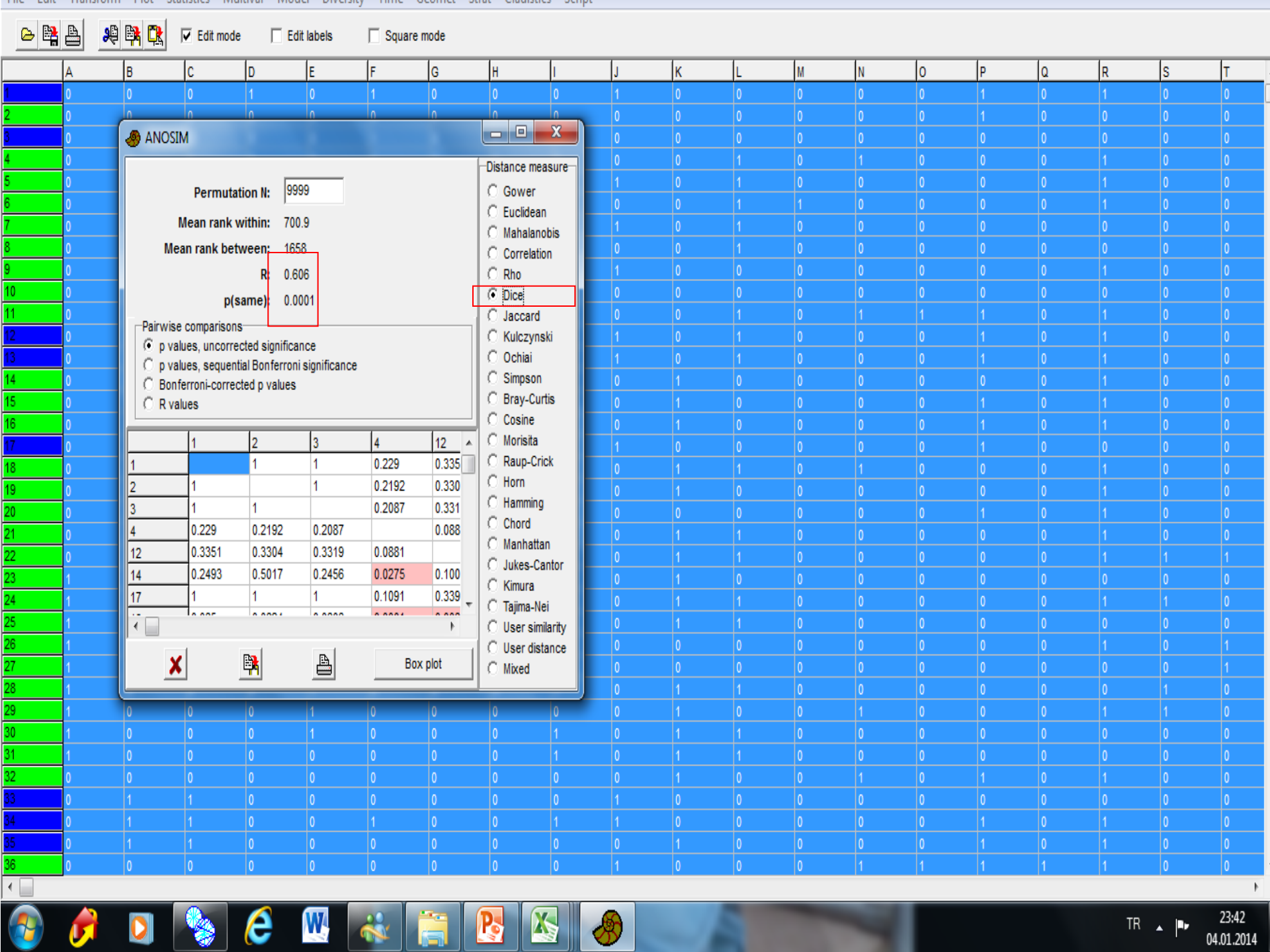
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0
5	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	1	0	0
6	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0
7	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	1	0	0	1	0	0	0	0	0	1	0	1	1	1	0	1	0	0
12	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0
13	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0
14	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0
15	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0
16	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0
17	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
18	0	1	0	0	1	0	0	1	0	0	1	1	0	1	0	0	0	1	0	0
19	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
20	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0
21	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0	0
22	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	1	1
23	1	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0
24	1	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	1	1	0
25	1	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0
26	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
27	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
28	1	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	1	0
29	1	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0
30	1	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0
31	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	0	0
33	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
34	0	1	1	0	0	1	0	0	1	1	0	0	0	0	0	1	0	1	0	0
35	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0
36	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	0

