

Appendix B

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This appendix show another six experiments that check if there is similar between two algorithms or not , the sex experiments are intersection between (9,10) , (9,11) , (10,11) , (10 , 9) , (11 , 9) , (11,10) used in the experiments of Chapter 3 .

Table B.1 Intersections between K-Means “9 clusters” and Two-Step “10 clusters”

\$ K-Means / \$TwoStep	Cluster-1	Cluster-2	Cluster-3	Cluster-4	Cluster-5	Cluster-6	Cluster-7	Cluster-8	Cluster-9	Cluster-10
Cluster-1	11315	10549	191	11599	9227	10126	492	16481	8412	6474
Cluster-2	5634	3904	1479	5172	3599	4934	1034	5755	3527	2716
Cluster-3	408	4	0	7	179	636	14576	157	225	181
Cluster-4	6337	0	16828	2992	4479	3485	84	0	4977	2700
Cluster-5	12320	10663	4323	12978	11172	7682	285	18420	10445	6879
Cluster-6	5855	1997	9999	3682	5414	5651	590	3873	4385	3648
Cluster-7	6603	4867	35	6799	6326	9055	1840	9399	4124	5388
Cluster-8	7739	4624	2047	6903	6642	11475	632	8870	4729	5992
Cluster-9	6377	5505	0	6153	5444	6285	210	9778	4694	3898

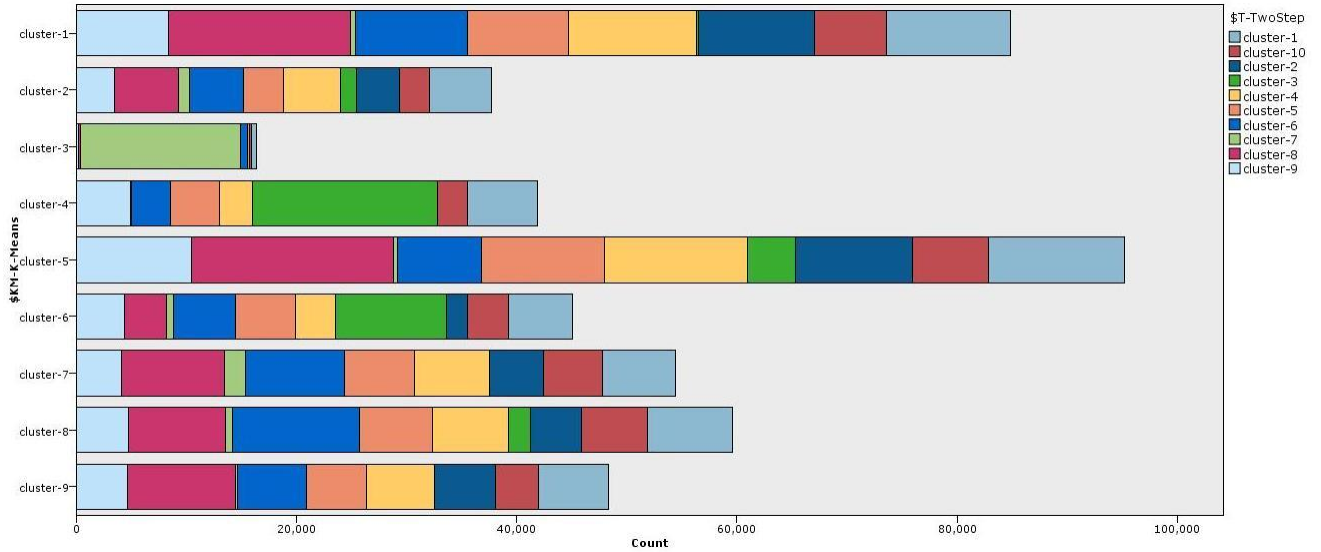


Figure B.1 Intersections between K-Means “9 clusters” and Two-Step “10 clusters”

Table B.2 Intersections between K-Means “9 clusters” and Two-Step “11 clusters”

