

											Iterasil					
				Rendah		Sedang		Tinggi		C1	C2	C3				
				X	Y	X	Y	X	Y							
				C1		C2		C3								
No	Jam	TotLength	TotTCP	2619.00	0.00	3685.50	2.00	10104895.00	4971517.00							
1	0	3404	2	785.00		281.50		11258600.35			OK					
2	1	2619	1	1.00		1066.50		11259305.12		OK						
3	2	3862	1	1243.00		176.50		11258189.86			OK					
4	3	2948	0	329.00		737.50		11259010.37		OK						
5	4	3871	1	1252.00		185.50		11258181.79			OK					
6	5	4622	0	2003.00		936.50		11257508.43			OK					
7	6	3163	0	544.00		522.50		11258817.46			OK					
8	7	3253	2	634.00		432.50		11258735.83			OK					
9	8	2911	1	292.00		774.50		11259043.12		OK						
10	9	2648	0	29.00		1037.50		11259279.54		OK						
11	10	3376	12	757.10		309.66		11258621.06			OK					
12	11	2692	0	73.00		993.50		11259240.06		OK						
13	12	3020	0	401.00		665.50		11258945.77		OK						
14	13	3658	0	1039.00		27.57		11258373.34			OK					
15	14	9809	2688	7676.03		6686.69		11251667.56			OK					
16	15	26871	6905	25215.84		24191.30		11234497.77			OK					
17	16	983613	355522	1043429.50		1042426.20		10222778.25			OK					
18	17	3973	100	1357.69		303.74		11258046.56			OK					
19	18	3713	84	1097.22		86.49		11258286.90			OK					
20	19	4114	90	1497.71		437.44		11257924.46			OK					
21	20	4029	69	1411.69		349.97		11258010.00			OK					
22	21	3416	84	801.41		281.70		11258553.37			OK					
23	22	160322	85971	179614.17		178677.54		11079850.72			OK					
24	23	10104895	4971517	11259305.56		11258347.78		0.00				OK				
										Jumlah	6	17	1			
										Total	24					

Iterasi2								
Rendah		Sedang		Tinggi		C1	C2	C3
X	Y	X	Y	X	Y			
C1		C2		C3				
2806.33	0.33	72298.18	#####	10104895.00	4971517.00			
597.67		26775.65		11258600.35		OK		
187.33		26688.27		11259305.12		OK		
1055.67		26838.67		11258189.86		OK		
141.67		26723.53		11259010.37		OK		
1064.67		26839.97		11258181.79		OK		
1815.67		26959.46		11257508.43		OK		
356.67		26748.08		11258817.46		OK		
446.67		26756.88		11258735.83		OK		
104.67		26718.48		11259043.12		OK		
158.33		26692.12		11259279.54		OK		
569.79		26762.18		11258621.06		OK		
114.33		26696.52		11259240.06		OK		
213.67		26731.56		11258945.77		OK		
851.67		26811.09		11258373.34		OK		
7500.73		25808.54		11251667.56		OK		
25035.63		33290.95		11234497.77		OK		
1043253.26		1037162.56		10222778.25			OK	
1170.92		26756.96		11258046.56		OK		
910.52		26735.45		11258286.90		OK		
1310.74		26788.13		11257924.46		OK		
1224.59		26795.97		11258010.00		OK		
615.38		26695.85		11258553.37		OK		
179449.55		170973.95		11079850.72			OK	
11259137.33		11249953.59		0.00				OK
Jumlah						21	2	1
Total						24		

Iterasi3							C1	C2	C3
Rendah		Sedang		Tinggi					
X	Y	X	Y	X	Y				
C1		C2		C3					
4,856	4,856	493,515	#####	10,104,895	4,971,517				
5066.282442		537528.0797		11258600.35		OK			
5345.324345		538244.3383		11259305.12		OK			
4955.485131		537110.9257		11258189.86		OK			
5217.147047		537944.7074		11259010.37		OK			
4953.688051		537102.721		11258181.79		OK			
4861.435284		536418.5808		11257508.43		OK			
5142.420657		537748.6502		11258817.46		OK			
5111.601047		537665.763		11258735.83		OK			
5229.862292		537978.0386		11259043.12		OK			
5334.164323		538218.2997		11259279.54		OK			
5064.812625		537549.5035		11258621.06		OK			
5316.103628		538178.171		11259240.06		OK			
5191.250595		537879.0494		11258945.77		OK			
5001.363193		537297.3179		11258373.34		OK			
5406.80072		530585.0734		11251667.56		OK			
22110.35489		513307.26		11234497.77		OK			
1039678.996		508292.2143		10222778.25			OK		
4837.052499		536969.0477		11258046.56		OK			
4906.748388		537212.6658		11258286.9		OK			
4823.196221		536844.6148		11257924.46		OK			
4857.690748		536930.7346		11258010		OK			
4984.297102		537483.4682		11258553.37		OK			
175355.0983		359418.5269		11079850.72		OK			
11255155.04		10721401.75		0				OK	
Jumlah						22	1	1	
Total						24			

