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LAMPIRAN

LAMPIRAN 1 DATA PENELITIAN

Provinsi	X1	X2	X3	Y1	Y2	Y...	Y10	Y11
Aceh	5.99	6.98	45.92	71.99	9.33	...	2.72	0.71
Sumatra Utara	5.81	12.54	45.81	71.77	9.54	...	1.51	0.29
Sumatra barat	6.06	11.44	47.3	72.38	8.99	...	0.92	0.2
Riau	5.62	13.61	50.17	72.71	9.14	...	1.14	0.28
Kepulauan Riau	8.16	26.29	50.5	75.59	10.12	...	1.11	0.29
Jambi	4.69	5.83	48.61	71.29	8.55	...	1.1	0.25
Bengkulu	3.57	7.49	50.58	71.4	8.84	...	2.4	0.56
Sumatera Selatan	4.7	5.13	48.07	70.01	8.24	...	2.08	0.48
Bangka Belitung	4.3	5.76	47.9	71.47	8.06	...	0.6	0.13
Lampung	4.46	4.16	48.99	69.69	8.05	...	1.9	0.41
DKI Jakarta	8.05	37.71	58.16	80.77	11.13	...	0.59	0.11
Banten	9.31	11.62	46.63	72.45	8.89	...	1	0.23
Jawa Barat	9.08	10.68	47.07	72.09	8.55	...	1.13	0.11
Jawa Tengah	5.34	2.56	50.82	71.87	7.69	...	1.72	0.34
DI Yogyakarta	3.97	15.01	55.34	79.97	9.55	...	1.94	0.46
Jawa Timur	4.72	5.65	49.82	71.71	7.78	...	1.82	0.43
Bali	3.44	22.03	52.79	75.5	8.95	...	0.52	0.1
NTB	3.63	3.38	47.14	68.25	7.31	...	2.58	0.61
NTT	3.46	5.93	46.22	65.19	7.63	...	4.02	1.05
Kalimantan Barat	5.14	2.86	48.58	67.66	7.37	...	1.01	0.23
Kalimantan Tengah	3.95	7.57	49.6	71.05	8.59	...	0.8	0.2
Kalimantan Selatan	4.2	9.91	48.53	70.91	8.29	...	0.7	0.16
Kalimantan Timur	6.79	17.44	52.82	76.24	9.77	...	1.02	0.24
Kalimantan Utara	5.34	14.09	50.45	70.63	9	...	0.84	0.17
Sulawesi Utara	6.35	5.64	50.42	72.93	9.49	...	1.14	0.25
Gorontalo	3.78	2.46	55.1	68.68	7.82	...	2.67	0.65
Sulawesi Tengah	3.35	5.61	51.3	69.55	8.83	...	2.58	0.77
Sulawesi Barat	2.85	2.15	50.68	66.11	7.89	...	1.89	0.49
Sulawesi Selatan	6	5.31	50.82	71.93	8.38	...	1.53	0.39
Sulawesi Tenggara	3.84	5.3	51.19	71.45	9.04	...	2.04	0.53
Maluku Utara	4.62	6.63	51.76	68.49	9.04	...	0.94	0.21
Maluku	7.14	7.29	50.38	69.49	9.93	...	3.47	1.01
Papua Barat	6.79	13.35	50.71	65.09	7.6	...	5.79	2.06
Papua	3.85	8.47	46.44	60.44	6.69	...	6.16	2.08