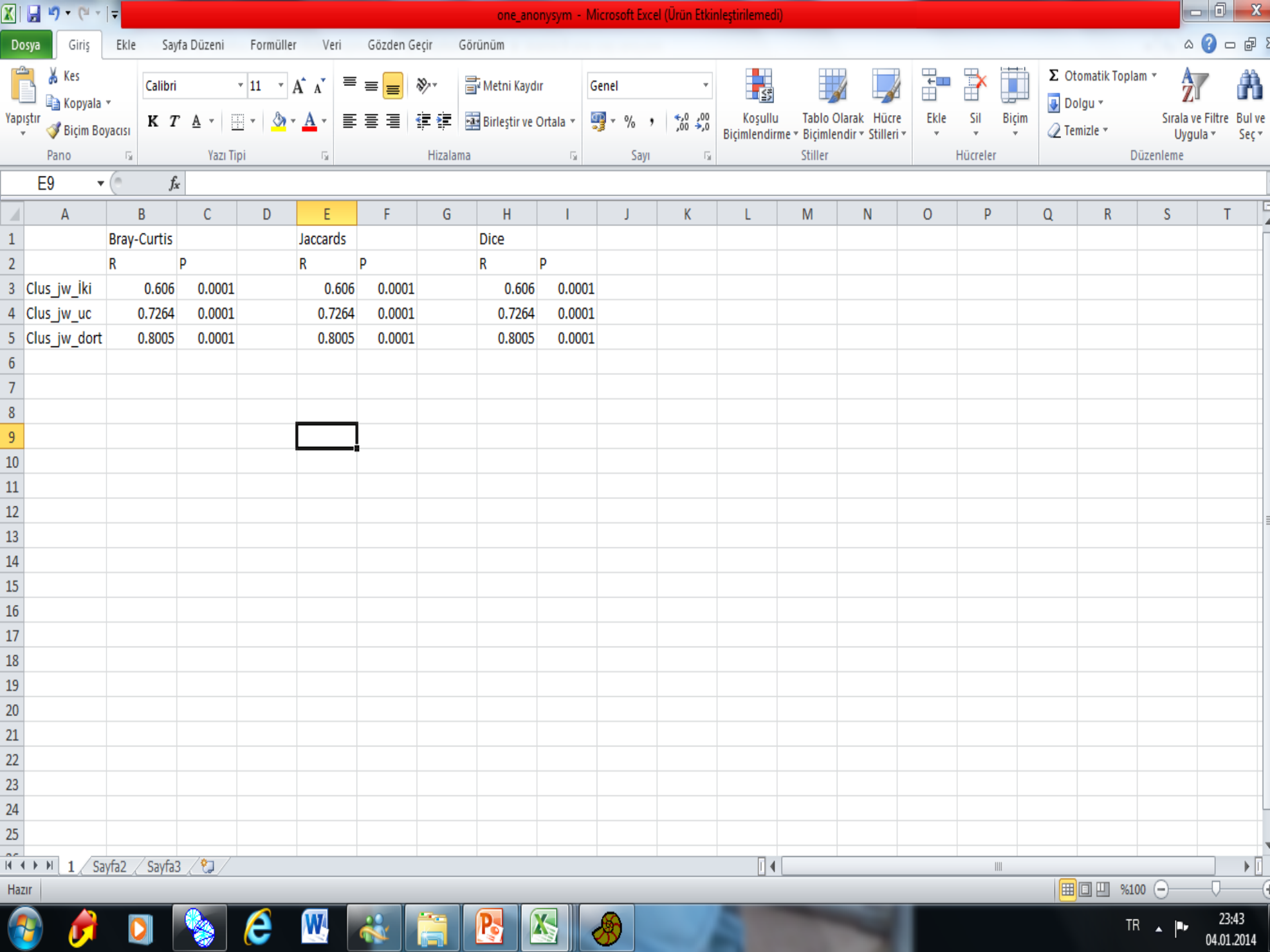
TR 23:36 04.01.2014


iki
File Edit Transform Plot Statistics Multivar Model Diversity Time Geomet Strat Cladistics Script
Edit
Principal components
Principal coordinates
Non-metric MDS
Correspondence
Detrended correspondence
Canonical correspondence
CABFAC factor analysis
Two-block PLS
Seriation
Cluster analysis
Neighbour joining
K-means clustering
Multivariate normality
Discriminant/Hotelling
Paired Hotelling
Two-group permutation
Box's M
MANOVA/CVA
One-way ANOSIM
Two-way ANOSIM
One-way NPMANOVA
Two-way NPMANOVA
Mantel test
SIMPER
Calibration from CABFAC
Calibration from optima
Modern Analog Technique
A B C H I J K L M N O P Q R S T
TR
23:37
04.01.2014


iki
File Edit Transform Plot Statistics Multivar Model Diversity Time Geomet Strat Cladistics Script
Edit mode
Edit labels
Square mode
ANOSIM
Permutation N: 9999
Mean rank within: 700.9
Mean rank between: 1658
R: 0.606
p(same): 0.0001
Pairwise comparisons
p values, uncorrected significance
p values, sequential Bonferroni significance
Bonferroni-corrected p values
R values
Box plot
Distance measure
Gower
Euclidean
Mahalanobis
Correlation
Rho
Dice
Jaccard
Kulczynski
Ochiai
Simpson
Bray-Curtis
Cosine
Morisita
Raup-Crick
Horn
Hamming
Chord
Manhattan
Jukes-Cantor
Kimura
Tajima-Nei
User similarity
User distance
Mixed
TR
23:38
04.01.2014


iki
File Edit Transform Plot Statistics Multivar Model Diversity Time Geomet Strat Cladistics Script
Edit mode
Edit labels
Square mode
ANOSIM
Permutation N: 9999
Mean rank within: 700.9
Mean rank between: 1658
R: 0.606
p(same): 0.0001
Pairwise comparisons
p values, uncorrected significance
p values, sequential Bonferroni significance
Bonferroni-corrected p values
R values
Box plot
Distance measure
Gower
Euclidean
Mahalanobis
Correlation
Rho
Dice
Jaccard
Kulczynski
Ochiai
Simpson
Bray-Curtis
Cosine
Morisita
Raup-Crick
Horn
Hamming
Chord
Manhattan
Jukes-Cantor
Kimura
Tajima-Nei
User similarity
User distance
Mixed
TR
23:40
04.01.2014