Iterasi4						Hasil Clustering			
Rendah		Sedang		Tinggi		C1	C2	C3	Tingkat Bahaya
X	Y	X	Y	X	Y				
C1		C2		C3					
11922.45	#####	#####	####	10104895.00	4971517.00				
9570.39		1042690.82		11258600.35		OK			SEDANG
10275.76		1043429.16		11259305.12		OK			SEDANG
9165.58		1042260.62		11258189.86		OK			SEDANG
9979.30		1043120.19		11259010.37		OK			SEDANG
9157.67		1042252.16		11258181.79		OK			SEDANG
8505.43		1041546.58		11257508.43		OK			SEDANG
9786.41		1042918.07		11258817.46		OK			SEDANG
9705.03		1042832.78		11258735.83		OK			SEDANG
10012.16		1043154.64		11259043.12		OK			SEDANG
10249.94		1043402.23		11259279.54		OK			SEDANG
9590.78		1042713.74		11258621.06		OK			SEDANG
10210.14		1043360.87		11259240.06		OK			SEDANG
9914.60		1043052.50		11258945.77		OK			SEDANG
9345.96		1042452.73		11258373.34		OK			SEDANG
2697.43		1035753.86		11251667.56		OK			SEDANG
15162.95		1018277.50		11234497.77		OK			SEDANG
1033196.19		0.00		10222778.25			OK		SEDANG
9020.90		1042122.51		11258046.56		OK			SEDANG
9258.22		1042372.38		11258286.90		OK			SEDANG
8901.70		1041993.38		11257924.46		OK			SEDANG
8986.37		1042080.44		11258010.00		OK			SEDANG
9522.57		1042651.59		11258553.37		OK			SEDANG
169357.92		866294.30		11079850.72		OK			SEDANG
11249031.17		10222778.25		0.00				OK	TINGGI
Jumlah						22	1	1	
Total						24			

Hasil Clustering

Data ke-i	Fitur		Cluster yg diikuti
	X	Y	
1	3404	2	1
2	2619	1	1
3	3862	1	1
4	2948	0	1
5	3871	1	1
6	4622	0	1
7	3163	0	1
8	3253	2	1
9	2911	1	1
10	2648	0	1
11	3376	12	1
12	2692	0	1
13	3020	0	1
14	3658	0	1
15	9809	2688	1
16	26871	6905	1
17	983613	355522	2
18	3973	100	1
19	3713	84	1
20	4114	90	1
21	4029	69	1
22	3416	84	1
23	160322	85971	1
24	10104895	4971517	3

Rata2 Centroid I

3404	2
2619	1
3862	1
2948	0
3871	1
4622	0
3163	0
3253	2
2911	1
2648	0
3376	12
2692	0
3020	0
3658	0
9809	2688
26871	6905
3973	100
3713	84
4114	90
4029	69
3416	84
160322	85971

banyak 22 22
 total 262294 96011
 Mean 11922.45455 4364.136364

Rata2 Centroid2

983613	355522
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Rata Centroid3

10104895	4971517
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Centroid	X	Y
1	11922.455	4364.136
2	983613	355522
3	10104895	4971517

jarak data dalam cluster1 ke centroid c1

Data ke 1-16, 18-2
 9570.3867
 10275.759
 9165.5816
 9979.3046
 9157.6678
 8505.429
 9786.4054
 9705.0335
 10012.156
 10249.936
 9590.7756
 10210.141
 9914.6045
 9345.9561
 2697.429
 15162.948
 9020.9028
 9258.224
 8901.6967
 8986.3686
 9522.5698
 169357.92