LAMPIRAN 2 OUTPUT R STUDIO

```

> summary(ESERBOOT)
PARTIAL LEAST SQUARES PATH MODELING (PLS-PM)
-----
MODEL SPECIFICATION
1  Number of Cases      34
2  Latent Variables     4
3  Manifest Variables   14
4  Scale of Data        Standardized Data
5  Non-Metric PLS      FALSE
6  Weighting Scheme     path
7  Tolerance Crit       1e-06
8  Max Num Iters        100
9  Convergence Iters    4
10 Bootstrapping        TRUE
11 Bootstrap samples    100
-----
BLOCKS UNIDIMENSIONALITY
      Mode  MVs  C.alpha  DG.rho  eig.1st  eig.2nd
Ekonomi      A    3    0.569   0.781    1.66    1.0300
SDM           A    4    0.875   0.914    2.91    0.4983
Kesehatan    A    4    0.754   0.849    2.37    1.0251
Kemiskinan   A    3    0.985   0.990    2.91    0.0878
-----
OUTER MODEL
      weight  loading  communality  redundancy
Ekonomi
  1 X1      0.373    0.609            0.370        0.000
  1 X2      0.511    0.903            0.816        0.000
  1 X3      0.457    0.681            0.464        0.000
SDM
  2 Y1      0.376    0.901            0.812        0.370
  2 Y2      0.277    0.888            0.789        0.359
  2 Y3      0.247    0.782            0.611        0.278
  2 Y4      0.266    0.832            0.693        0.315
Kesehatan
  3 Y5      0.304    0.655            0.429        0.223
  3 Y6      0.229    0.577            0.333        0.174
  3 Y7      0.390    0.898            0.806        0.420
  3 Y8      0.356    0.894            0.799        0.416
Kemiskinan
  4 Y9      0.320    0.974            0.948        0.525
  4 Y10     0.342    0.999            0.999        0.553
  4 Y11     0.353    0.982            0.964        0.533
-----
INNER MODEL
$SDM
      Estimate  Std. Error  t value  Pr(>|t|)
Intercept -3.47e-16    0.13    -2.66e-15  1.0e+00
Ekonomi    6.75e-01    0.13    5.17e+00  1.2e-05

$Kesehatan
      Estimate  Std. Error  t value  Pr(>|t|)

```

Intercept	-1.09e-16	0.124	-8.75e-16	1.00e+00
Ekonomi	-2.14e-01	0.168	-1.27e+00	2.13e-01
SDM	8.49e-01	0.168	5.04e+00	1.94e-05

\$Kemiskinan

	Estimate	Std. Error	t value	Pr(> t)
Intercept	-2.01e-16	0.122	-1.65e-15	1.00000
Ekonomi	1.33e-01	0.170	7.84e-01	0.43914
SDM	-3.51e-01	0.223	-1.57e+00	0.12618
Kesehatan	-5.19e-01	0.176	-2.94e+00	0.00622

SUMMARY INNER MODEL

	Type	R2	Block_Community
Mean_Redundancy	AVE		
Ekonomi	Exogenous	0.000	0.550
0.000	0.550		
SDM	Endogenous	0.455	0.726
0.331	0.726		
Kesehatan	Endogenous	0.521	0.592
0.308	0.592		
Kemiskinan	Endogenous	0.553	0.970
0.537	0.970		

GOODNESS-OF-FIT

[1] 0.5984

TOTAL EFFECTS

	relationships	direct	indirect	total
1	Ekonomi -> SDM	0.675	0.000	0.675
2	Ekonomi -> Kesehatan	-0.214	0.573	0.358
3	Ekonomi -> Kemiskinan	0.133	-0.423	-0.290
4	SDM -> Kesehatan	0.849	0.000	0.849
5	SDM -> Kemiskinan	-0.351	-0.440	-0.791
6	Kesehatan -> Kemiskinan	-0.519	0.000	-0.519

BOOTSTRAP VALIDATION

loadings

	Original	Mean.Boot	Std.Error	perc.025
perc.975				
Ekonomi-X1	0.609	0.590	0.195597	0.1656
0.859				
Ekonomi-X2	0.903	0.879	0.079893	0.7399
0.956				
Ekonomi-X3	0.681	0.625	0.222307	0.0659
0.881				
SDM-Y1	0.901	0.910	0.025525	0.8549
0.946				
SDM-Y2	0.888	0.893	0.027719	0.8442
0.950				
SDM-Y3	0.782	0.730	0.184196	0.1770
0.906				
SDM-Y4	0.832	0.811	0.106169	0.5249
0.939				

Kesehatan-Y5 0.875	0.655	0.561	0.357813	-0.5543
Kesehatan-Y6 0.832	0.577	0.580	0.270448	-0.3984
Kesehatan-Y7 0.956	0.898	0.861	0.185501	0.3457
Kesehatan-Y8 0.969	0.894	0.862	0.140028	0.4610
Kemiskinan-Y9 0.988	0.974	0.975	0.008720	0.9540
Kemiskinan-Y10 1.000	0.999	0.999	0.000368	0.9983
Kemiskinan-Y11 0.990	0.982	0.982	0.005377	0.9691

