Hasil Pengolahan *Correspondence Analysis*

Langkah-langkah pengolahan data metode *Correspondence Analysis* (CA) dengan menggunakan program SPSS adalah sebagai berikut :

❖ Input data mentah hasil penelitian yang telah dilakukan

Dimana yang menjadi input data pada penelitian ini adalah sebagai berikut :

Input Data SPSS Metode CA

No	lianhoa	enamsatu	karuhun
1	220	204	236
2	247	197	216
3	238	181	241
4	203	278	179
5	235	272	153
6	279	238	143
7	207	203	250
8	202	247	211
9	276	259	125
10	259	257	144
11	284	231	145
12	216	157	287
13	224	216	220
14	208	134	318
15	220	226	214
16	223	211	226
17	178	220	262
18	231	171	258
19	217	215	228
20	278	215	167
21	215	241	204

❖ Menuliskan perintah *Syntax*

Dimana perintah *Syntax* yang digunakan pada penelitian ini adalah sebagai berikut :

```
ANACOR
TABLE=ALL(21,3)
/DIMENSION=2
/NORMALIZATION CANONICAL
/PRINT TABLE SCORES CONTRIBUTIONS PROFILES PERMUTATION
/VARIANCES ROWS COLUMNS SINGULAR
/PLOT ROWS COLUMNS JOINT NDIM(ALL,MAX).
```

❖ Menjalankan eksekusi *Syntax*

Eksekusi *Syntax* dilakukan dengan membuka menu *Run*, kemudian klik pilihan *All*.

Setelah dilakukan eksekusi *Syntax*, maka SPSS akan memproses data dan menghasilkan *output* sebagai berikut :

```
                A N A C O R - VERSION 0.4
                          BY
                DEPARTMENT OF DATA THEORY
            UNIVERSITY OF LEIDEN, THE NETHERLANDS

The table to be analyzed:

                    1        2        3
                LIANHOA ENAMSATU  KARUHUN   Margin

   1                220      204      236      660
   2                247      197      216      660
   3                238      181      241      660
   4                203      278      179      660
   5                235      272      153      660
   6                279      238      143      660
   7                207      203      250      660
   8                202      247      211      660
   9                276      259      125      660
  10                259      257      144      660
  11                284      231      145      660
  12                216      157      287      660
  13                224      216      220      660
  14                208      134      318      660
  15                220      226      214      660
  16                223      211      226      660
  17                178      220      262      660
  18                231      171      258      660
  19                217      215      228      660
  20                278      215      167      660
  21                215      241      204      660
              -------- -------- -------- --------
     Margin       4860     4573     4427    13860

   The Rowprofiles:

                    1        2        3
                LIANHOA ENAMSATU  KARUHUN   Margin

   1                .333     .309     .358    1.000
   2                .374     .298     .327    1.000
   3                .361     .274     .365    1.000
   4                .308     .421     .271    1.000
   5                .356     .412     .232    1.000
```

6	.423	.361	.217	1.000
7	.314	.308	.379	1.000
8	.306	.374	.320	1.000
9	.418	.392	.189	1.000
10	.392	.389	.218	1.000
11	.430	.350	.220	1.000
12	.327	.238	.435	1.000
13	.339	.327	.333	1.000
14	.315	.203	.482	1.000
15	.333	.342	.324	1.000
16	.338	.320	.342	1.000
17	.270	.333	.397	1.000
18	.350	.259	.391	1.000
19	.329	.326	.345	1.000
20	.421	.326	.253	1.000
21	.326	.365	.309	1.000
Margin	.351	.330	.319	

The Columnprofiles:

	1 LIANHOA	2 ENAMSATU	3 KARUHUN	Margin
1	.045	.045	.053	.048
2	.051	.043	.049	.048
3	.049	.040	.054	.048
4	.042	.061	.040	.048
5	.048	.059	.035	.048
6	.057	.052	.032	.048
7	.043	.044	.056	.048
8	.042	.054	.048	.048
9	.057	.057	.028	.048
10	.053	.056	.033	.048
11	.058	.051	.033	.048
12	.044	.034	.065	.048
13	.046	.047	.050	.048
14	.043	.029	.072	.048
15	.045	.049	.048	.048
16	.046	.046	.051	.048
17	.037	.048	.059	.048
18	.048	.037	.058	.048
19	.045	.047	.052	.048
20	.057	.047	.038	.048
21	.044	.053	.046	.048
Margin	1.000	1.000	1.000	