jarak data dalam cluster 2 ke centroid c2

data ke17 0

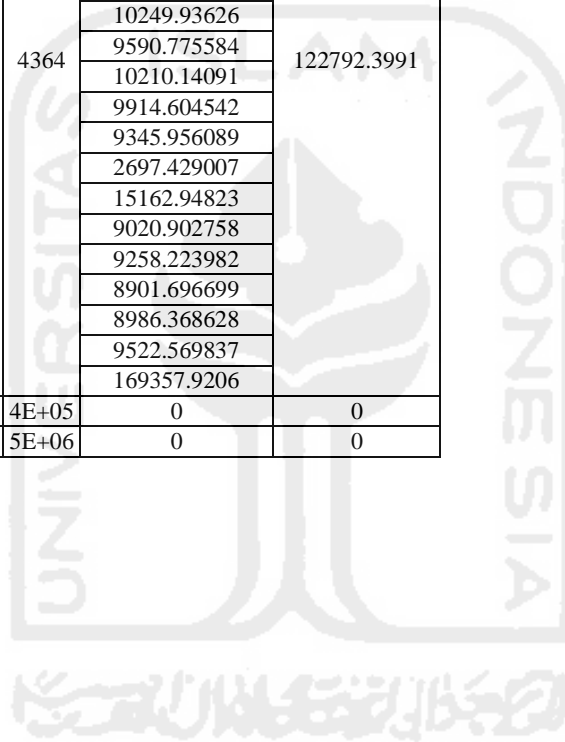
jarak data dalam cluster 3 ke centroid c3

data ke 24 0



Perhitungan SSW hasil clustering							SSW
Data ke-i	fitur		cluster yang diikuti	centroid		Jarak ke centroid	
	x	y		x	y		
1	3404	2	1	11922	4364	9570.3867	122792.3991
2	2619	1	1			10275.75912	
3	3862	1	1			9165.581623	
4	2948	0	1			9979.304619	
5	3871	1	1			9157.667787	
6	4622	0	1			8505.429022	
7	3163	0	1			9786.405378	
8	3253	2	1			9705.033532	
9	2911	1	1			10012.15621	
10	2648	0	1			10249.93626	
11	3376	12	1			9590.775584	
12	2692	0	1			10210.14091	
13	3020	0	1			9914.604542	
14	3658	0	1			9345.956089	
15	9809	2688	1			2697.429007	
16	26871	6905	1			15162.94823	
18	3973	100	1			9020.902758	
19	3713	84	1			9258.223982	
20	4114	90	1			8901.696699	
21	4029	69	1			8986.368628	
22	3416	84	1			9522.569837	
23	160322	85971	1			169357.9206	
17	983613	355522	2			1E+06	
24	10104895	4971517	3	1E+07	5E+06	0	0

SSW1 122792.4
SSW2 0
SSW3 0



Perhitungan SSB hasil Clustering

	SSB	Data ke - i		
		1	2	3
Data ke -i	1	0	1033196.187	1E+07
	2	1033196		0 1E+07
	3	11249031	10222778.25	0

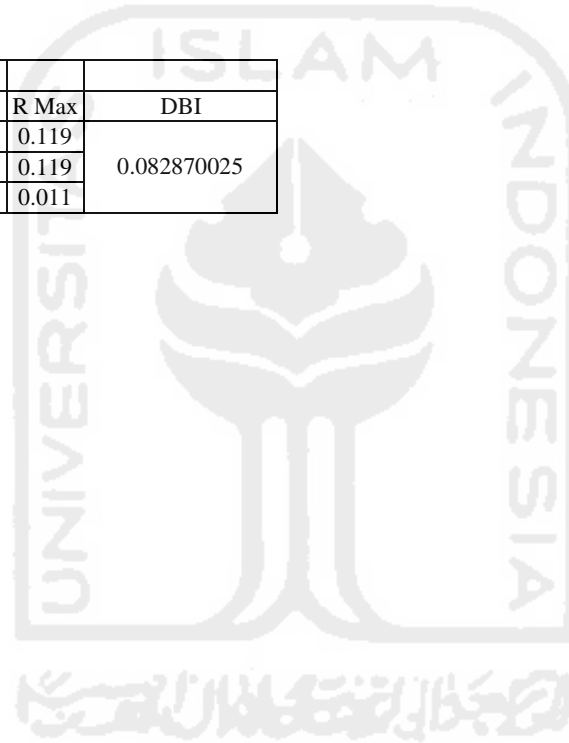
SSB12 1033196.187
 SSB13 11249031.17
 SSB23 10222778.25

Perhitungan nilai R

R12 0.1188471
 R13 0.0109158
 R23 0

Perhitungan R dan DBI hasil Clustering

	R	Data ke -i			R Max	DBI
		1	2	3		
Data ke -i	1	0	0.118847128	0.011	0.119	0.082870025
	2	0.118847	0	0	0.119	
	3	0.010916	0	0	0.011	