\$ K-Means / \$TwoStep	Cluster-1	Cluster-2	Cluster-3	Cluster-4	Cluster-5	Cluster-6	Cluster-7	Cluster-8	Cluster-9	Cluster-10	Cluster-11
Cluster-1	6290	10549	191	11599	9231	10014	516	16481	8412	6474	5109
Cluster-2	3115	3904	1479	5172	3599	4912	1020	5755	3527	2716	2555
Cluster-3	71	4	0	7	179	636	14378	157	225	181	535
Cluster-4	3192	0	16828	2992	4492	3475	119	0	4977	2700	3107
Cluster-5	6313	10663	4323	12978	11185	7670	294	18420	10445	6879	5997
Cluster-6	3144	1997	9999	3682	5425	5579	606	3873	4385	3648	2756
Cluster-7	3415	4867	35	6799	6329	8990	1808	9399	4124	5388	3282
Cluster-8	3975	4624	2047	6903	6657	11270	664	8870	4729	5992	3922
Cluster-9	3373	5505	0	6153	5447	6176	227	9778	4694	3898	3093

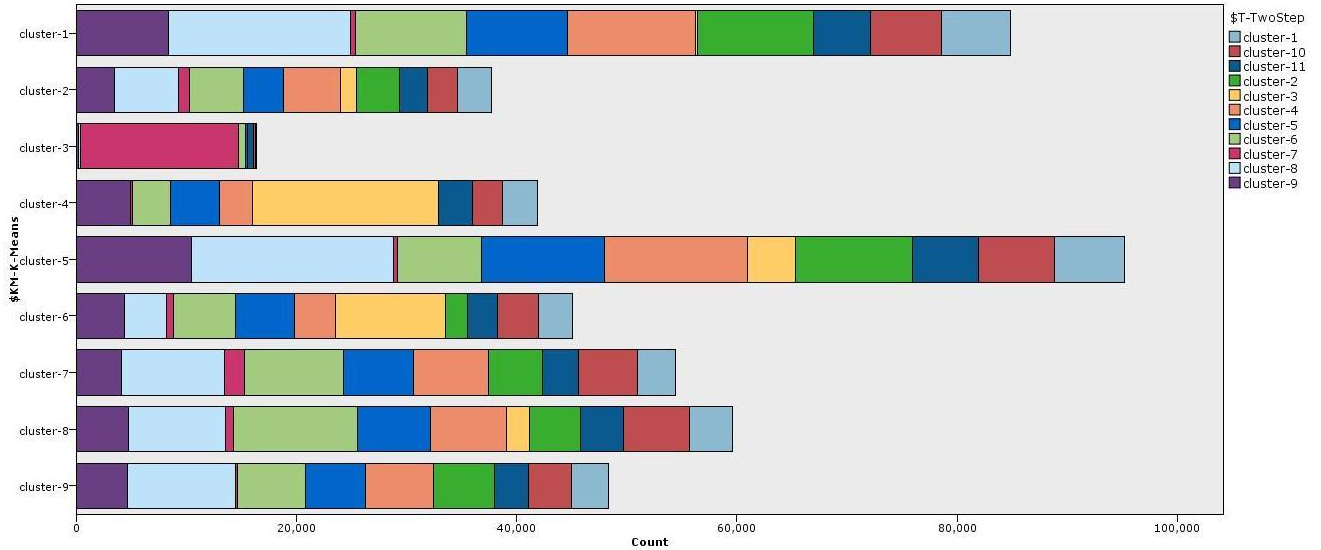


Figure B.2 Intersections between K-Means “9 clusters” and Two-Step “11 clusters”

Table B.3 Intersections between K-Means “10 clusters” and Two-Step “11 clusters”

\$ K-Means / \$TwoStep	Cluster-1	Cluster-2	Cluster-3	Cluster-4	Cluster-5	Cluster-6	Cluster-7	Cluster-8	Cluster-9	Cluster-10	Cluster-11
Cluster-1	5646	9218	1814	10302	7948	7891	355	14078	7925	5380	4771
Cluster-2	2777	3904	66	4570	3167	4596	1148	5752	3026	2475	2255
Cluster-3	23	0	1	2	28	58	12270	40	111	9	379
Cluster-4	1904	1895	1770	3927	4724	7318	737	5190	2497	4280	2370
Cluster-5	6259	10655	4322	12955	11140	7692	362	18399	10430	6858	5943
Cluster-6	2435	3329	4	4811	4817	6370	1314	6359	2774	3658	1906
Cluster-7	1898	2975	71	3393	2403	2858	2204	4241	2189	1813	1419
Cluster-8	3555	4632	156	6224	6171	10829	786	8896	4104	5601	3489
Cluster-9	3625	5505	1476	6592	5842	6357	226	9778	5187	4083	3349
Cluster-10	4766	0	25222	3509	6304	4753	230	0	7275	3719	4475

