

ANEXOS

ANEXO I – MATRIZ DE DADOS 1990

Proximity Matrix

Case	Squared Euclidean Distance																	
	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35
1	,000	7398,360	8077,480	9505,590	3993,220	3547,100	6588,660	165,990	137,730	2819,690	7817,940	8996,130	89,490	216,870	9434,640	7820,970	9592,460	1718,900
3	7398,360	,000	75,880	395,470	682,500	2369,020	235,620	9627,750	8019,810	1483,050	33,780	309,330	7356,050	8746,270	357,160	444,810	415,820	3713,420
5	8077,480	75,880	,000	134,650	790,860	3208,620	137,700	10445,090	8542,230	1564,390	12,260	96,670	7921,230	9265,090	108,520	490,990	140,700	4458,300
7	9505,590	395,470	134,650	,000	1214,090	4595,330	267,010	12099,900	9792,260	2044,900	200,970	14,040	9167,960	10569,740	4,590	609,380	33,970	5636,030
9	3993,220	682,500	790,860	1214,090	,000	1934,220	349,480	5726,710	4258,850	188,910	715,320	1022,350	3783,270	4840,990	1205,780	800,690	1319,420	1826,420
11	3547,100	2369,020	3208,620	4595,330	1934,220	,000	3073,340	4655,550	4690,790	2305,250	2904,220	4232,750	4053,630	5217,890	4479,380	3124,590	4642,240	1152,680
13	6588,660	235,620	137,700	267,010	349,480	3073,340	,000	8777,710	6856,970	853,310	146,400	190,110	6322,230	7523,390	260,260	468,330	314,700	3623,980
15	165,990	9627,750	10445,090	12099,900	5726,710	4655,550	8777,710	,000	313,380	4315,500	10137,830	11530,260	334,940	300,580	12013,350	10116,060	12190,110	2553,730
17	137,730	8019,810	8542,230	9792,260	4258,850	4690,790	6856,970	313,380	,000	2889,780	8330,050	9305,700	46,340	41,080	9745,490	8289,840	9896,230	2321,130
19	2819,690	1483,050	1564,390	2044,900	188,910	2305,250	853,310	4315,500	2889,780	,000	1509,030	1833,260	2580,340	3327,180	2027,650	1716,460	2109,810	1754,230
21	7817,940	33,780	12,260	200,970	715,320	2904,220	146,400	10137,830	8330,050	1509,030	,000	141,750	7682,030	9068,870	176,580	394,530	230,380	4111,740
23	8996,130	309,330	96,670	14,040	1022,350	4232,750	190,110	11530,260	9305,700	1833,260	141,750	,000	8669,040	10087,980	21,930	463,380	68,990	5155,130
25	89,490	7356,050	7921,230	9167,960	3783,270	4053,630	6322,230	334,940	46,340	2580,340	7682,030	8669,040	,000	168,300	9132,650	7479,220	9319,470	1740,890
27	216,870	8746,270	9265,090	10569,740	4840,990	5217,890	7523,390	300,580	41,080	3327,180	9068,870	10087,980	168,300	,000	10504,550	9210,920	10619,010	2896,470
29	9434,640	357,160	108,520	4,590	1205,780	4479,380	260,260	12013,350	9745,490	2027,650	176,580	21,930	9132,650	10504,550	,000	658,250	16,900	5632,460
31	7820,970	444,810	490,990	609,380	800,690	3124,590	468,330	10116,060	8289,840	1716,460	394,530	463,380	7479,220	9210,920	658,250	,000	867,470	3369,890
33	9592,460	415,820	140,700	33,970	1319,420	4642,240	314,700	12190,110	9896,230	2109,810	230,380	68,990	9319,470	10619,010	16,900	867,470	,000	5958,440
35	1718,900	3713,420	4458,300	5636,030	1826,420	1152,680	3623,980	2553,730	2321,130	1754,230	4111,740	5155,130	1740,890	2896,470	5632,460	3369,890	5958,440	,000