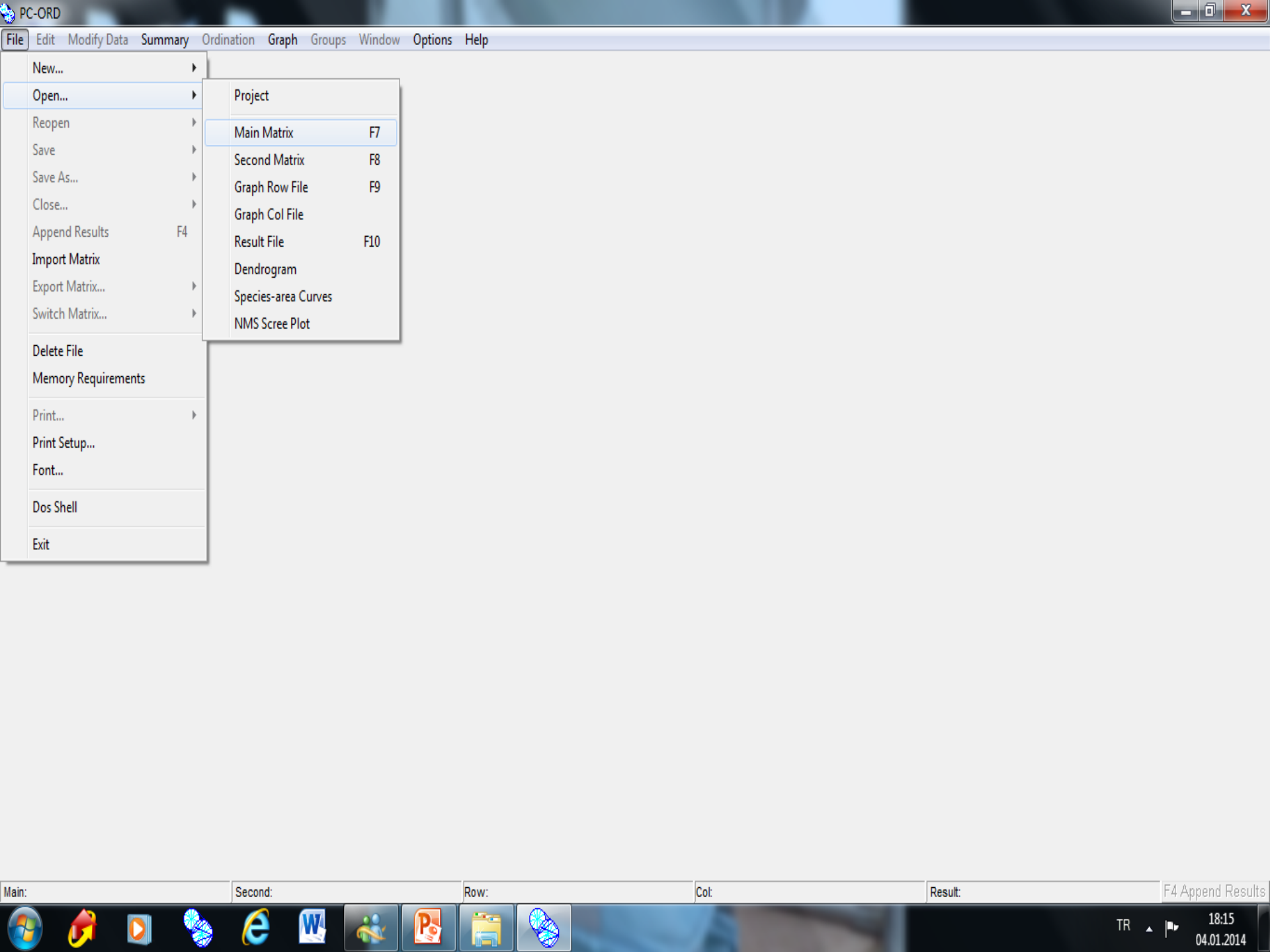

Edit mode
Edit labels
Square mode
ANOSIM
Permutation N:
9999
Mean rank within:
700.9
Mean rank between:
1658
R:
0.606
p(same):
0.0001
Pairwise comparisons
p values, uncorrected significance
p values, sequential Bonferroni significance
Bonferroni-corrected p values
R values
Distance measure
Gower
Euclidean
Mahalanobis
Correlation
Rho
Dice
Jaccard
Kulczynski
Ochiai
Simpson
Bray-Curtis
Cosine
Morisita
Raup-Crick
Horn
Hamming
Chord
Manhattan
Jukes-Cantor
Kimura
Tajima-Nei
User similarity
User distance
Mixed
Box plot
TR
23:42
04.01.2014



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1		Bray-Curtis			Jaccards			Dice												
2		R	P		R	P		R	P											
3	Clus_jw_İki	0.606	0.0001		0.606	0.0001		0.606	0.0001											
4	Clus_jw_uc	0.7264	0.0001		0.7264	0.0001		0.7264	0.0001											
5	Clus_jw_dort	0.8005	0.0001		0.8005	0.0001		0.8005	0.0001											
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				
25																				

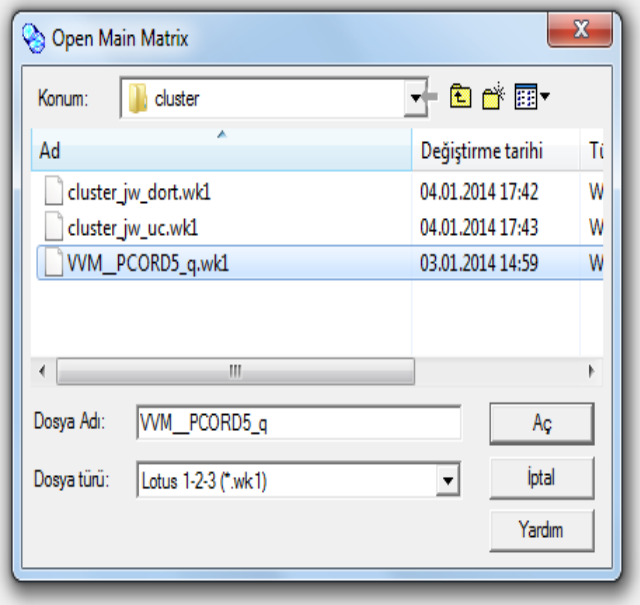
Cluster Analizi Ayrım Gruplarının Gösterge Türlerinin Belirlenmesi

- MRPP analizleri sonucunda en iyi ayrımın Sorensen 3'lü ve 4'lü ayrımları ile sağlandığına karar verilmiştir. Bu nedenle bu ayrımlar için PC-ORD programında İndikatör Testi uygulanmıştır.