Dimension	Singular Value	Inertia	Proportion Explained	Cumulative Proportion
1	.16473	.02713	.838	.838
2	.07240	.00524	.162	1.000
Total		.03238	1.000	1.000

Row Scores:

Row	Marginal Profile	Dim 1	2
1	.048	-.201	.025
2	.048	-.066	-.237
3	.048	-.269	-.243
4	.048	.314	.546
5	.048	.494	.247
6	.048	.519	-.295
7	.048	-.304	.129
8	.048	.039	.396
9	.048	.679	-.163
10	.048	.538	-.031
11	.048	.495	-.373
12	.048	-.636	-.181
13	.048	-.069	.053
14	.048	-.892	-.232
15	.048	-.012	.138
16	.048	-.119	.036
17	.048	-.368	.459
18	.048	-.406	-.235
19	.048	-.128	.107
20	.048	.314	-.405
21	.048	.081	.257

Contribution of row points to the inertia of each dimension:

Row	Marginal Profile	Dim 1	2
1	.048	.012	.000
2	.048	.001	.037
3	.048	.021	.039
4	.048	.028	.196
5	.048	.070	.040
6	.048	.078	.057
7	.048	.027	.011
8	.048	.000	.103
9	.048	.133	.017
10	.048	.084	.001
11	.048	.071	.092
12	.048	.117	.022
13	.048	.001	.002
14	.048	.230	.035
15	.048	.000	.013
16	.048	.004	.001
17	.048	.039	.139
18	.048	.048	.036
19	.048	.005	.008
20	.048	.028	.108
21	.048	.002	.043
		1.000	1.000

Contribution of dimensions to the inertia of each row point:

Row	Marginal Profile	Dim 1	Dim 2	Total
1	.048	.993	.007	1.000
2	.048	.151	.849	1.000
3	.048	.737	.263	1.000
4	.048	.428	.572	1.000
5	.048	.901	.099	1.000
6	.048	.875	.125	1.000
7	.048	.926	.074	1.000
8	.048	.022	.978	1.000
9	.048	.975	.025	1.000
10	.048	.999	.001	1.000
11	.048	.800	.200	1.000
12	.048	.966	.034	1.000
13	.048	.792	.208	1.000
14	.048	.971	.029	1.000
15	.048	.016	.984	1.000
16	.048	.961	.039	1.000
17	.048	.593	.407	1.000
18	.048	.871	.129	1.000
19	.048	.766	.234	1.000
20	.048	.577	.423	1.000
21	.048	.186	.814	1.000

Column Scores:

Column		Marginal Profile	Dim 1	Dim 2
1	LIANHOA	.351	.202	-.341
2	ENAMSATU	.330	.352	.304
3	KARUHUN	.319	-.586	.060

Contribution of column points to the inertia of each dimension:

Column		Marginal Profile	Dim 1	Dim 2
1	LIANHOA	.351	.087	.562
2	ENAMSATU	.330	.248	.422
3	KARUHUN	.319	.665	.016
			1.000	1.000

Contribution of dimensions to the inertia of each column point:

Column		Marginal Profile	Dim 1	Dim 2	Total
1	LIANHOA	.351	.444	.556	1.000
2	ENAMSATU	.330	.753	.247	1.000
3	KARUHUN	.319	.995	.005	1.000

Variances and Correlation Matrix of the singular values:

Dim	Variances	Correlations between dimensions	
1	6.791E-05	1.000	
2	7.235E-05	-.022	1.000

Variances and Correlation Matrix of scores of Row 1

Dim	Variances	Correlations between dimensions	
1	4.553E-05	1.000	
2	8.932E-05	.362	1.000

Variances and Correlation Matrix of scores of Row 2

Dim	Variances	Correlations between dimensions	
1	6.019E-04	1.000	
2	2.061E-04	-.197	1.000