This is a dissimilarity matrix

ANEXO II – MATRIZ DE DADOS 2010

Proximity Matrix

Case	Squared Euclidean Distance																	
	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
2	,000	8149,310	8130,150	10520,260	7763,630	1330,650	5561,630	105,950	396,650	3383,870	8260,860	9556,750	66,760	85,380	7934,280	7784,530	9730,670	721,470
4	8149,310	,000	41,520	366,890	32,180	6196,220	309,780	9654,780	6406,680	1178,500	15,970	159,820	8534,170	7937,190	192,190	75,140	372,820	4568,020
6	8130,150	41,520	,000	362,250	86,300	6031,220	390,300	9550,500	6589,240	1244,380	15,970	217,740	8570,930	7913,950	145,590	214,500	314,140	4683,620
8	10520,260	366,890	362,250	,000	323,450	8936,670	882,350	12195,190	8789,910	2039,530	375,980	63,750	10781,700	9997,620	196,900	583,650	37,930	6703,510
10	7763,630	32,180	86,300	323,450	,000	6191,720	201,500	9271,420	6077,900	962,280	58,350	125,020	8070,490	7484,410	127,470	72,500	313,560	4319,140
12	1330,650	6196,220	6031,220	8936,670	6191,720	,000	4642,700	1464,780	1382,540	3238,200	6152,490	7989,260	1956,470	1865,910	6583,170	6073,860	8269,560	1004,420
14	5561,630	309,780	390,300	882,350	201,500	4642,700	,000	6888,720	4140,780	293,860	378,490	555,820	5775,010	5297,730	339,310	252,740	765,820	2756,620
16	105,950	9654,780	9550,500	12195,190	9271,420	1464,780	6888,720	,000	866,420	4460,180	9739,250	11216,580	222,210	235,730	9354,270	9358,540	11286,140	1305,460
18	396,650	6406,680	6589,240	8789,910	6077,900	1382,540	4140,780	866,420	,000	2393,460	6584,350	7726,380	437,550	550,290	6571,330	5846,220	8240,580	186,020
20	3383,870	1178,500	1244,380	2039,530	962,280	3238,200	293,860	4460,180	2393,460	,000	1264,830	1598,580	3503,010	3128,050	1065,310	1040,740	1769,040	1418,860
22	8260,860	15,970	15,970	375,980	58,350	6152,490	378,490	9739,250	6584,350	1264,830	,000	195,470	8690,500	8068,580	197,100	130,490	368,070	4682,870
24	9556,750	159,820	217,740	63,750	125,020	7989,260	555,820	11216,580	7726,380	1598,580	195,470	,000	9818,050	9133,870	146,790	268,680	115,740	5778,320
26	66,760	8534,170	8570,930	10781,700	8070,490	1956,470	5775,010	222,210	437,550	3503,010	8690,500	9818,050	,000	42,300	8213,960	8102,310	9997,410	885,730
28	85,380	7937,190	7913,950	9997,620	7484,410	1865,910	5297,730	235,730	550,290	3128,050	8068,580	9133,870	42,300	,000	7507,940	7608,090	9196,570	875,670
30	7934,280	192,190	145,590	196,900	127,470	6583,170	339,310	9354,270	6571,330	1065,310	197,100	146,790	8213,960	7507,940	,000	386,290	100,510	4765,750
32	7784,530	75,140	214,500	583,650	72,500	6073,860	252,740	9358,540	5846,220	1040,740	130,490	268,680	8102,310	7608,090	386,290	,000	638,620	4141,480
34	9730,670	372,820	314,140	37,930	313,560	8269,560	765,820	11286,140	8240,580	1769,040	368,070	115,740	9997,410	9196,570	100,510	638,620	,000	6223,060
36	721,470	4568,020	4683,620	6703,510	4319,140	1004,420	2756,620	1305,460	186,020	1418,860	4682,870	5778,320	885,730	875,670	4765,750	4141,480	6223,060	,000

This is a dissimilarity matrix

ANEXO III – MATRIZ DE DADOS 1990 (16 PAÍSES)