PC-ORD
File
Edit
Modify Data
Summary
Ordination
Graph
Groups
Window
Options
Help
New...
Open...
Reopen
Save
Save As...
Close...
Append Results F4
Import Matrix
Export Matrix...
Switch Matrix...
Delete File
Memory Requirements
Print...
Print Setup...
Font...
Dos Shell
Exit
Project
Main Matrix F7
Second Matrix F8
Graph Row File F9
Graph Col File
Result File F10
Dendrogram
Species-area Curves
NMS Scree Plot
Main:
Second:
Row:
Col:
Result:
F4 Append Results
TR
18:15
04.01.2014

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help



Main: | Second: | Row: | Col: | Result: | F4 Append Results

TR 18:16 04.01.2014

PC-ORD

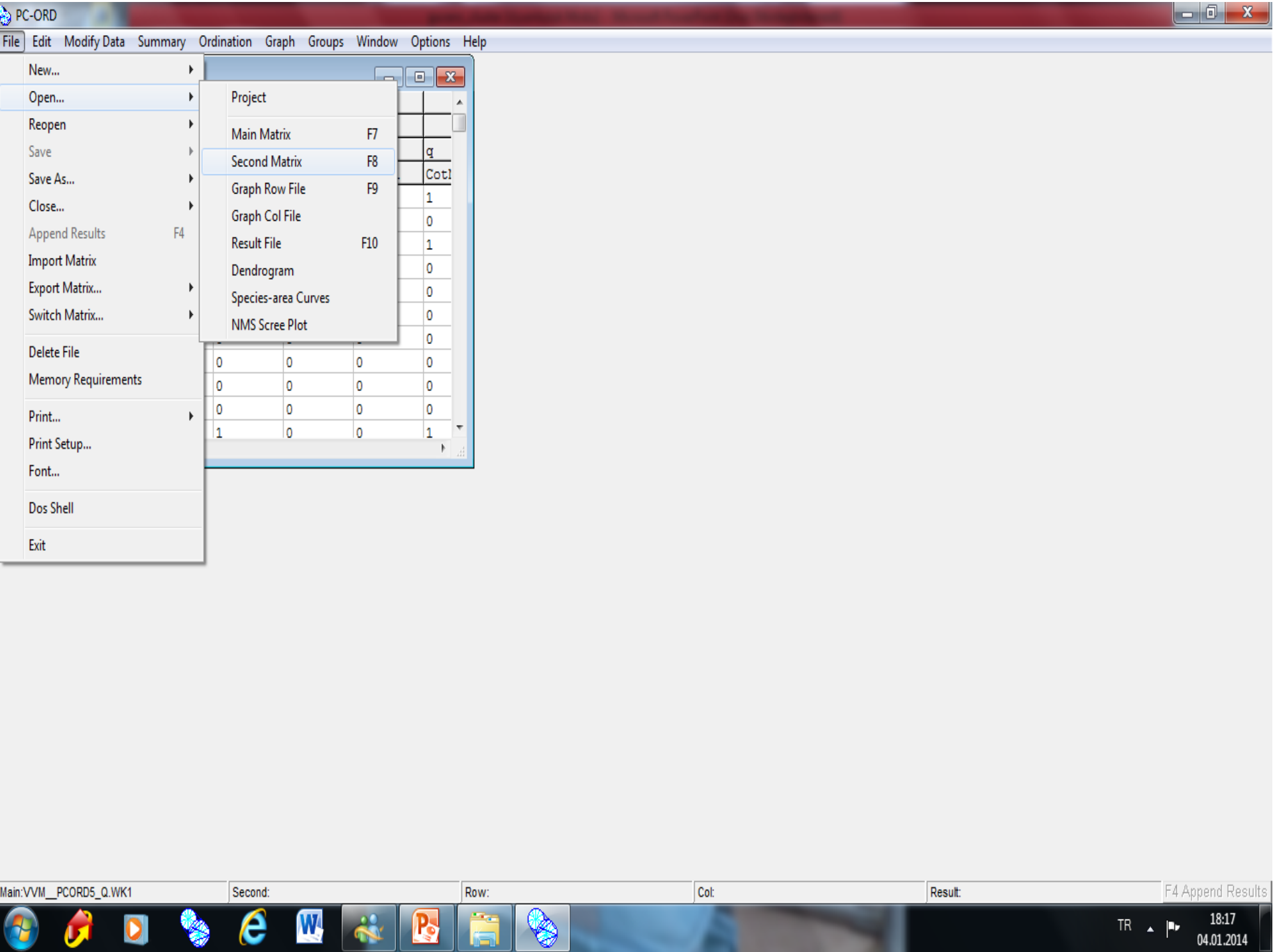
File Edit Modify Data Summary Ordination Graph Groups Window Options Help