Variances and Correlation Matrix of scores of Row 3

Dim	Variances	Correlations between dimensions	
1	6.853E-04	1.000	
2	3.522E-04	-.613	1.000

Variances and Correlation Matrix of scores of Row 4

Dim	Variances	Correlations between dimensions	
1	.003	1.000	
2	.001	-.391	1.000

Variances and Correlation Matrix of scores of Row 5

Dim	Variances	Correlations between dimensions	
1	8.459E-04	1.000	
2	7.043E-04	-.746	1.000

Variances and Correlation Matrix of scores of Row 6

Dim	Variances	Correlations between dimensions	
1	.001	1.000	
2	8.532E-04	.735	1.000

Variances and Correlation Matrix of scores of Row 7

Dim	Variances	Correlations between dimensions	
1	2.497E-04	1.000	
2	2.509E-04	.720	1.000

Variances and Correlation Matrix of scores of Row 8

Dim	Variances	Correlations between dimensions	
1	.002	1.000	
2	5.510E-04	-.069	1.000

Variances and Correlation Matrix of scores of Row 9

Dim	Variances	Correlations between dimensions	
1	5.540E-04	1.000	
2	.001	.653	1.000

Variances and Correlation Matrix of scores of Row 10

Dim	Variances	Correlations between dimensions	
1	1.967E-04	1.000	
2	5.922E-04	.184	1.000

Variances and Correlation Matrix of scores of Row 11

Dim	Variances	Correlations between dimensions	
1	.002	1.000	
2	9.838E-04	.678	1.000

Variances and Correlation Matrix of scores of Row 12

Dim	Variances	Correlations between dimensions	
1	6.263E-04	1.000	
2	9.279E-04	-.714	1.000

Variances and Correlation Matrix of scores of Row 13

Dim	Variances	Correlations between dimensions	
1	4.754E-05	1.000	
2	2.487E-05	.496	1.000

Variances and Correlation Matrix of scores of Row 14

Dim	Variances	Correlations between dimensions	
1	.001	1.000	
2	.002	-.698	1.000

Variances and Correlation Matrix of scores of Row 15

Dim	Variances	Correlations between dimensions	
1	2.215E-04	1.000	
2	7.169E-05	.061	1.000

Variances and Correlation Matrix of scores of Row 16

Dim	Variances	Correlations between dimensions	
1	3.635E-05	1.000	
2	3.860E-05	.530	1.000

Variances and Correlation Matrix of scores of Row 17

Dim	Variances	Correlations between dimensions	
1	.002	1.000	
2	.001	.510	1.000

Variances and Correlation Matrix of scores of Row 18

Dim	Variances	Correlations between dimensions	
1	7.104E-04	1.000	
2	5.250E-04	-.727	1.000

Variances and Correlation Matrix of scores of Row 19

Dim	Variances	Correlations between dimensions	
1	1.477E-04	1.000	
2	7.852E-05	.589	1.000

Variances and Correlation Matrix of scores of Row 20

Dim	Variances	Correlations between dimensions	
1	.002	1.000	
2	7.709E-04	.505	1.000

Variances and Correlation Matrix of scores of Row 21

Dim	Variances	Correlations between dimensions	
1	7.331E-04	1.000	
2	2.460E-04	-.226	1.000

Variances and Correlation Matrix of scores of Column 1 LIANHOA

Dim	Variances	Correlations between dimensions	
1	.001	1.000	
2	4.777E-04	.387	1.000

Variances and Correlation Matrix of scores of Column 2 ENAMSATU

Dim	Variances	Correlations between dimensions	
1	.001	1.000	
2	5.980E-04	-.659	1.000

Variances and Correlation Matrix of scores of Column 3 KARUHUN

Dim	Variances	Correlations between dimensions	
1	2.698E-04	1.000	
2	7.074E-04	.373	1.000

