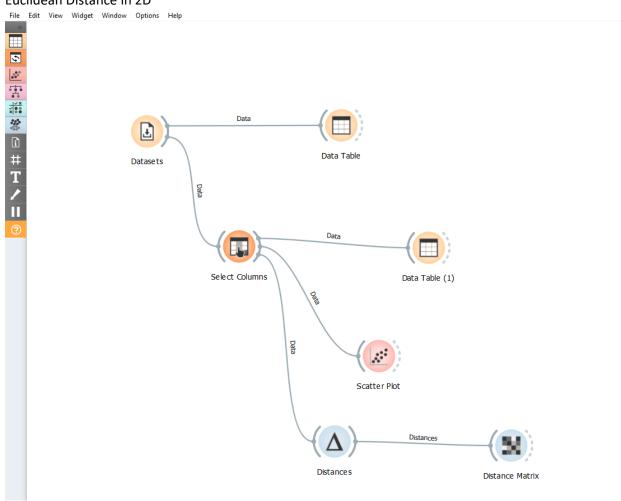
Nama: M.Rizky Fadillah

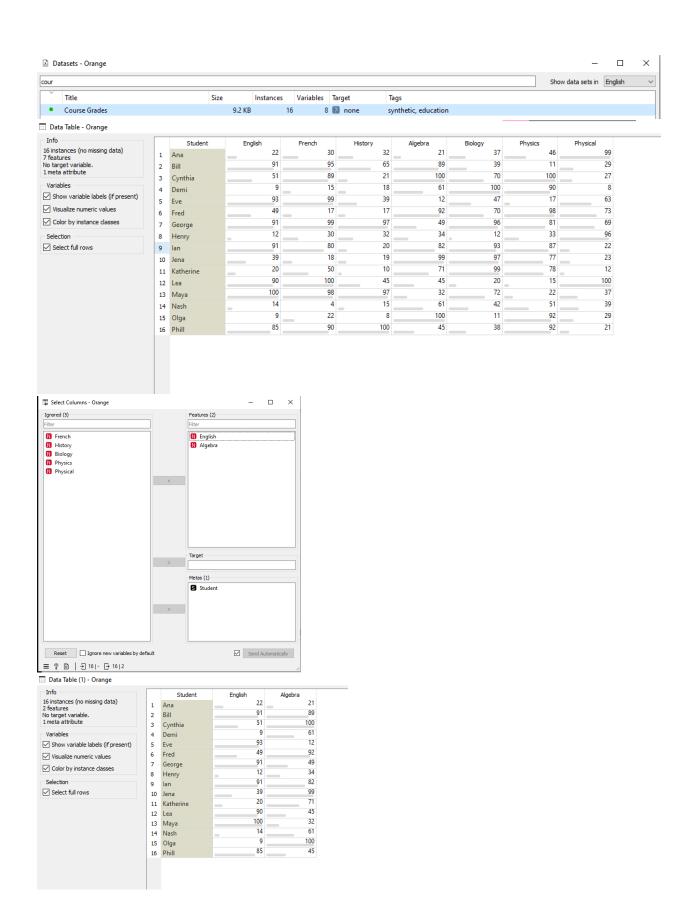
NIM: 1103210259

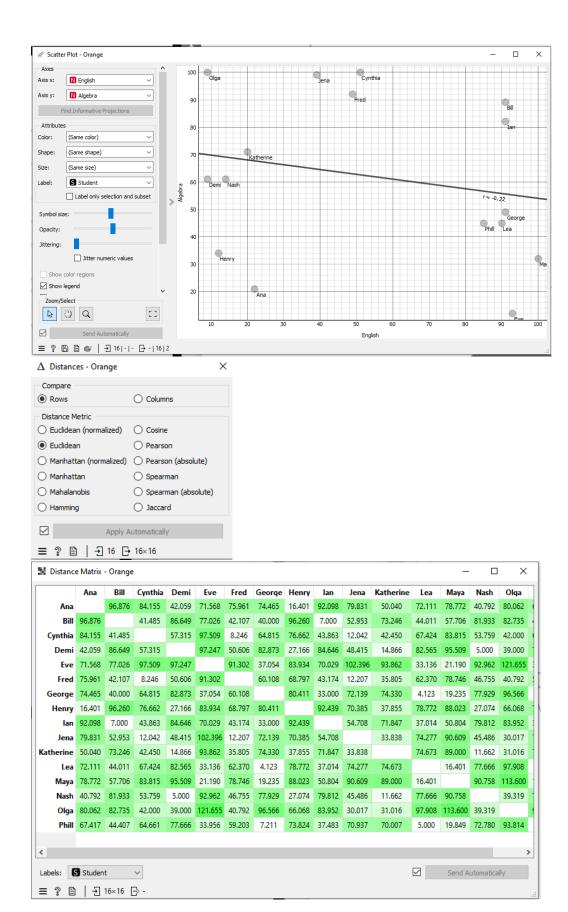
Kelas: TK-45-G03

## TUGAS 6 PEMBELAJARAN MESIN ODM DATASET

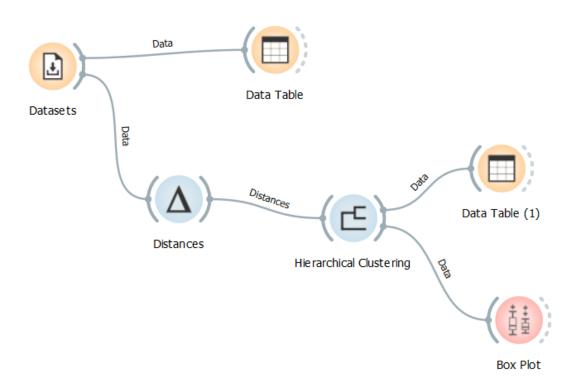
## - Euclidean Distance in 2D



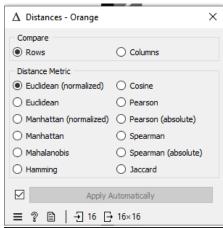


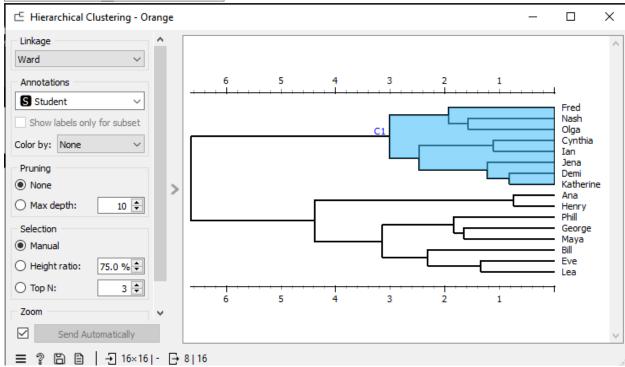


## - Explaining Clusters

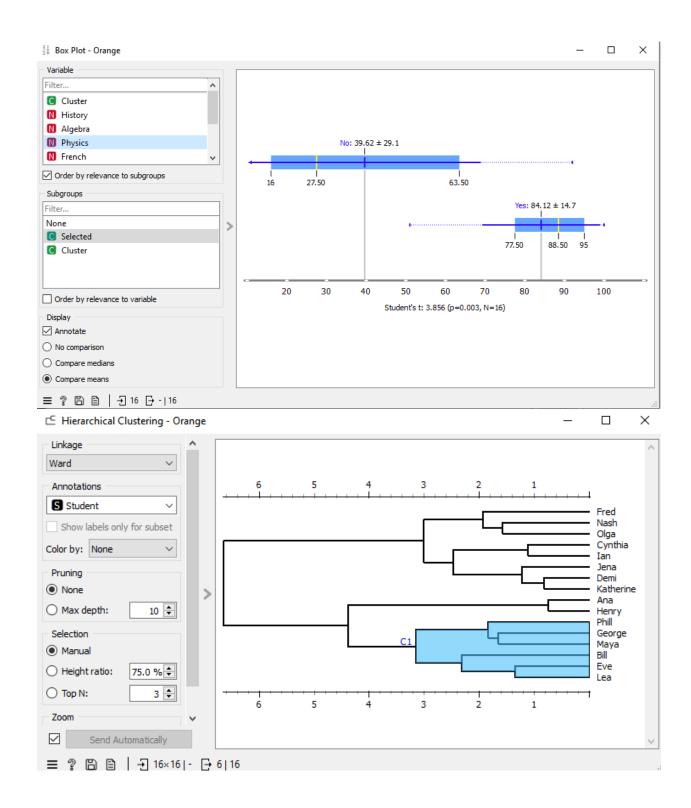


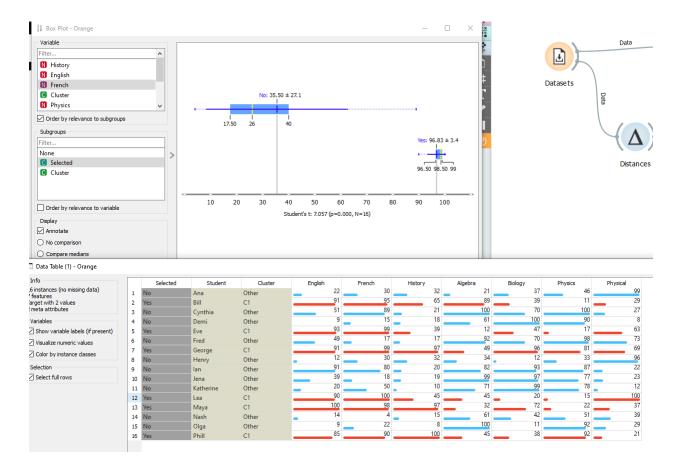
Info		Student	English	French	History	Algebra	Biology	Physics	Physical
16 instances (no missing data) 7 features	1	Ana	22	30	32	21	37	46	99
No target variable.	2	Bill	91	95	65	89	39	11	29