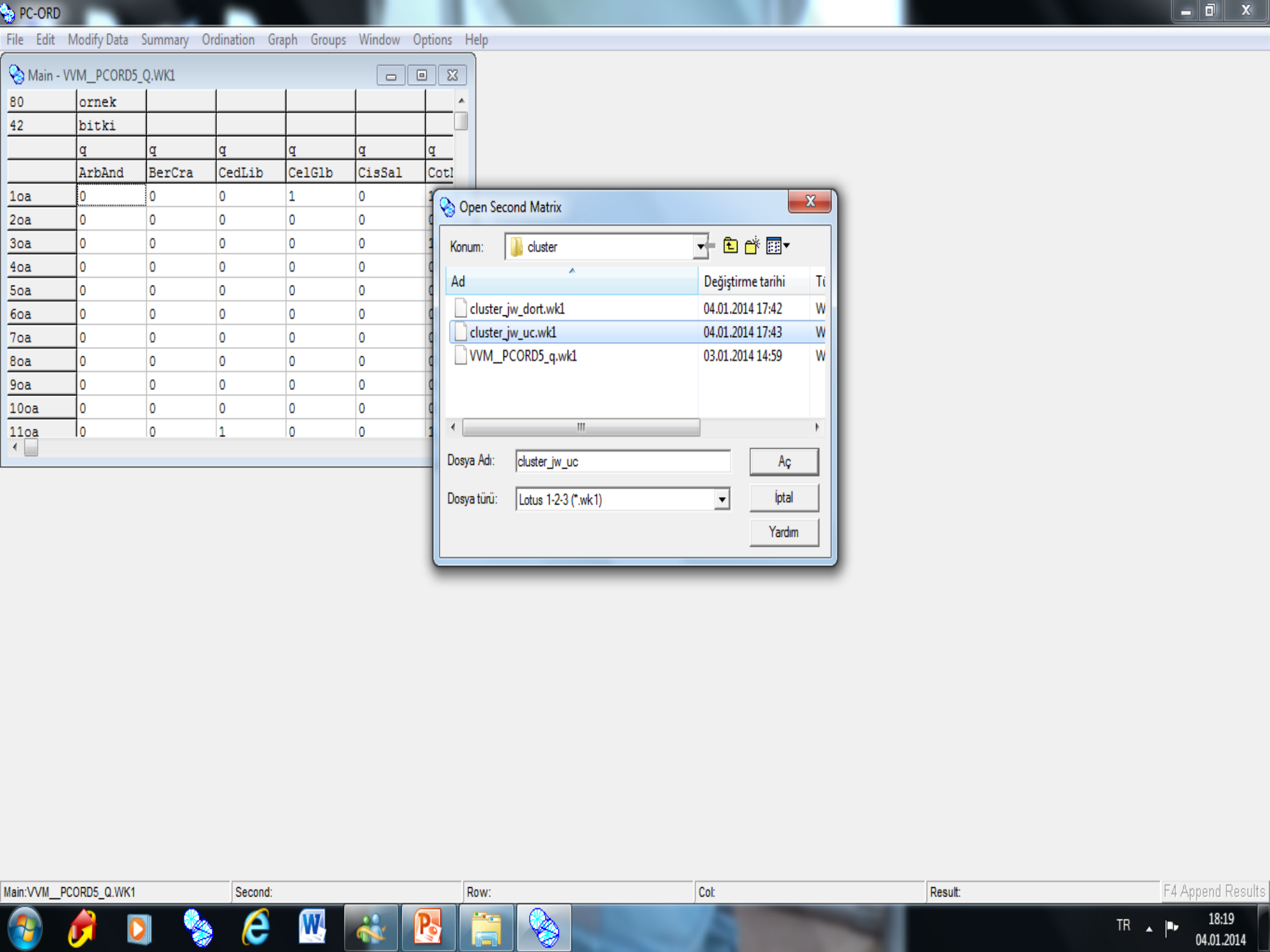
Main - VVM_PCORD5_Q.WK1

80	ornek					
42	bitki					
	q	q	q	q	q	q
	ArbAnd	BerCra	CedLib	CelGlb	CisSal	Cotl
1oa	0	0	0	1	0	1
2oa	0	0	0	0	0	0
3oa	0	0	0	0	0	1
4oa	0	0	0	0	0	0
5oa	0	0	0	0	0	0
6oa	0	0	0	0	0	0
7oa	0	0	0	0	0	0
8oa	0	0	0	0	0	0
9oa	0	0	0	0	0	0
10oa	0	0	0	0	0	0
11oa	0	0	1	0	0	1

Main:VVM_PCORD5_Q.WK1 | Second: | Row: | Col: | Result: | F4 Append Results

TR 18:16 04.01.2014


PC-ORD
File
Edit
Modify Data
Summary
Ordination
Graph
Groups
Window
Options
Help
New...
Open...
Reopen
Save
Save As...
Close...
Append Results F4
Import Matrix
Export Matrix...
Switch Matrix...
Delete File
Memory Requirements
Print...
Print Setup...
Font...
Dos Shell
Exit
Project
Main Matrix F7
Second Matrix F8
Graph Row File F9
Graph Col File
Result File F10
Dendrogram
Species-area Curves
NMS Scree Plot
q
Col
1
0
1
0
0
0
0
0
0
0
0
0
0
0
1
0
0
1
Main:VVM__PCORD5_Q.WK1
Second:
Row:
Col:
Result:
F4 Append Results
TR
18:17
04.01.2014


PC-ORD
File Edit Modify Data Summary Ordination Graph Groups Window Options Help
Main - VVM_PCORD5_Q.WK1
80 ornek
42 bitki
q q q q q q
ArbAnd BerCra CedLib CelGlb CisSal Cotl
1oa 0 0 0 1 0
2oa 0 0 0 0 0
3oa 0 0 0 0 0
4oa 0 0 0 0 0
5oa 0 0 0 0 0
6oa 0 0 0 0 0
7oa 0 0 0 0 0
8oa 0 0 0 0 0
9oa 0 0 0 0 0
10oa 0 0 0 0 0
11oa 0 0 1 0 0
Open Second Matrix
Konum: cluster
Ad
Değiştirme tarihi
cluster_jw_dort.wk1 04.01.2014 17:42
cluster_jw_uc.wk1 04.01.2014 17:43
VVM_PCORD5_q.wk1 03.01.2014 14:59
Dosya Adı: cluster_jw_uc
Aç
Dosya türü: Lotus 1-2-3 (*.wk1)
İptal
Yardım
Main:VVM_PCORD5_Q.WK1
Second:
Row:
Col:
Result:
F4 Append Results
TR
18:19
04.01.2014

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help

Cluster Analysis
MRPP
Blocked MRPP (MRBP)
TWINSPAN
Indicator Species Analysis
Mantel Test

Main - VVM_PCORD5_Q.WK1

80	ornek					
42	bitki					
	q	q	q	q		
	ArbAnd	BerCra	CedLib	Ce		
1oa	0	0	0	1		
2oa	0	0	0	0		
3oa	0	0	0	0	0	1
4oa	0	0	0	0	0	0
5oa	0	0	0	0	0	0
6oa	0	0	0	0	0	0
7oa	0	0	0	0	0	0
8oa	0	0	0	0	0	0
9oa	0	0	0	0	0	0
10oa	0	0	0	0	0	0
11oa	0	0	1	0	0	1

Second - CLUSTER_JW_UC.WK1

80	ornek
1	sinif
	c
	Cluster
oa1	1
oa2	2
oa3	1
oa4	2
oa5	2
oa6	2
oa7	2
oa8	2
oa9	2
oa10	2
oa11	2
oa12	1