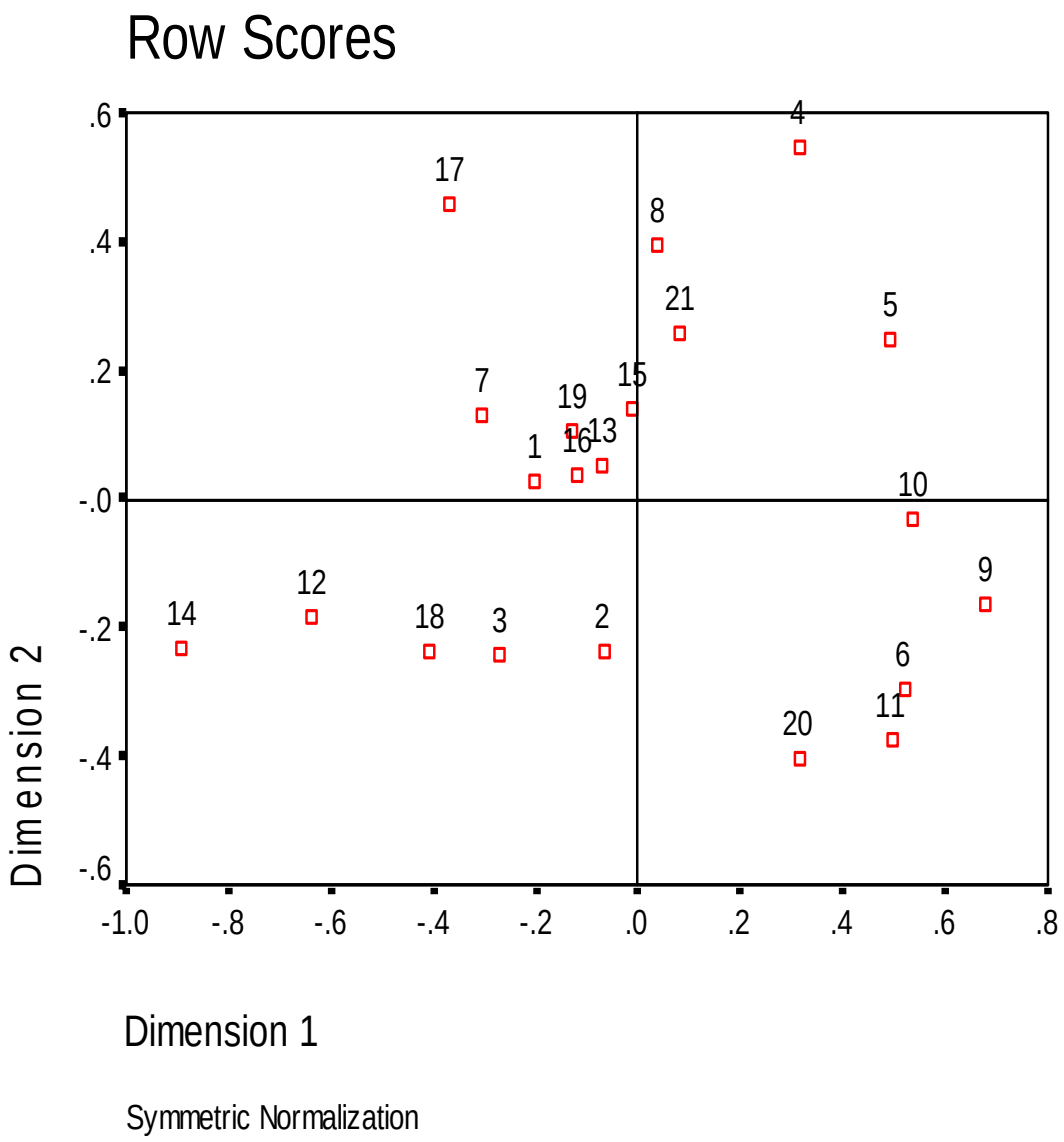
The data-matrix permuted according to the scores in dimension: 1