l meta attribute	3	Cynthia	51	89	21	100	70	100	27
Variables	4	Demi	9	15	18	61	100	90	8
Show variable labels (if present)	5	Eve	93	99	39	12	47	17	63
✓ Visualize numeric values	6	Fred	49	17	17	92	70	98	73
_	7	George	91	99	97	49	96	81	69
Color by instance classes	8	Henry	12	30	32	34	12	33	96
Selection	9	lan	91	80	20	82	93	87	22
Select full rows	10	Jena	39	18	19	99	97	77	23
	11	Katherine	20	50	10	71	99	78	12
	12	Lea	90	100	45	45	20	15	100
	13	Maya	100	98	97	32	72	22	37
	14	Nash	14	4	15	61	42	51	39
	15	Olga	9	22	8	100	11	92	29
	16	Phill	85		100	45	38	92	21



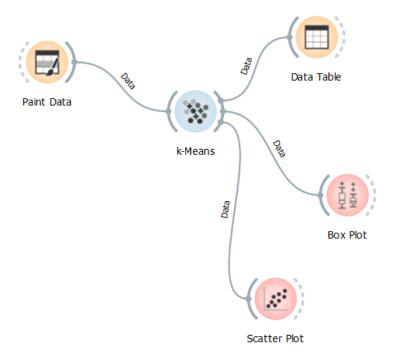


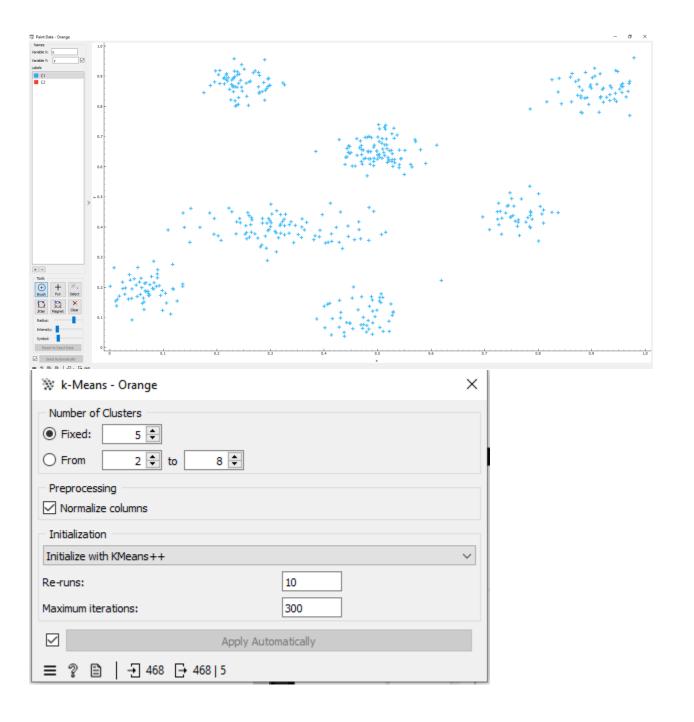
	Selected	Student	Cluster	English	French	History	Algebra	Biology	Physics	Physical
1	No	Ana	Other	22	30	32	21	37	46	99
2	No	Bill	Other	91	95	65	89	39	11	29
3	Yes	Cynthia	C1	51	89	21	100	70	100	27
4	Yes	Demi	C1	9	15	18	61	100	90	8
5	No	Eve	Other	93	99	39	12	47	17	63
6	Yes	Fred	C1	49	17	17	92	70	98	73
7	No	George	Other	91	99	97	49	96	81	69
8	No	Henry	Other	12	30	32	34	. 12	33	96
9	Yes	lan	C1	91	80	20	82	93	87	22
10	Yes	Jena	C1	39	18	19	99	97		
11	Yes	Katherine	C1	20	50	_ 10	71	99	78	12
12	No	Lea	Other	90	100	45	45	20	15	100
13	No	Maya	Other	100	98	97	32	72	22	
14	Yes	Nash	C1	14	4	15	61	42	51	39
15	Yes	Olga	C1	9		8	100	11	92	29
16	No	Phill	Other	85	90	100	45	38	92	21