Main:VVM_PCORD5_Q.WK1 | Second:CLUSTER_JW_UC.WK1 | Row: | Col: | Result: | F4 Append Results

TR 18:19 04.01.2014

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help

Main - VVM_PCORD5_Q.WK1

80	ornek					
42	bitki					
	q	q	q	q	q	q
	ArbAnd	BerCra	CedLib	CelGlb	CisSal	Cotl
1oa	0	0	0	1	0	1
2oa	0	0	0	0	0	0
3oa	0	0	0	0	0	1
4oa	0	0	0	0	0	0
5oa	0	0	0	0	0	
6oa	0	0	0	0	0	
7oa	0	0	0	0	0	
8oa	0	0	0	0	0	
9oa	0	0	0	0	0	
10oa	0	0	0	0	0	
11oa	0	0	1	0	0	

Second - CLUSTER_JW_UC.WK1

80	ornek
1	sinif
	c
	Cluster
oa1	1
oa2	2
oa3	1
oa4	2
oa5	2
oa6	2
oa7	2
oa8	2
oa9	2
oa10	2
oa11	2
oa12	1

Indicator Species Analysis Grouping Matrix

Define Classes From

- Main Matrix
- Secondary Matrix

OK Cancel Help

Main:VVM_PCORD5_Q.WK1 | Second:CLUSTER_JW_UC.WK1 | Row: | Col: | Result: | F4 Append Results

TR 18:20 04.01.2014

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help

Main - VVM_PCORD5_Q.WK1

80	ornek					
42	bitki					
	q	q	q	q	q	q
	ArbAnd	BerCra	CedLib	CelGlb	CisSal	Cotl
1oa	0	0	0	1	0	1
2oa	0	0	0	0	0	0
3oa	0	0	0	0	0	1
4oa	0	0	0	0	0	0
5oa	0	0	0	0	0	
6oa	0	0	0	0	0	
7oa	0	0	0	0	0	
8oa	0	0	0	0	0	
9oa	0	0	0	0	0	
10oa	0	0	0	0	0	
11oa	0	0	1	0	0	

Second - CLUSTER_JW_UC.WK1

80	ornek
1	sinif
	c
	Cluster
oa1	1
oa2	2
oa3	1
oa4	2
oa5	2
oa6	2
oa7	2
oa8	2
oa9	2
oa10	2
oa11	2
oa12	1

Indicator Species Analysis Grouping Variable

sinif

Select ONE

GROUPING variable

from Second Matrix

Cluster_jw_uc

OK Cancel Help

Main:VVM_PCORD5_Q.WK1 | Second:CLUSTER_JW_UC.WK1 | Row: | Col: | Result: | F4 Append Results

TR 18:21 04.01.2014

PC-ORD

File Edit Modify Data Summary Ordination Graph Groups Window Options Help

Main - VVM_PCORD5_Q.WK1

80	ornek						
42							
1oa							
2oa							
3oa							
4oa							
5oa							
6oa							
7oa							
8oa							
9oa							
10oa							
11oa							

Result - RESULT.TXT

```
****************************** Indicator Values ******************************
PC-ORD, Version 4.14
 4 Jan 2014, 18:21

Indicator values calculated with method of Dufrene, M. &
P. Legendre.  1997.  Species assemblages and indicator
species: the need for a flexible asymmetrical approach.
Ecological Monographs 67:345-366.




       Groups were defined by values of: Cluster_
       Input data has:    80 ornek    by    42 bitki


RELATIVE ABUNDANCE in group, % of perfect indication
(average abundance of a given bitki    in a given group of ornek
over the average abundance of that bitki    in all ornek
expressed as a %)
                              Group
                  Sequence:    1    2    3
                Identifier:    1    2    3
            Number of items:   20   39   21
```

Sec

80	
1	
oa1	
oa2	
oa3	
oa4	
oa5	2
oa6	2
oa7	2
oa8	2
oa9	2
oa10	2
oa11	2
oa12	1

Main:VVM_PCORD5_Q.WK1 | Second:CLUSTER_JW_UC.WK1 | Row: | Col: | Result: | F4 Append Results

TR 18:21 04.01.2014

PC-ORD - [Result - RESULT.TXT]

File Edit Modify Data Summary Ordination Graph Groups Window Options Help

	Column	Maxgrp	Observed Indicator Value (IV)	IV from randomized groups Mean	S.Dev	p *
1	ArbAnd	3	95.2	14.4	3.99	0.0010
2	BerCra	1	61.1	13.6	4.33	0.0010
3	CedLib	1	33.5	9.9	3.62	0.0010
4	CelGlb	1	5.7	6.6	3.21	0.4540
5	CisSal	3	61.9	12.3	3.73	0.0010
6	CotNum	1	43.3	10.9	3.73	0.0010
7	CotCog	3	42.9	8.7	3.54	0.0010
8	CraOri	2	9.3	10.8	3.84	0.6160
9	CraMon	3	22.9	10.3	3.66	0.0160
10	DapOle	1	32.1	15.3	4.30	0.0070
11	DapSer	3	25.4	21.5	4.18	0.1750
12	FonPhl	3	33.9	19.3	4.02	0.0040
13	FrxOrn	3	5.3	6.4	3.04	0.5210
14	JasFru	2	35.8	13.9	3.85	0.0020
15	JunCom	1	14.4	7.6	3.51	0.0440
16	JunExc	1	28.5	15.5	3.88	0.0070
17	JunFoe	1	11.2	6.4	3.07	0.0790
18	JunOxy	2	28.8	26.9	3.82	0.2820
19	MryCom	3	40.4	9.3	3.80	0.0010
20	NerOle	3	26.2	7.5	3.43	0.0020
21	OleOle	3	28.9	9.0	3.62	0.0010
22	PalSpi	3	19.7	12.5	3.99	0.0510
23	PhlArm	1	25.0	6.5	3.15	0.0030
24	PhlGra	2	36.1	20.0	3.93	0.0040
25	PhyLat	3	72.1	18.3	4.33	0.0010
26	PinBru	3	73.6	21.2	4.14	0.0010
27	PinNig	1	20.4	15.8	4.16	0.1360
28	PisTer	3	73.8	17.8	4.14	0.0010
29	PlaOri	3	19.7	10.1	4.06	0.0340
30	PruDiv	1	32.2	12.3	3.98	0.0040
31	QueCer	2	6.8	9.4	3.78	0.6240
32	QueCoc	2	48.3	27.2	3.73	0.0010
33	QueIlx	3	23.8	6.4	3.02	0.0010
34	QueInf	3	8.4	6.5	3.27	0.2450