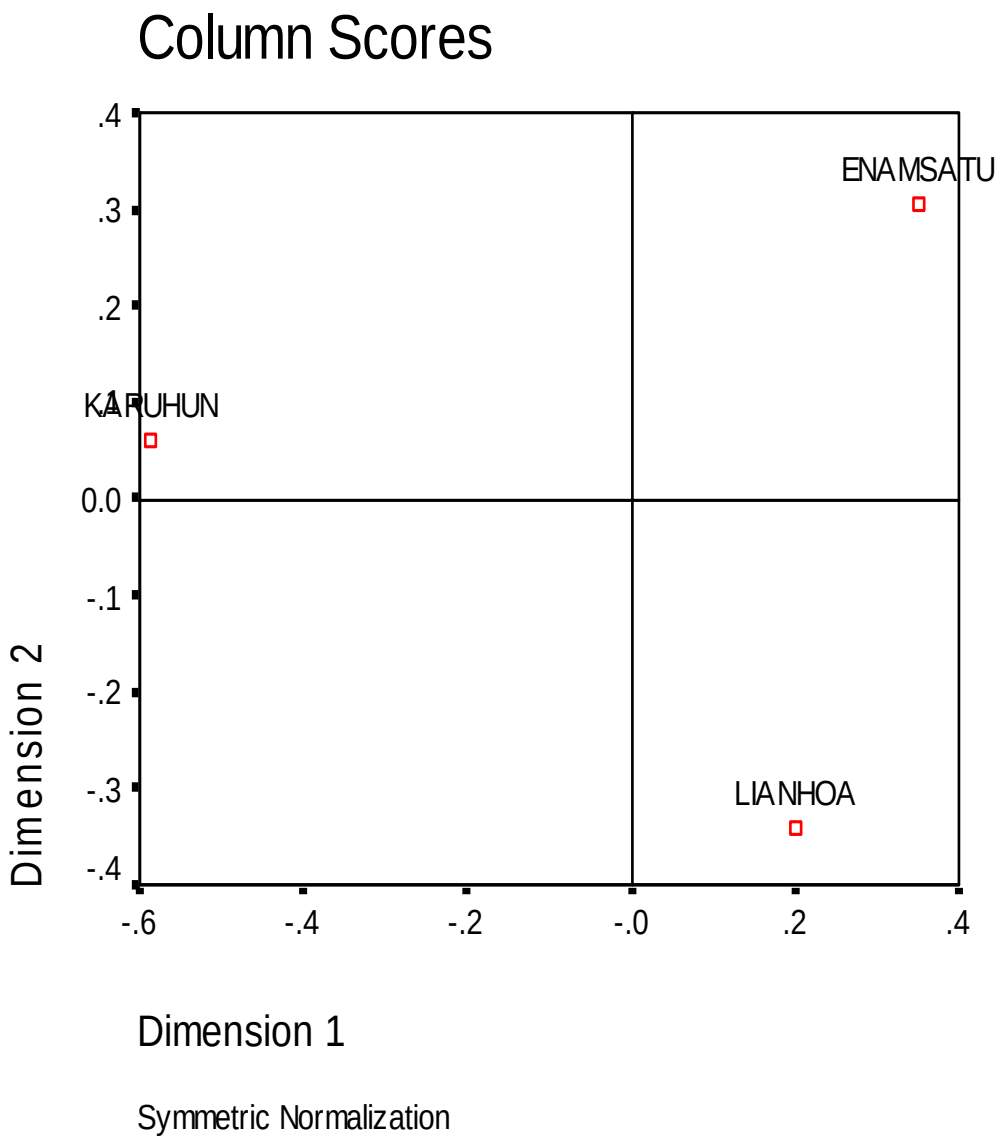
	3 KARUHUN	1 LIANHOA	2 ENAMSATU	Margin
14	318	208	134	660
12	287	216	157	660
18	258	231	171	660
17	262	178	220	660
7	250	207	203	660
3	241	238	181	660
1	236	220	204	660
19	228	217	215	660
16	226	223	211	660

13	220	224	216	660
2	216	247	197	660
15	214	220	226	660
8	211	202	247	660
21	204	215	241	660
20	167	278	215	660
4	179	203	278	660
5	153	235	272	660
11	145	284	231	660
6	143	279	238	660
10	144	259	257	660
9	125	276	259	660
Margin	4427	4860	4573	13860