## - How to choose k for k-Means?





Info		Cluster	Silhouette	x	у
68 instances (no missing data) features	1	C3	0.723241	0.295602	0.890909
lo target variable.	2	C3	0.722437	0.290363	0.852962
meta attributes	3	C3	0.731352	0.213821	0.873793
Variables	4	C3	0.722833	0.296523	0.892272
Show variable labels (if present)	5	C3	0.733381	0.231346	0.894651
Visualize numeric values	6	C3	0.732609	0.245996	0.863496
	7	C3	0.731145	0.217758	0.903241
Color by instance classes	8	C3	0.72257	0.292844	0.858431
Selection	9	C3	0.730097	0.23287	0.916826
Select full rows	10	C3	0.73267	0.229491	0.865045
	11	C3	0.727142	0.279384	0.902726
	12	C3	0.72272	0.295054	0.865176
	13	C3	0.730311	0.247187	0.85035
	14	C3	0.728255	0.202735	0.90417
	15	C3	0.726101	0.287625	0.878873
	16	C3	0.732358	0.217737	0.888626
	17	C3	0.721452	0.234248	0.818586
	18	C3	0.71669	0.23981	0.806355
	19	C3	0.719683	0.232428	0.958036
	20	C3	0.732774	0.237737	0.863136
		C3	0.731947	0.262596	0.883248
	21	C3	0.73313	0.227501	0.871733
	22		0.721866	0.226002	0.821028
	23	C3	0.73298	0.254462	0.876871
	24	C3	0.724531	0.279295	0.847027
•	25		0.730671	0.23801	0.914412
	26	C3	0.715394	0.236799	0.803107
	27	C3	0.727949	0.27766	0.86452
	28	C3	0.724806	0.246187	0.938495
	29	C3	0.732485	0.221083	0.89481
	30	C3	0.725296	0.197841	0.91806
	31	C3	0.729793	0.230904	0.848262
	32	C3	0.733168	0.233374	0.897652
	33	C3	0.71433	0.233574	0.800652
	34	C3	0.725059	0.255602	0.832739
	35	C3	0.718406	0.175593	0.845254
	36	C3	0.726511	0.173393	0.917805
	37	C3	0.733767	0.271823	0.88605
	38	C3			
	39	C3	0.723492	0.284284	0.848646
	40	C3	0.721541	0.299139	0.869055
	41	C3	0.730673	0.223675	0.856033
	42	C1	0.670309	0.498717	0.651654
	43	C1	0.680074	0.527495	0.642538
	44	C1	0.680453	0.518521	0.613655
	45	C1	0.633865	0.48072	0.697086
	46	C1	0.672066	0.509858	0.657485
	47	C1	0.659658	0.530801	0.693892
Restore Original Order	48	C1	0.631208	0.477068	0.696694
Restore Original Order	49	C1	0.663904	0.471607	0.607845
✓ Send Automatically	50	C1	0.662685	0.46975	0.616941