paths

	Original	Mean.Boot	Std.Error	
perc.025 perc.975				
Ekonomi -> SDM 0.546 0.858	0.675	0.6979	0.088	
Ekonomi -> Kesehatan 0.619 0.765	-0.214	-0.1313	0.314	-
Ekonomi -> Kemiskinan 0.988 0.509	0.133	0.0631	0.314	-
SDM -> Kesehatan 0.149 1.091	0.849	0.7587	0.314	-
SDM -> Kemiskinan 0.851 0.314	-0.351	-0.3109	0.294	-
Kesehatan -> Kemiskinan 0.840 0.186	-0.519	-0.4810	0.240	-

```
> global1 <- rebus.pls(ESERBOOT, stop.crit = 0.005,
+                       iter.max = 100)
[1] "Enter the number of classes (an integer > 1), and then
press Enter:"
1: 2
Read 1 item
```

```
> #MODEL LOKAL REBUS
> local_rebus1 = local.models(ESERBOOT, global1)
Warning messages:
1: Setting row names on a tibble is deprecated.
2: Setting row names on a tibble is deprecated.
3: Setting row names on a tibble is deprecated.
```

```
> summary(local_rebus1$loc.model.1)
PARTIAL LEAST SQUARES PATH MODELING (PLS-PM)
```

```
-----
MODEL SPECIFICATION
1  Number of Cases      9
2  Latent Variables     4
3  Manifest Variables   14
```

4	Scale of Data	Standardized Data
5	Non-Metric PLS	FALSE
6	Weighting Scheme	path
7	Tolerance Crit	1e-06
8	Max Num Iters	100
9	Convergence Iters	4
10	Bootstrapping	FALSE
11	Bootstrap samples	NULL

BLOCKS UNIDIMENSIONALITY

	Mode	MVs	C.alpha	DG.rho	eig.1st	eig.2nd
Ekonomi	A	3	0.828	0.898	2.24	0.5564
SDM	A	4	0.963	0.973	3.60	0.2710
Kesehatan	A	4	0.971	0.979	3.68	0.2287
Kemiskinan	A	3	0.993	0.996	2.96	0.0393

OUTER MODEL

	weight	loading	communality	redundancy
Ekonomi				
1 X1	0.306	0.780	0.608	0.000
1 X2	0.371	0.922	0.850	0.000
1 X3	0.480	0.875	0.766	0.000
SDM				
2 Y1	0.275	0.951	0.905	0.640
2 Y2	0.268	0.950	0.903	0.638
2 Y3	0.259	0.942	0.887	0.627
2 Y4	0.253	0.950	0.903	0.638
Kesehatan				
3 Y5	0.250	0.937	0.877	0.778
3 Y6	0.242	0.922	0.849	0.753
3 Y7	0.273	0.996	0.992	0.879
3 Y8	0.276	0.982	0.964	0.855
Kemiskinan				
4 Y9	0.326	0.989	0.979	0.859
4 Y10	0.339	1.000	1.000	0.877
4 Y11	0.342	0.991	0.981	0.861

INNER MODEL

\$SDM

	Estimate	Std. Error	t value	Pr(> t)
Intercept	-4.62e-16	0.205	-2.26e-15	1.00000
Ekonomi	8.41e-01	0.205	4.11e+00	0.00453

\$Kesehatan

	Estimate	Std. Error	t value	Pr(> t)
Intercept	3.82e-16	0.138	2.78e-15	1.0000
Ekonomi	-3.67e-01	0.254	-1.44e+00	0.1986
SDM	1.23e+00	0.254	4.83e+00	0.0029

\$Kemiskinan

	Estimate	Std. Error	t value	Pr(> t)
Intercept	-1.64e-16	0.157	-1.05e-15	1.0000
Ekonomi	-2.48e-01	0.336	-7.37e-01	0.4942

SDM	1.93e-01	0.641	3.01e-01	0.7759
Kesehatan	-9.39e-01	0.465	-2.02e+00	0.0995

SUMMARY INNER MODEL

	Type	R2	Block_Community
Mean_Redundancy	AVE		
Ekonomi	Exogenous	0.000	0.741
0.000	0.741		
SDM	Endogenous	0.707	0.899
0.636	0.899		
Kesehatan	Endogenous	0.886	0.921
0.816	0.921		
Kemiskinan	Endogenous	0.877	0.987
0.865	0.987		

GOODNESS-OF-FIT

[1] 0.8562

TOTAL EFFECTS

	relationships	direct	indirect	total
1	Ekonomi -> SDM	0.841	0.000	0.841
2	Ekonomi -> Kesehatan	-0.367	1.033	0.666
3	Ekonomi -> Kemiskinan	-0.248	-0.463	-0.711
4	SDM -> Kesehatan	1.229	0.000	1.229
5	SDM -> Kemiskinan	0.193	-1.154	-0.961
6	Kesehatan -> Kemiskinan	-0.939	0.000	-0.939