Iterasi1													
				Rendah		Sedang		Tinggi		C1	C2	C3	
				X	Y	X	Y	X	Y				
				C1		C2		C3					
No	Jam	TotLength	TotTCP	2619.00	0.00	3685.50	2.00	10104895.00	4971517.00				
1	0	3404	2	785.00		281.50		11258600.35		OK			
2	1	2619	1	1.00		1066.50		11259305.12	OK				
3	2	3862	1	1243.00		176.50		11258189.86		OK			
4	3	2948	0	329.00		737.50		11259010.37	OK				
5	4	3871	1	1252.00		185.50		11258181.79		OK			
6	5	4622	0	2003.00		936.50		11257508.43		OK			
7	6	3163	0	544.00		522.50		11258817.46		OK			
8	7	3253	2	634.00		432.50		11258735.83		OK			
9	8	2911	1	292.00		774.50		11259043.12	OK				
10	9	2648	0	29.00		1037.50		11259279.54	OK				
11	10	3376	12	757.10		309.66		11258621.06		OK			
12	11	2692	0	73.00		993.50		11259240.06	OK				
13	12	3020	0	401.00		665.50		11258945.77	OK				
14	13	3658	0	1039.00		27.57		11258373.34		OK			
15	14	9809	2688	7676.03		6686.69		11251667.56		OK			
16	15	26871	6905	25215.84		24191.30		11234497.77		OK			
17	16	983613	355522	1043429.50		1042426.20		10222778.25		OK			
18	17	3973	100	1357.69		303.74		11258046.56		OK			
19	18	3713	84	1097.22		86.49		11258286.90		OK			
20	19	4114	90	1497.71		437.44		11257924.46		OK			
21	20	4029	69	1411.69		349.97		11258010.00		OK			
22	21	3416	84	801.41		281.70		11258553.37		OK			
23	22	160322	85971	179614.17		178677.54		11079850.72		OK			
24	23	10104895	4971517	11259305.56		11258347.78		0.00			OK		
										Jumlah	6	17	1
										Total	24		

Iterasi2							C1	C2	C3
Rendah		Sedang		Tinggi					
X	Y	X	Y	X	Y				
C1		C2		C3					
2806.33	0.33	72298.18	####	10104895.00	4971517.00				
597.67		26775.65		11258600.35		OK			
187.33		26688.27		11259305.12		OK			
1055.67		26838.67		11258189.86		OK			
141.67		26723.53		11259010.37		OK			
1064.67		26839.97		11258181.79		OK			
1815.67		26959.46		11257508.43		OK			
356.67		26748.08		11258817.46		OK			
446.67		26756.88		11258735.83		OK			
104.67		26718.48		11259043.12		OK			
158.33		26692.12		11259279.54		OK			
569.79		26762.18		11258621.06		OK			
114.33		26696.52		11259240.06		OK			
213.67		26731.56		11258945.77		OK			
851.67		26811.09		11258373.34		OK			
7500.73		25808.54		11251667.56		OK			
25035.63		33290.95		11234497.77		OK			
1043253.26		1037162.56		10222778.25			OK		
1170.92		26756.96		11258046.56		OK			
910.52		26735.45		11258286.90		OK			
1310.74		26788.13		11257924.46		OK			
1224.59		26795.97		11258010.00		OK			
615.38		26695.85		11258553.37		OK			
179449.55		170973.95		11079850.72			OK		
11259137.33		11249953.59		0.00				OK	
Jumlah						21	2	1	
Total						24			

Iterasi3								
Rendah		Sedang		Tinggi		C1	C2	C3
X	Y	X	Y	X	Y			
C1		C2		C3				
4,856	4,856	493,515	####	10,104,895	4,971,517			
5066.282442		537528.0797		11258600.35		OK		
5345.324345		538244.3383		11259305.12		OK		
4955.485131		537110.9257		11258189.86		OK		
5217.147047		537944.7074		11259010.37		OK		
4953.688051		537102.721		11258181.79		OK		
4861.435284		536418.5808		11257508.43		OK		
5142.420657		537748.6502		11258817.46		OK		
5111.601047		537665.763		11258735.83		OK		
5229.862292		537978.0386		11259043.12		OK		
5334.164323		538218.2997		11259279.54		OK		
5064.812625		537549.5035		11258621.06		OK		
5316.103628		538178.171		11259240.06		OK		
5191.250595		537879.0494		11258945.77		OK		
5001.363193		537297.3179		11258373.34		OK		
5406.80072		530585.0734		11251667.56		OK		
22110.35489		513307.26		11234497.77		OK		
1039678.996		508292.2143		10222778.25			OK	
4837.052499		536969.0477		11258046.56		OK		
4906.748388		537212.6658		11258286.9		OK		
4823.196221		536844.6148		11257924.46		OK		
4857.690748		536930.7346		11258010		OK		
4984.297102		537483.4682		11258553.37		OK		
175355.0983		359418.5269		11079850.72		OK		
11255155.04		10721401.75		0				OK
Jumlah						22	1	1
Total						24		