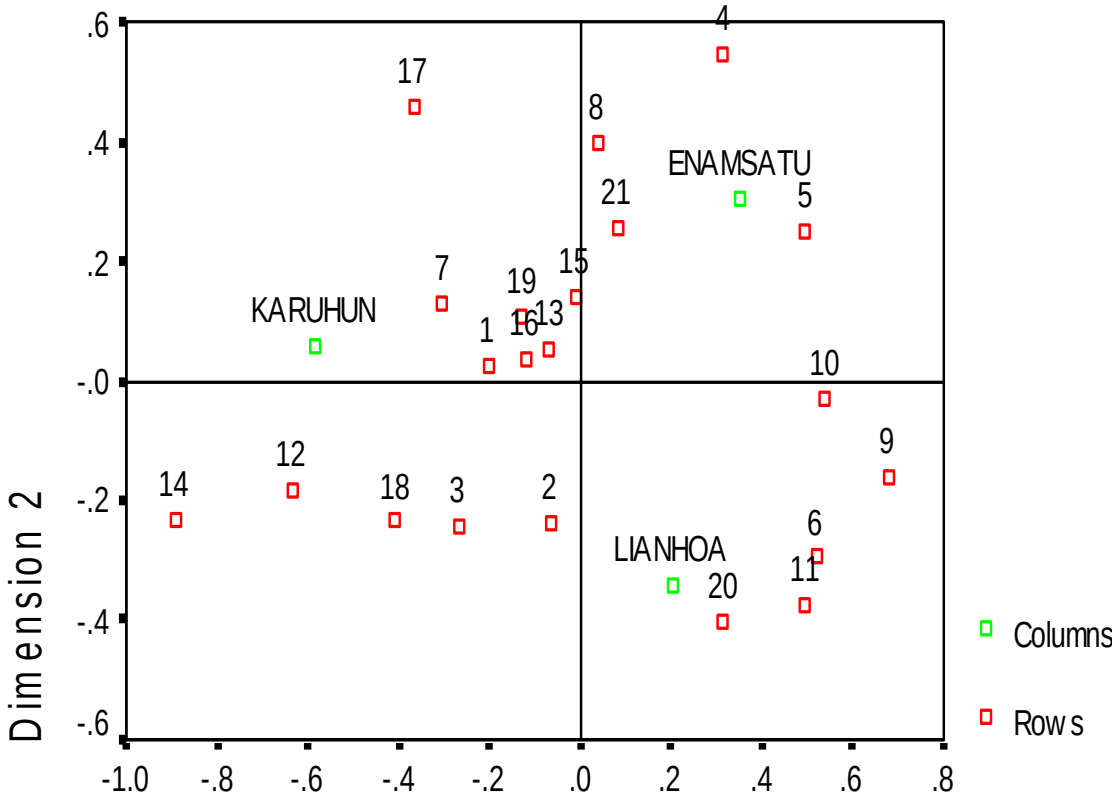
The data-matrix permuted according to the scores in dimension: 2

	1 LIANHOA	3 KARUHUN	2 ENAMSATU	Margin
20	278	167	215	660
11	284	145	231	660
6	279	143	238	660
3	238	241	181	660
2	247	216	197	660
18	231	258	171	660
14	208	318	134	660
12	216	287	157	660
9	276	125	259	660
10	259	144	257	660
1	220	236	204	660
16	223	226	211	660
13	224	220	216	660
19	217	228	215	660
7	207	250	203	660
15	220	214	226	660
5	235	153	272	660
21	215	204	241	660
8	202	211	247	660
17	178	262	220	660
4	203	179	278	660
Margin	4860	4427	4573	13860


Row Scores
Dimension 2
.6
.4
.2
-.0
-.2
-.4
-.6
-1.0
-.8
-.6
-.4
-.2
.0
.2
.4
.6
.8
4
17
8
21
5
7
15
19
13
16
1
10
12
9
14
18
3
2
6
11
20
Dimension 1
Symmetric Normalization


Column Scores
.4
.3
.2
.1
0.0
-.1
-.2
-.3
-.4
ENAMSATU
KARUHUN
LIANHOA
Dimension 2
-.6
-.4
-.2
-.0
.2
.4
Dimension 1
Symmetric Normalization

Row and Column Scores



Symmetric Normalization