> summary(local_rebus1\$loc.model.2)

PARTIAL LEAST SQUARES PATH MODELING (PLS-PM)

MODEL SPECIFICATION

1	Number of Cases	25
2	Latent Variables	4
3	Manifest Variables	14
4	Scale of Data	Standardized Data
5	Non-Metric PLS	FALSE
6	Weighting Scheme	path
7	Tolerance Crit	1e-06
8	Max Num Iters	100
9	Convergence Iters	40
10	Bootstrapping	FALSE
11	Bootstrap samples	NULL

BLOCKS UNIDIMENSIONALITY

	Mode	MVs	C.alpha	DG.rho	eig.1st	eig.2nd
Ekonomi	A	3	0.000	0.422	1.81	0.728
SDM	A	4	0.577	0.759	1.97	1.182
Kesehatan	A	4	0.288	0.541	1.64	1.261
Kemiskinan	A	3	0.977	0.985	2.87	0.128

OUTER MODEL

	weight	loading	communality	redundancy
Ekonomi				

1	X1	0.5378	0.841	0.7066	0.00000
1	X2	0.6354	0.895	0.8008	0.00000
1	X3	0.0615	-0.335	0.1125	0.00000
SDM					
2	Y1	-0.6583	-0.262	0.0688	0.00909
2	Y2	0.5142	0.556	0.3092	0.04085
2	Y3	0.2987	0.290	0.0842	0.01112
2	Y4	0.6692	0.679	0.4617	0.06099
Kesehatan					
3	Y5	0.6152	0.840	0.7057	0.45668
3	Y6	-0.0560	-0.274	0.0752	0.04869
3	Y7	0.1997	0.449	0.2018	0.13059
3	Y8	0.4840	0.781	0.6101	0.39483
Kemiskinan					
4	Y9	0.3368	0.962	0.9264	0.31213
4	Y10	0.3428	0.999	0.9972	0.33599
4	Y11	0.3429	0.973	0.9460	0.31874

 INNER MODEL

\$SDM

	Estimate	Std. Error	t value	Pr(> t)
Intercept	-3.64e-15	0.194	-1.88e-14	1.0000
Ekonomi	3.63e-01	0.194	1.87e+00	0.0741

\$Kesehatan

	Estimate	Std. Error	t value	Pr(> t)
Intercept	-2.45e-15	0.127	-1.94e-14	1.00e+00
Ekonomi	-1.70e-01	0.136	-1.25e+00	2.24e-01
SDM	-7.27e-01	0.136	-5.35e+00	2.28e-05

\$Kemiskinan

	Estimate	Std. Error	t value	Pr(> t)
Intercept	1.01e-15	0.178	5.71e-15	1.000
Ekonomi	-2.86e-01	0.197	-1.45e+00	0.162
SDM	2.63e-01	0.289	9.09e-01	0.374
Kesehatan	-4.14e-01	0.299	-1.39e+00	0.180

 SUMMARY INNER MODEL

	Type	R2	Block_Community
Mean_Redundancy	AVE		
Ekonomi	Exogenous	0.000	0.540
0.0000	0.540		
SDM	Endogenous	0.132	0.231
0.0305	0.231		
Kesehatan	Endogenous	0.647	0.398
0.2577	0.398		
Kemiskinan	Endogenous	0.337	0.957
0.3223	0.957		

 GOODNESS-OF-FIT

[1] 0.4315

 TOTAL EFFECTS

	relationships	direct	indirect	total
1	Ekonomi -> SDM	0.363	0.000	0.3635
2	Ekonomi -> Kesehatan	-0.170	-0.264	-0.4342
3	Ekonomi -> Kemiskinan	-0.286	0.275	-0.0104
4	SDM -> Kesehatan	-0.727	0.000	-0.7269
5	SDM -> Kemiskinan	0.263	0.301	0.5641
6	Kesehatan -> Kemiskinan	-0.414	0.000	-0.4145

```
> names(global1$segments[global1$segments==1])
[1] "5" "11" "15" "17" "19" "23" "28" "29" "34"
> names(global1$segments[global1$segments==2])
[1] "1" "2" "3" "4" "6" "7" "8" "9" "10" "12" "13"
"14" "16" "18" "20" "21" "22" "24" "25" "26"
[21] "27" "30" "31" "32" "33"
```

XLSTAT 2015.5.01.22537 - REBUS - on 14/06/2023 at 09:16:55

Agglomerative hierarchical clustering (AHC):