Iterasi4						Hasil Clustering			
Rendah		Sedang		Tinggi		C1	C2	C3	Tingkat Bahaya
X	Y	X	Y	X	Y				
C1		C2		C3					
11922.45	#####	#####	####	10104895.00	4971517.00				
9570.39		1042690.82		11258600.35		OK			SEDANG
10275.76		1043429.16		11259305.12		OK			SEDANG
9165.58		1042260.62		11258189.86		OK			SEDANG
9979.30		1043120.19		11259010.37		OK			SEDANG
9157.67		1042252.16		11258181.79		OK			SEDANG
8505.43		1041546.58		11257508.43		OK			SEDANG
9786.41		1042918.07		11258817.46		OK			SEDANG
9705.03		1042832.78		11258735.83		OK			SEDANG
10012.16		1043154.64		11259043.12		OK			SEDANG
10249.94		1043402.23		11259279.54		OK			SEDANG
9590.78		1042713.74		11258621.06		OK			SEDANG
10210.14		1043360.87		11259240.06		OK			SEDANG
9914.60		1043052.50		11258945.77		OK			SEDANG
9345.96		1042452.73		11258373.34		OK			SEDANG
2697.43		1035753.86		11251667.56		OK			SEDANG
15162.95		1018277.50		11234497.77		OK			SEDANG
1033196.19		0.00		10222778.25			OK		SEDANG
9020.90		1042122.51		11258046.56		OK			SEDANG
9258.22		1042372.38		11258286.90		OK			SEDANG
8901.70		1041993.38		11257924.46		OK			SEDANG
8986.37		1042080.44		11258010.00		OK			SEDANG
9522.57		1042651.59		11258553.37		OK			SEDANG
169357.92		866294.30		11079850.72		OK			SEDANG
11249031.17		10222778.25		0.00				OK	TINGGI
Jumlah						22	1	1	
Total						24			

Hasil Clustering

Data ke-i	Fitur		Cluster yg diikuti
	X	Y	
1	3404	2	1
2	2619	1	1
3	3862	1	1
4	2948	0	1
5	3871	1	1
6	4622	0	1
7	3163	0	1
8	3253	2	1
9	2911	1	1
10	2648	0	1
11	3376	12	1
12	2692	0	1
13	3020	0	1
14	3658	0	1
15	9809	2688	1
16	26871	6905	1
17	983613	355522	2
18	3973	100	1
19	3713	84	1
20	4114	90	1
21	4029	69	1
22	3416	84	1
23	160322	85971	1
24	10104895	4971517	3

Rata2 Centroid I

3404	2
2619	1
3862	1
2948	0
3871	1
4622	0
3163	0
3253	2
2911	1
2648	0
3376	12
2692	0
3020	0
3658	0
9809	2688
26871	6905
3973	100
3713	84
4114	90
4029	69
3416	84
160322	85971

banyak	22	22
total	262294	96011
Mean	11922.45455	4364.136364

Rata2 Centroid2

983613	355522
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Rata Centroid3

10104895	4971517
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Centroid	X	Y
1	11922.455	4364.136
2	983613	355522
3	10104895	4971517

jarak data dalam cluster1 ke centroid c1

Data ke 1-16, 18-2

9570.3867
10275.759
9165.5816
9979.3046
9157.6678
8505.429
9786.4054
9705.0335
10012.156
10249.936
9590.7756
10210.141
9914.6045
9345.9561
2697.429
15162.948
9020.9028
9258.224
8901.6967
8986.3686
9522.5698
169357.92