Proximity Matrix

Case	Squared Euclidean Distance															
	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31
1	,000	7398,360	8077,480	9505,590	3993,220	6588,660	165,990	137,730	2819,690	7817,940	8996,130	89,490	216,870	9434,640	7820,970	9592,460
3	7398,360	,000	75,880	395,470	682,500	235,620	9627,750	8019,810	1483,050	33,780	309,330	7356,050	8746,270	357,160	444,810	415,820
5	8077,480	75,880	,000	134,650	790,860	137,700	10445,090	8542,230	1564,390	12,260	96,670	7921,230	9265,090	108,520	490,990	140,700
7	9505,590	395,470	134,650	,000	1214,090	267,010	12099,900	9792,260	2044,900	200,970	14,040	9167,960	10569,740	4,590	609,380	33,970
9	3993,220	682,500	790,860	1214,090	,000	349,480	5726,710	4258,850	188,910	715,320	1022,350	3783,270	4840,990	1205,780	800,690	1319,420
11	6588,660	235,620	137,700	267,010	349,480	,000	8777,710	6856,970	853,310	146,400	190,110	6322,230	7523,390	260,260	468,330	314,700
13	165,990	9627,750	10445,090	12099,900	5726,710	8777,710	,000	313,380	4315,500	10137,830	11530,260	334,940	300,580	12013,350	10116,060	12190,110
15	137,730	8019,810	8542,230	9792,260	4258,850	6856,970	313,380	,000	2889,780	8330,050	9305,700	46,340	41,080	9745,490	8289,840	9896,230
17	2819,690	1483,050	1564,390	2044,900	188,910	853,310	4315,500	2889,780	,000	1509,030	1833,260	2580,340	3327,180	2027,650	1716,460	2109,810
19	7817,940	33,780	12,260	200,970	715,320	146,400	10137,830	8330,050	1509,030	,000	141,750	7682,030	9068,870	176,580	394,530	230,380
21	8996,130	309,330	96,670	14,040	1022,350	190,110	11530,260	9305,700	1833,260	141,750	,000	8669,040	10087,980	21,930	463,380	68,990
23	89,490	7356,050	7921,230	9167,960	3783,270	6322,230	334,940	46,340	2580,340	7682,030	8669,040	,000	168,300	9132,650	7479,220	9319,470
25	216,870	8746,270	9265,090	10569,740	4840,990	7523,390	300,580	41,080	3327,180	9068,870	10087,980	168,300	,000	10504,550	9210,920	10619,010
27	9434,640	357,160	108,520	4,590	1205,780	260,260	12013,350	9745,490	2027,650	176,580	21,930	9132,650	10504,550	,000	658,250	16,900
29	7820,970	444,810	490,990	609,380	800,690	468,330	10116,060	8289,840	1716,460	394,530	463,380	7479,220	9210,920	658,250	,000	867,470
31	9592,460	415,820	140,700	33,970	1319,420	314,700	12190,110	9896,230	2109,810	230,380	68,990	9319,470	10619,010	16,900	867,470	,000

This is a dissimilarity matrix

ANEXO IV – MATRIZ DE DADOS 2010 (16 PAÍSES)

Proximity Matrix

Case	Squared Euclidean Distance															
	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
2	,000	8149,310	8130,150	10520,260	7763,630	5561,630	105,950	396,650	3383,870	8260,860	9556,750	66,760	85,380	7934,280	7784,530	9730,670
4	8149,310	,000	41,520	366,890	32,180	309,780	9654,780	6406,680	1178,500	15,970	159,820	8534,170	7937,190	192,190	75,140	372,820
6	8130,150	41,520	,000	362,250	86,300	390,300	9550,500	6589,240	1244,380	15,970	217,740	8570,930	7913,950	145,590	214,500	314,140
8	10520,260	366,890	362,250	,000	323,450	882,350	12195,190	8789,910	2039,530	375,980	63,750	10781,700	9997,620	196,900	583,650	37,930
10	7763,630	32,180	86,300	323,450	,000	201,500	9271,420	6077,900	962,280	58,350	125,020	8070,490	7484,410	127,470	72,500	313,560
12	5561,630	309,780	390,300	882,350	201,500	,000	6888,720	4140,780	293,860	378,490	555,820	5775,010	5297,730	339,310	252,740	765,820
14	105,950	9654,780	9550,500	12195,190	9271,420	6888,720	,000	866,420	4460,180	9739,250	11216,580	222,210	235,730	9354,270	9358,540	11286,140
16	396,650	6406,680	6589,240	8789,910	6077,900	4140,780	866,420	,000	2393,460	6584,350	7726,380	437,550	550,290	6571,330	5846,220	8240,580
18	3383,870	1178,500	1244,380	2039,530	962,280	293,860	4460,180	2393,460	,000	1264,830	1598,580	3503,010	3128,050	1065,310	1040,740	1769,040
20	8260,860	15,970	15,970	375,980	58,350	378,490	9739,250	6584,350	1264,830	,000	195,470	8690,500	8068,580	197,100	130,490	368,070
22	9556,750	159,820	217,740	63,750	125,020	555,820	11216,580	7726,380	1598,580	195,470	,000	9818,050	9133,870	146,790	268,680	115,740
24	66,760	8534,170	8570,930	10781,700	8070,490	5775,010	222,210	437,550	3503,010	8690,500	9818,050	,000	42,300	8213,960	8102,310	9997,410
26	85,380	7937,190	7913,950	9997,620	7484,410	5297,730	235,730	550,290	3128,050	8068,580	9133,870	42,300	,000	7507,940	7608,090	9196,570
28	7934,280	192,190	145,590	196,900	127,470	339,310	9354,270	6571,330	1065,310	197,100	146,790	8213,960	7507,940	,000	386,290	100,510
30	7784,530	75,140	214,500	583,650	72,500	252,740	9358,540	5846,220	1040,740	130,490	268,680	8102,310	7608,090	386,290	,000	638,620
32	9730,670	372,820	314,140	37,930	313,560	765,820	11286,140	8240,580	1769,040	368,070	115,740	9997,410	9196,570	100,510	638,620	,000

This is a dissimilarity matrix