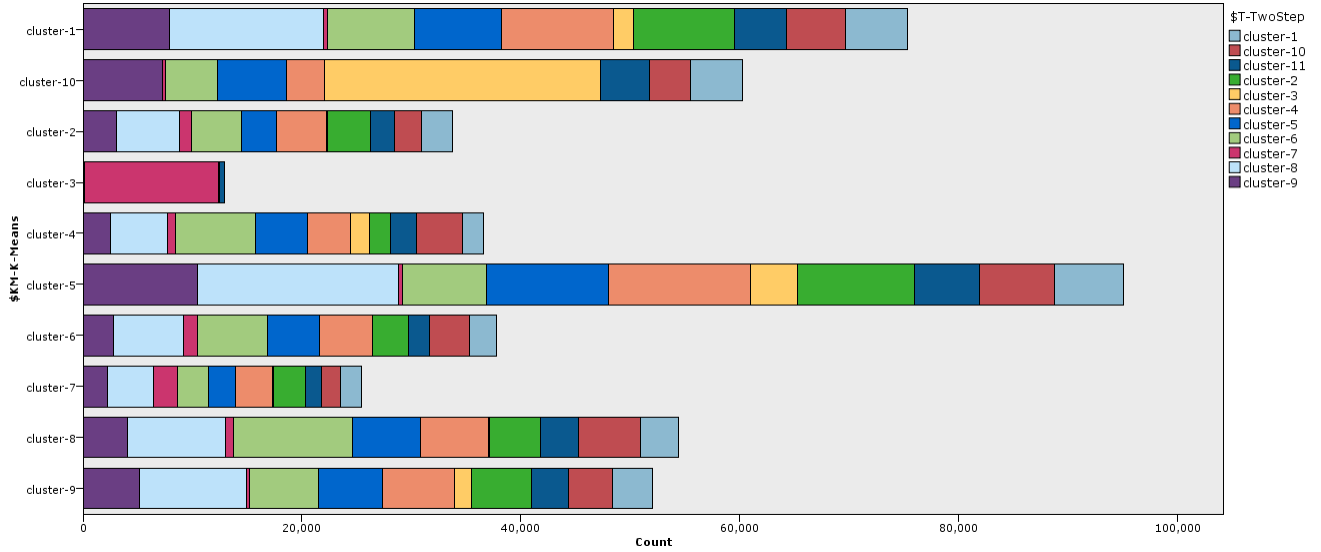


Figure B.3 Intersections between K-Means “10 clusters” and Two-Step “11 clusters”

Table B.4 Intersections between K-Means “10 clusters” and Two-Step “9 clusters”

\$ K-Means / \$TwoStep	Cluster-1	Cluster-2	Cluster-3	Cluster-4	Cluster-5	Cluster-6	Cluster-7	Cluster-8	Cluster-9
Cluster-1	10368	17094	1813	10334	7967	7959	335	14078	5380
Cluster-2	4992	6905	59	4570	3193	4622	1168	5752	2475
Cluster-3	224	61	1	2	28	58	12498	40	9
Cluster-4	4226	4382	1769	3927	4727	7366	745	5190	4280
Cluster-5	12209	21018	4319	12999	11156	7702	355	18399	6858
Cluster-6	4226	6077	3	4811	4843	6480	1320	6359	3658
Cluster-7	3253	5110	63	3404	2409	2882	2289	4241	1813
Cluster-8	6881	8755	156	6224	6146	11031	753	8896	5601
Cluster-9	6886	10660	1474	6595	5870	6466	208	9778	4083
Cluster-10	9323	7293	25200	3510	6277	4760	171	0	3719