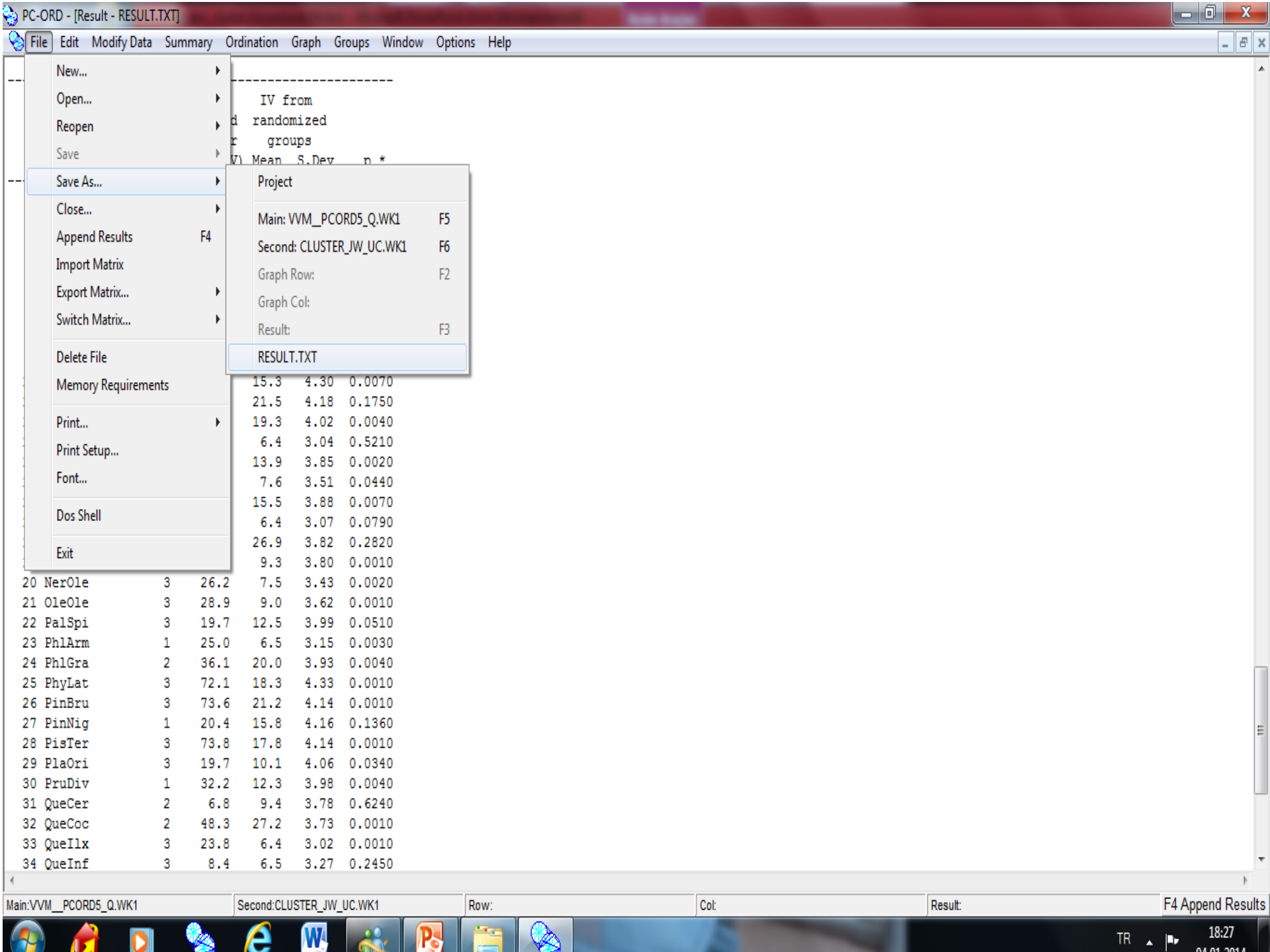
Önem seviyesi

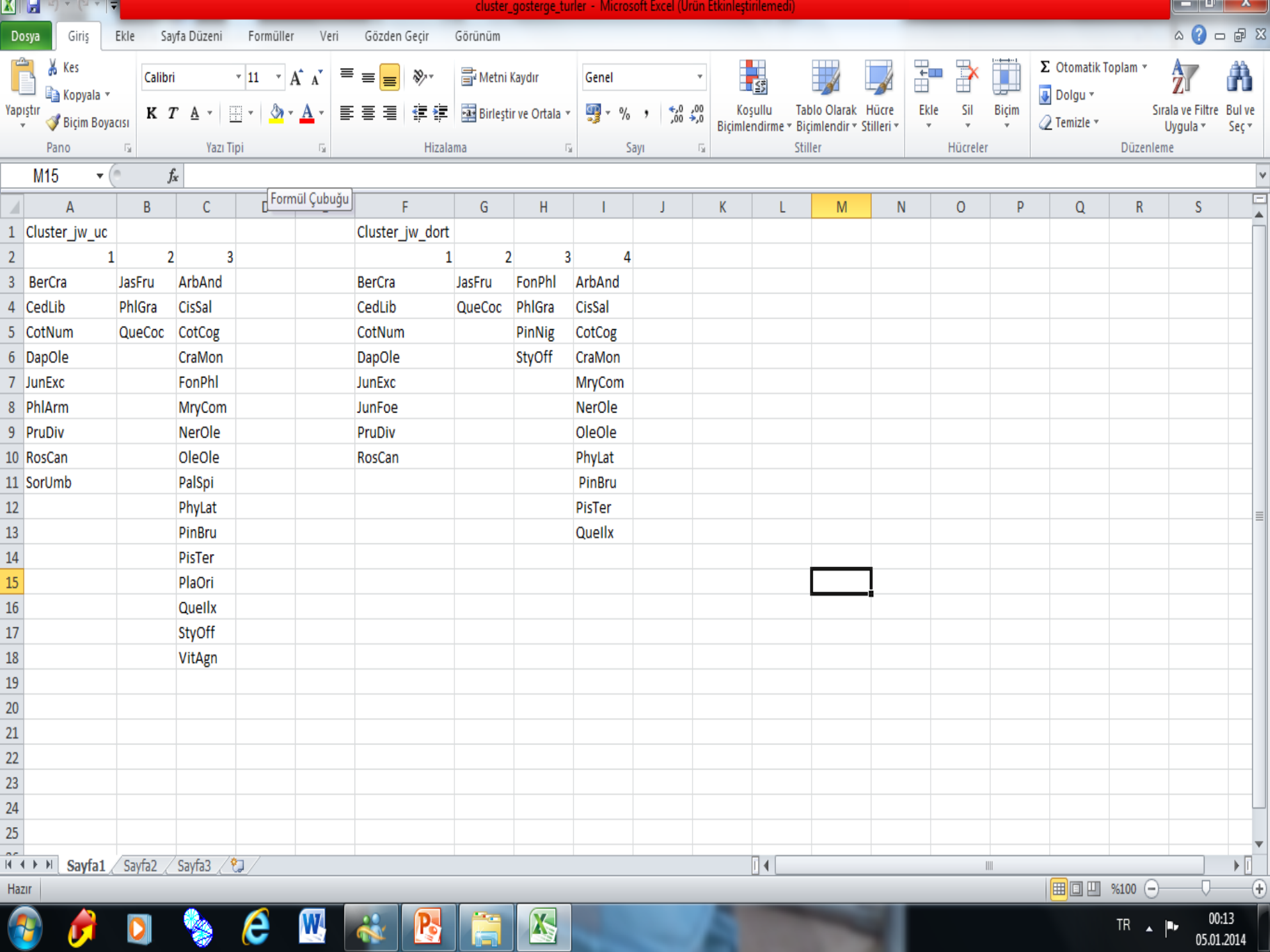
Grup Kodu

Önem seviyeleri 0,05 den küçük olan türler, ait oldukları grupların pozitif gösterge türleri olarak ayrılmaktadır. Örneğin burada ArbAnd Türü 0,0010 önem seviyesi ile 3. grubun gösterge türüdür.

Main:VVM__PCORD5_Q.WK1 | Second:CLUSTER_JW_UC.WK1 | Row: | Col: | Result: | F4 Append Results

TR 18:22 04.01.2014


PC-ORD - [Result - RESULT.TXT]
File Edit Modify Data Summary Ordination Graph Groups Window Options Help
New...
Open...
Reopen
Save
Save As...
Close...
Append Results F4
Import Matrix
Export Matrix...
Switch Matrix...
Delete File
Memory Requirements
Print...
Print Setup...
Font...
Dos Shell
Exit
Project
Main: VVM_PCORD5_Q.WK1 F5
Second: CLUSTER_JW_UC.WK1 F6
Graph Row: F2
Graph Col:
Result: F3
RESULT.TXT
IV from
randomized
groups
Mean S.Dev p *
15.3 4.30 0.0070
21.5 4.18 0.1750
19.3 4.02 0.0040
6.4 3.04 0.5210
13.9 3.85 0.0020
7.6 3.51 0.0440
15.5 3.88 0.0070
6.4 3.07 0.0790
26.9 3.82 0.2820
9.3 3.80 0.0010
20 NerOle 3 26.2 7.5 3.43 0.0020
21 OleOle 3 28.9 9.0 3.62 0.0010
22 PalSpi 3 19.7 12.5 3.99 0.0510
23 PhlArm 1 25.0 6.5 3.15 0.0030
24 PhlGra 2 36.1 20.0 3.93 0.0040
25 PhyLat 3 72.1 18.3 4.33 0.0010
26 PinBru 3 73.6 21.2 4.14 0.0010
27 PinNig 1 20.4 15.8 4.16 0.1360