Dissimilarity: Euclidean distance

Agglomeration method: Ward's method

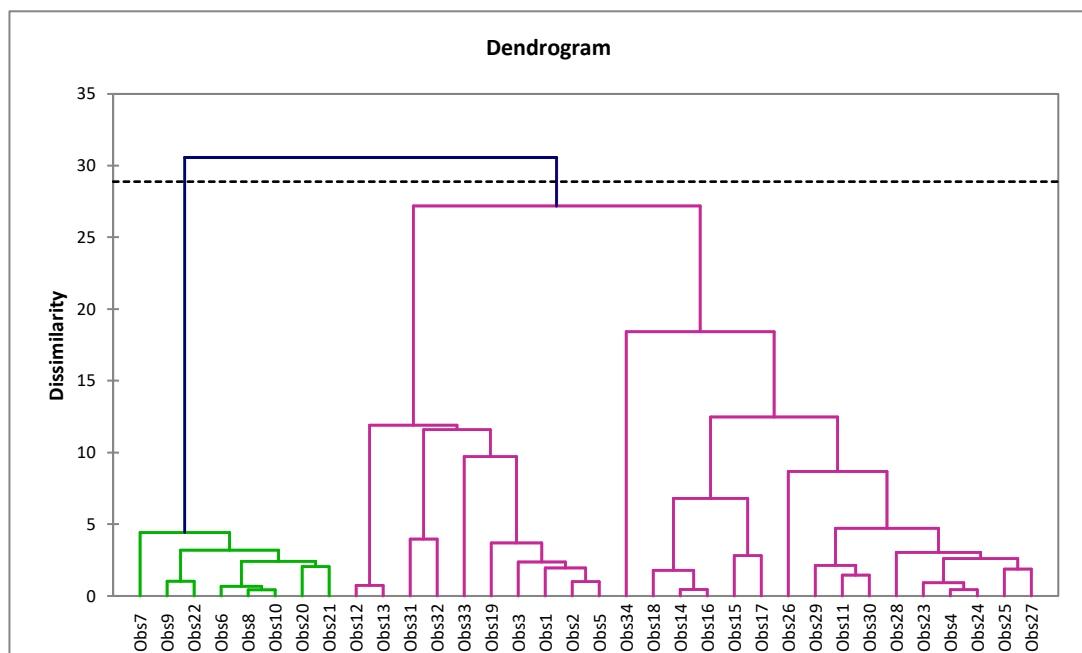
Number of classes: 2

REBUS algorithm:

Dissimilarity: CM Index

Stop conditions: Iterations=100 Threshold= 95%

Dendrogram:



LAMPIRAN 3 DAFTAR RIWAYAT HIDUP

CURRICULUM VITAE

A. Data Pribadi

1. Nama : Esra Rombeallo
2. Tempat, tanggal lahir : Batutu, 3 Juni 1999
3. Alamat : Graha 3 Putra, BTP Blok A, Tamalanrea
4. Kewarganegaraan : Warga Negara Indonesia
5. Nomor HP/Wa : 085397843820
6. e-mail : esrarombeallo01@gmail.com
7. Bidang/Ketertarikan : Forecasting dan Regresi Nonparametrik

B. Riwayat Pendidikan

1. Tamat SD tahun 2011 di SDN 198 Rano
2. Tamat SMP tahun 2014 di SMPN 1 Bonggakaradeng
3. Tamat SMA tahun 2017 di SMA Kristen Makale
4. Sarjana (S1) tahun 2017-2021 di Universitas Negeri Manado Jurusan Matematika Program Studi Pendidikan Matematik
5. Magister (S2) tahun 2023 di Universitas Hasanuddin Departemen Statistika Program Studi Statistika

C. Pekerjaan dan Riwayat Pekerjaan : -

D. Karya ilmiah yang telah dipublikasikan

1. Rombeallo, E., Regar, V. E., & Pangemanan, A. S. (2022). Hubungan Antara Efikasi Diri dan Kemampuan Numerik dengan Hasil Belajar Siswa Materi Persamaan Kuadrat. *MARISEKOLA: Jurnal Matematika Riset Edukasi dan Kolaborasi*, 3(2), 85-90.
2. Rombeallo, E., Tinungki, G. M., & Islamiyati, A. (2023). Response-Based Units Segmentation Partial Least Square (REBUS PLS) Analysis on Human Development Index Data in Indonesia. *International Research Journal of Advanced Engineering and Science (IRJAES)*, 8(3), 18-22.