jarak data dalam cluster 2 ke centroid c2

data ke17 0

jarak data dalam cluster 3 ke centroid c3

data ke 24 0



Perhitungan SSW hasil clustering							SSW
Data ke-i	fitur		cluster yang diikuti	centroid		Jarak ke centroid	
	x	y		x	y		
1	3404	2	1	11922	4364	9570.3867	122792.3991
2	2619	1	1			10275.75912	
3	3862	1	1			9165.581623	
4	2948	0	1			9979.304619	
5	3871	1	1			9157.667787	
6	4622	0	1			8505.429022	
7	3163	0	1			9786.405378	
8	3253	2	1			9705.033532	
9	2911	1	1			10012.15621	
10	2648	0	1			10249.93626	
11	3376	12	1			9590.775584	
12	2692	0	1			10210.14091	
13	3020	0	1			9914.604542	
14	3658	0	1			9345.956089	
15	9809	2688	1			2697.429007	
16	26871	6905	1			15162.94823	
18	3973	100	1			9020.902758	
19	3713	84	1			9258.223982	
20	4114	90	1			8901.696699	
21	4029	69	1			8986.368628	
22	3416	84	1			9522.569837	
23	160322	85971	1			169357.9206	
17	983613	355522	2			1E+06	
24	10104895	4971517	3	1E+07	5E+06	0	0

SSW1 122792.4
SSW2 0
SSW3 0

Perhitungan SSB hasil Clustering

	SSB	Data ke - i		
		1	2	3
Data ke -i	1	0	1033196.187	1E+07
	2	1033196	0	1E+07
	3	11249031	10222778.25	0

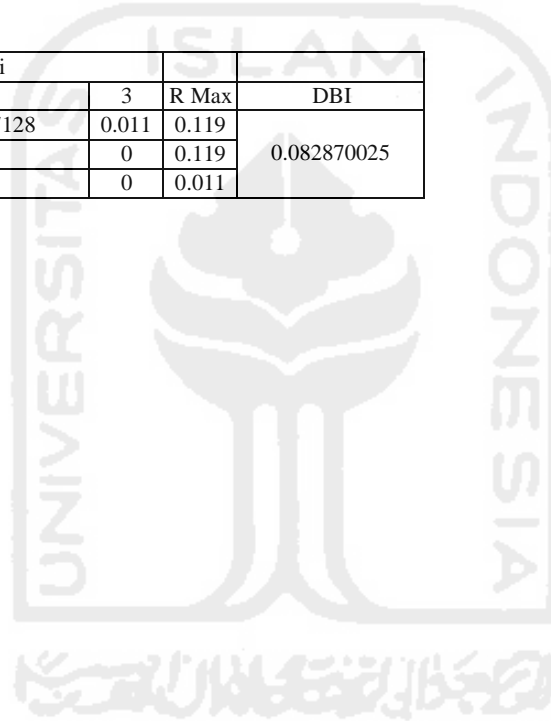
SSB12 1033196.187
 SSB13 11249031.17
 SSB23 10222778.25

Perhitungan nilai R

R12 0.1188471
 R13 0.0109158
 R23 0

Perhitungan R dan DBI hasil Clustering

	R	Data ke -i			R Max	DBI
		1	2	3		
Data ke -i	1	0	0.118847128	0.011	0.119	0.082870025
	2	0.118847	0	0	0.119	
	3	0.010916	0	0	0.011	



Iterasi1													
				Rendah		Sedang		Tinggi		C1	C2	C3	
				X	Y	X	Y	X	Y				
				C1		C2		C3					
No	Jam	TotLength	TotTCP	2619.00	0.00	3685.50	2.00	10104895.00	4971517.00				
1	0	3404	2	785.00		281.50		11258600.35		OK			
2	1	2619	1	1.00		1066.50		11259305.12	OK				
3	2	3862	1	1243.00		176.50		11258189.86		OK			
4	3	2948	0	329.00		737.50		11259010.37	OK				
5	4	3871	1	1252.00		185.50		11258181.79		OK			
6	5	4622	0	2003.00		936.50		11257508.43		OK			
7	6	3163	0	544.00		522.50		11258817.46		OK			
8	7	3253	2	634.00		432.50		11258735.83		OK			
9	8	2911	1	292.00		774.50		11259043.12	OK				
10	9	2648	0	29.00		1037.50		11259279.54	OK				
11	10	3376	12	757.10		309.66		11258621.06		OK			
12	11	2692	0	73.00		993.50		11259240.06	OK				
13	12	3020	0	401.00		665.50		11258945.77	OK				
14	13	3658	0	1039.00		27.57		11258373.34		OK			
15	14	9809	2688	7676.03		6686.69		11251667.56		OK			
16	15	26871	6905	25215.84		24191.30		11234497.77		OK			
17	16	983613	355522	1043429.50		1042426.20		10222778.25		OK			
18	17	3973	100	1357.69		303.74		11258046.56		OK			
19	18	3713	84	1097.22		86.49		11258286.90		OK			
20	19	4114	90	1497.71		437.44		11257924.46		OK			
21	20	4029	69	1411.69		349.97		11258010.00		OK			
22	21	3416	84	801.41		281.70		11258553.37		OK			
23	22	160322	85971	179614.17		178677.54		11079850.72		OK			
24	23	10104895	4971517	11259305.56		11258347.78		0.00			OK		
										Jumlah	6	17	1
										Total	24		