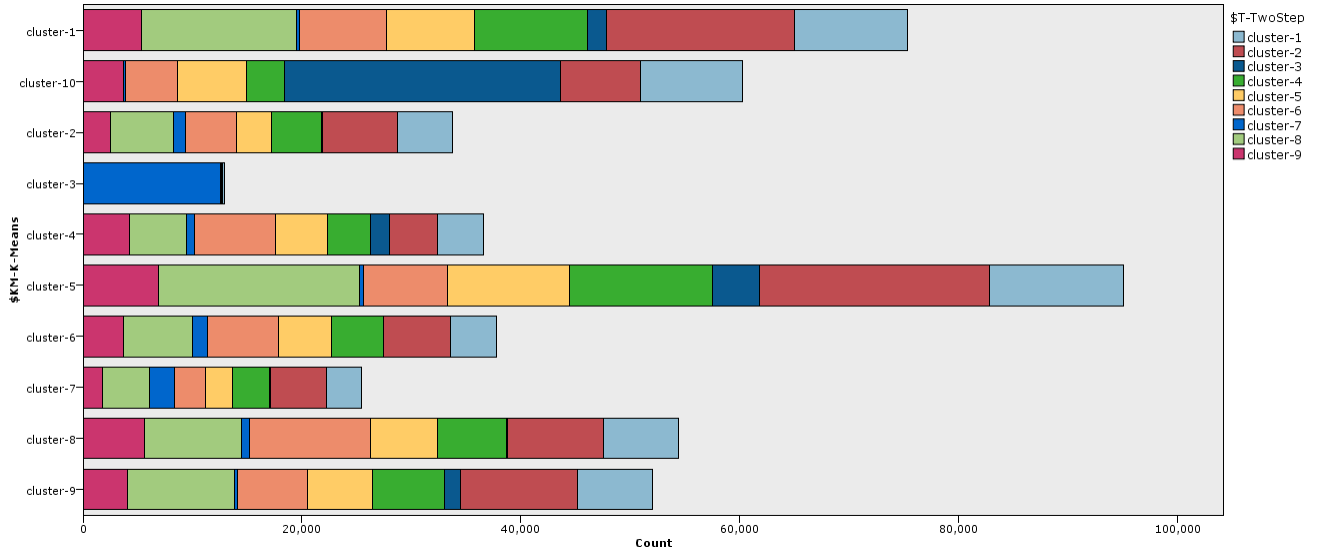


Figure B.4 Intersections between K-Means “10 clusters” and Two-Step “9 clusters”

Table B.5 Intersections between K-Means “11 clusters” and Two-Step “9 clusters”

\$ K-Means / \$TwoStep	Cluster-1	Cluster-2	Cluster-3	Cluster-4	Cluster-5	Cluster-6	Cluster-7	Cluster-8	Cluster-9
Cluster-1	6338	11319	2383	6449	5162	3269	160	9185	2943
Cluster-10	9186	7092	24503	3511	6137	4779	149	0	3700
Cluster-11	1793	1889	45	1585	1911	2424	6599	2294	1408
Cluster-2	4925	6894	28	4559	3167	4607	1213	5752	2463
Cluster-3	0	0	0	0	0	0	4090	0	0
Cluster-4	4244	4390	1773	3928	4731	7380	1332	5190	4284
Cluster-5	11786	20398	4319	12498	10640	7363	204	17678	6534
Cluster-6	5884	8398	117	5715	4704	7159	1655	7327	3844
Cluster-7	3272	5105	65	3406	2408	2884	3789	4241	1814
Cluster-8	8274	11210	150	8130	7886	12995	439	11288	6803
Cluster-9	6886	10660	1474	6595	5870	6466	212	9778	4083