28 PisTer 3 73.8 17.8 4.14 0.0010
29 PlaOri 3 19.7 10.1 4.06 0.0340
30 PruDiv 1 32.2 12.3 3.98 0.0040
31 QueCer 2 6.8 9.4 3.78 0.6240
32 QueCoc 2 48.3 27.2 3.73 0.0010
33 QueIlx 3 23.8 6.4 3.02 0.0010
34 QueInf 3 8.4 6.5 3.27 0.2450
Main:VVM__PCORD5_Q.WK1
Second:CLUSTER_JW_UC.WK1
Row:
Col:
Result:
F4 Append Results
TR
18:27



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Cluster_jw_uc					Cluster_jw_dort													
2	1	2	3			1	2	3	4										
3	BerCra	JasFru	ArbAnd			BerCra	JasFru	FonPhl	ArbAnd										
4	CedLib	PhlGra	CisSal			CedLib	QueCoc	PhlGra	CisSal										
5	CotNum	QueCoc	CotCog			CotNum		PinNig	CotCog										
6	DapOle		CraMon			DapOle		StyOff	CraMon										
7	JunExc		FonPhl			JunExc			MryCom										
8	PhlArm		MryCom			JunFoe			NerOle										
9	PruDiv		NerOle			PruDiv			OleOle										
10	RosCan		OleOle			RosCan			PhyLat										
11	SorUmb		PalSpi						PinBru										
12			PhyLat						PisTer										
13			PinBru						QueIlx										
14			PisTer																
15			PlaOri																
16			QueIlx																
17			StyOff																
18			VitAgn																
19																			
20																			
21																			
22																			
23																			
24																			
25																			

TEŞEKKÜRLER