Iterasi2							C1	C2	C3
Rendah		Sedang		Tinggi					
X	Y	X	Y	X	Y				
C1		C2		C3					
2806.33	0.33	72298.18	####	10104895.00	4971517.00				
597.67		26775.65		11258600.35		OK			
187.33		26688.27		11259305.12		OK			
1055.67		26838.67		11258189.86		OK			
141.67		26723.53		11259010.37		OK			
1064.67		26839.97		11258181.79		OK			
1815.67		26959.46		11257508.43		OK			
356.67		26748.08		11258817.46		OK			
446.67		26756.88		11258735.83		OK			
104.67		26718.48		11259043.12		OK			
158.33		26692.12		11259279.54		OK			
569.79		26762.18		11258621.06		OK			
114.33		26696.52		11259240.06		OK			
213.67		26731.56		11258945.77		OK			
851.67		26811.09		11258373.34		OK			
7500.73		25808.54		11251667.56		OK			
25035.63		33290.95		11234497.77		OK			
1043253.26		1037162.56		10222778.25			OK		
1170.92		26756.96		11258046.56		OK			
910.52		26735.45		11258286.90		OK			
1310.74		26788.13		11257924.46		OK			
1224.59		26795.97		11258010.00		OK			
615.38		26695.85		11258553.37		OK			
179449.55		170973.95		11079850.72			OK		
11259137.33		11249953.59		0.00				OK	
Jumlah						21	2	1	
Total						24			

Iterasi3								
Rendah		Sedang		Tinggi		C1	C2	C3
X	Y	X	Y	X	Y			
C1		C2		C3				
4,856	4,856	493,515	####	10,104,895	4,971,517			
5066.282442		537528.0797		11258600.35		OK		
5345.324345		538244.3383		11259305.12		OK		
4955.485131		537110.9257		11258189.86		OK		
5217.147047		537944.7074		11259010.37		OK		
4953.688051		537102.721		11258181.79		OK		
4861.435284		536418.5808		11257508.43		OK		
5142.420657		537748.6502		11258817.46		OK		
5111.601047		537665.763		11258735.83		OK		
5229.862292		537978.0386		11259043.12		OK		
5334.164323		538218.2997		11259279.54		OK		
5064.812625		537549.5035		11258621.06		OK		
5316.103628		538178.171		11259240.06		OK		
5191.250595		537879.0494		11258945.77		OK		
5001.363193		537297.3179		11258373.34		OK		
5406.80072		530585.0734		11251667.56		OK		
22110.35489		513307.26		11234497.77		OK		
1039678.996		508292.2143		10222778.25			OK	
4837.052499		536969.0477		11258046.56		OK		
4906.748388		537212.6658		11258286.9		OK		
4823.196221		536844.6148		11257924.46		OK		
4857.690748		536930.7346		11258010		OK		
4984.297102		537483.4682		11258553.37		OK		
175355.0983		359418.5269		11079850.72		OK		
11255155.04		10721401.75		0				OK
Jumlah						22	1	1
Total						24		

Iterasi4						Hasil Clustering			
Rendah		Sedang		Tinggi		C1	C2	C3	Tingkat Bahaya
X	Y	X	Y	X	Y				
C1		C2		C3					
11922.45	####	#####	####	10104895.00	4971517.00				
9570.39		1042690.82		11258600.35		OK			SEDANG
10275.76		1043429.16		11259305.12		OK			SEDANG
9165.58		1042260.62		11258189.86		OK			SEDANG
9979.30		1043120.19		11259010.37		OK			SEDANG
9157.67		1042252.16		11258181.79		OK			SEDANG
8505.43		1041546.58		11257508.43		OK			SEDANG
9786.41		1042918.07		11258817.46		OK			SEDANG
9705.03		1042832.78		11258735.83		OK			SEDANG
10012.16		1043154.64		11259043.12		OK			SEDANG
10249.94		1043402.23		11259279.54		OK			SEDANG
9590.78		1042713.74		11258621.06		OK			SEDANG
10210.14		1043360.87		11259240.06		OK			SEDANG
9914.60		1043052.50		11258945.77		OK			SEDANG
9345.96		1042452.73		11258373.34		OK			SEDANG
2697.43		1035753.86		11251667.56		OK			SEDANG
15162.95		1018277.50		11234497.77		OK			SEDANG
1033196.19		0.00		10222778.25			OK		SEDANG
9020.90		1042122.51		11258046.56		OK			SEDANG
9258.22		1042372.38		11258286.90		OK			SEDANG
8901.70		1041993.38		11257924.46		OK			SEDANG
8986.37		1042080.44		11258010.00		OK			SEDANG
9522.57		1042651.59		11258553.37		OK			SEDANG
169357.92		866294.30		11079850.72		OK			SEDANG
11249031.17		10222778.25		0.00				OK	TINGGI
Jumlah						22	1	1	
Total						24			