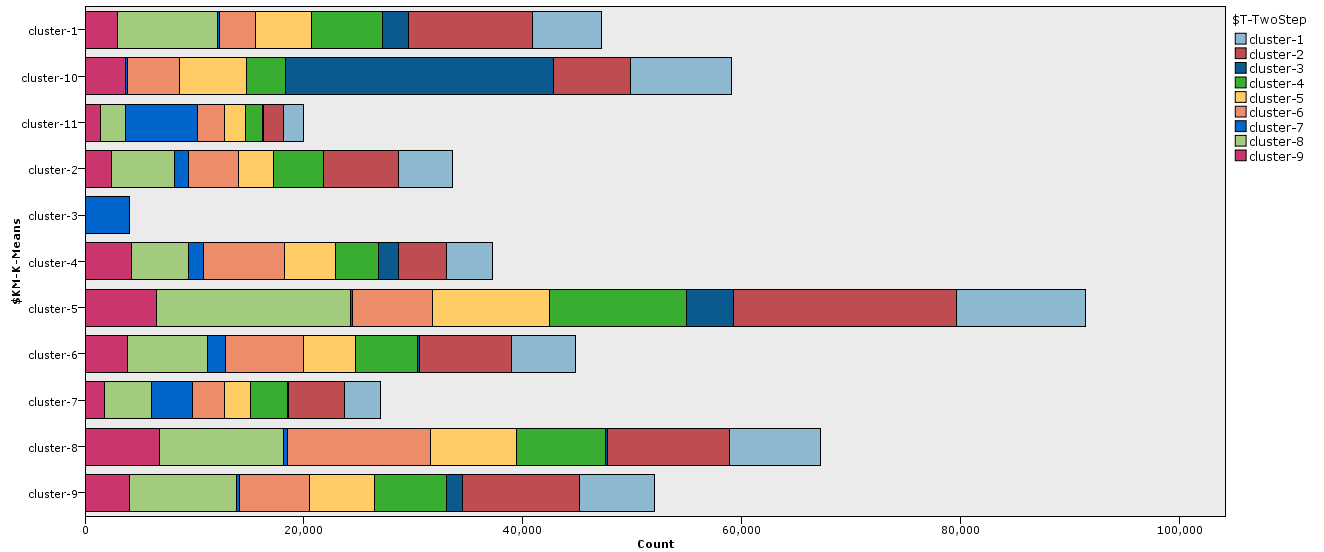


Figure B.5 Intersections between K-Means “11 clusters” and Two-Step “9 clusters”

Table B.6 Intersections between K-Means “11 clusters” and Two-Step “10 clusters”

\$ K-Means / \$TwoStep	Cluster-1	Cluster-10	Cluster-2	Cluster-3	Cluster-4	Cluster-5	Cluster-6	Cluster-7	Cluster-8	Cluster-9
Cluster-1	6338	2943	5796	2383	6417	5167	3269	164	9185	5546
Cluster-10	9186	3700	0	24525	3510	6138	4779	145	0	7074
Cluster-11	1793	1408	998	45	1585	1890	2425	6561	2294	949
Cluster-2	4925	2463	3904	35	4559	3141	4606	1207	5752	3016
Cluster-3	0	0	0	0	0	0	0	4090	0	0
Cluster-4	4244	4284	1895	1774	3928	4723	7381	1326	5190	2507
Cluster-5	11786	6534	10300	4322	12454	10610	7363	206	17678	10167
Cluster-6	5884	3844	4753	119	5715	4675	7161	1655	7327	3670
Cluster-7	3272	1814	2974	73	3395	2402	2882	3733	4241	2198
Cluster-8	8274	6803	5988	150	8130	7897	12997	444	11288	5204
Cluster-9	6886	4083	5505	1476	6592	5839	6466	212	9778	5187

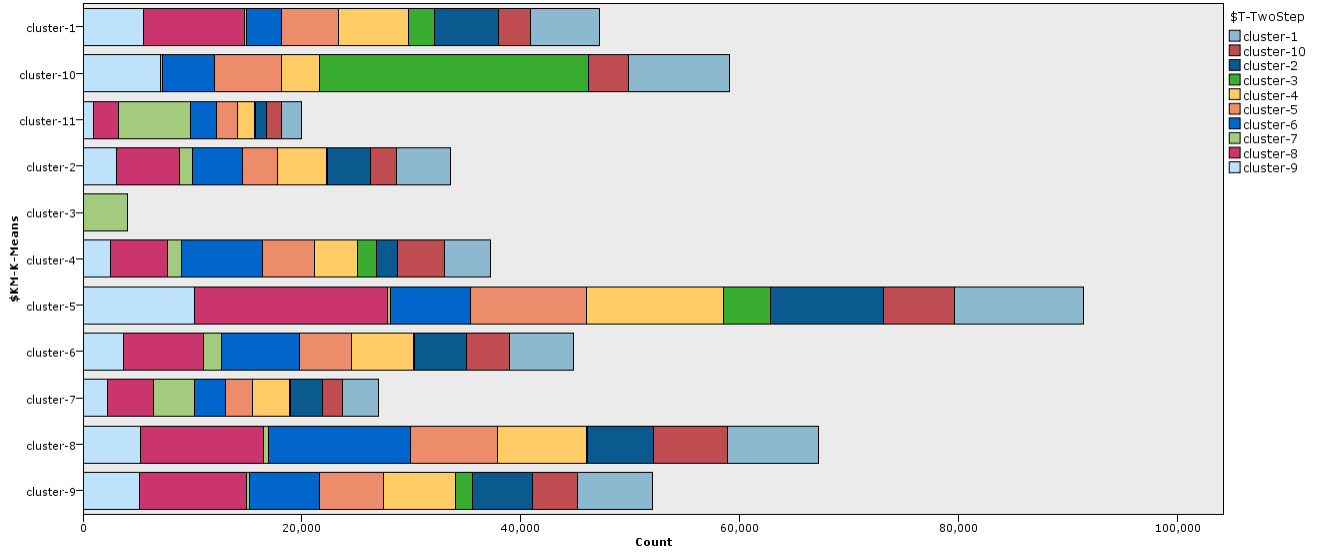


Figure B.6 Intersections between K-Means “11 clusters” and Two-Step “10 clusters”