Hasil Clustering

Data ke-i	Fitur		Cluster yg diikuti
	X	Y	
1	3404	2	1
2	2619	1	1
3	3862	1	1
4	2948	0	1
5	3871	1	1
6	4622	0	1
7	3163	0	1
8	3253	2	1
9	2911	1	1
10	2648	0	1
11	3376	12	1
12	2692	0	1
13	3020	0	1
14	3658	0	1
15	9809	2688	1
16	26871	6905	1
17	983613	355522	2
18	3973	100	1
19	3713	84	1
20	4114	90	1
21	4029	69	1
22	3416	84	1
23	160322	85971	1
24	10104895	4971517	3

Rata2 Centroid I

3404	2
2619	1
3862	1
2948	0
3871	1
4622	0
3163	0
3253	2
2911	1
2648	0
3376	12
2692	0
3020	0
3658	0
9809	2688
26871	6905
3973	100
3713	84
4114	90
4029	69
3416	84
160322	85971

banyak	22	22
total	262294	96011
Mean	11922.45455	4364.136364

Rata2 Centroid2

983613	355522
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Rata Centroid3

10104895	4971517
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Centroid	X	Y
1	11922.455	4364.136
2	983613	355522
3	10104895	4971517

jarak data dalam cluster1 ke centroid c1

Data ke 1-16, 18-2

9570.3867
10275.759
9165.5816
9979.3046
9157.6678
8505.429
9786.4054
9705.0335
10012.156
10249.936
9590.7756
10210.141
9914.6045
9345.9561
2697.429
15162.948
9020.9028
9258.224
8901.6967
8986.3686
9522.5698
169357.92

jarak data dalam cluster 2 ke centroid c2

data ke17 0

jarak data dalam cluster 3 ke centroid c3

data ke 24 0



Perhitungan SSW hasil clustering							SSW
Data ke-i	fitur		cluster yang diikuti	centroid		Jarak ke centroid	
	x	y		x	y		
1	3404	2	1	11922	4364	9570.3867	122792.3991
2	2619	1	1			10275.75912	
3	3862	1	1			9165.581623	
4	2948	0	1			9979.304619	
5	3871	1	1			9157.667787	
6	4622	0	1			8505.429022	
7	3163	0	1			9786.405378	
8	3253	2	1			9705.033532	
9	2911	1	1			10012.15621	
10	2648	0	1			10249.93626	
11	3376	12	1			9590.775584	
12	2692	0	1			10210.14091	
13	3020	0	1			9914.604542	
14	3658	0	1			9345.956089	
15	9809	2688	1			2697.429007	
16	26871	6905	1			15162.94823	
18	3973	100	1			9020.902758	
19	3713	84	1			9258.223982	
20	4114	90	1			8901.696699	
21	4029	69	1			8986.368628	
22	3416	84	1			9522.569837	
23	160322	85971	1			169357.9206	
17	983613	355522	2			1E+06	
24	10104895	4971517	3	1E+07	5E+06	0	0

SSW1 122792.4
SSW2 0
SSW3 0

Perhitungan SSB hasil Clustering

	SSB	Data ke - i		
		1	2	3
Data ke -i	1	0	1033196.187	1E+07
	2	1033196	0	1E+07
	3	11249031	10222778.25	0

SSB12 1033196.187
 SSB13 11249031.17
 SSB23 10222778.25

Perhitungan nilai R

R12 0.1188471
 R13 0.0109158
 R23 0

Perhitungan R dan DBI hasil Clustering

	R	Data ke -i			R Max	DBI
		1	2	3		
Data ke -i	1	0	0.118847128	0.011	0.119	0.082870025
	2	0.118847	0	0	0.119	
	3	0.010916	0	0	0.011	

