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Modul 10

K -MEANS Data Clastering
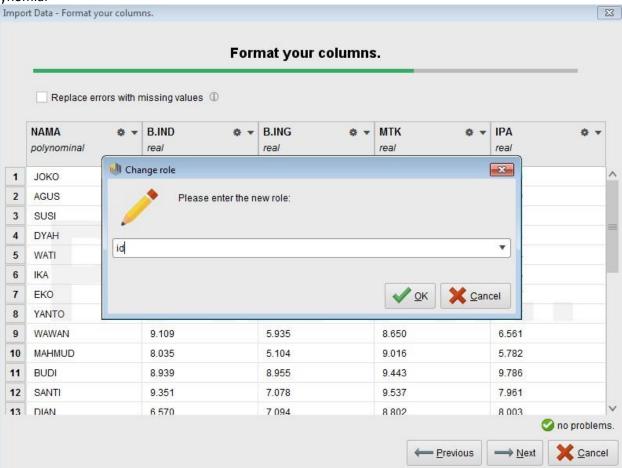
❖ **Tugas Praktikum**
  1. TABEL DATA NILAI UJIAN 30 SISWA , melakukan rumus random untuk mendapatkan nilai random percobaan dengan =5+RAND()*5, dan lakukan 2 angka di belakang koma dengan, formula number

	A	B	C	D	E	F
1	NO_SISWA	NAMA	B.IND	B.ING	MTK	IPA
2	S-101	JOKO	=5+RAND()*5			
3	S-102	AGUS				
4	S-103	SUSI				
5	S-104	DYAH				
6	S-105	WATI				
7	S-106	IKA				
8	S-107	EKO				
9	S-108	YANTO				
10	S-109	WAWAN				
11	S-110	MAHMUD				
12	S-111	BUDI				
13	S-112	SANTI				
14	S-113	DIAN				

2. Hasil sesudah melakukan number random method

NO_SISWA	NAMA	B.IND	B.ING	MTK	IPA
S-101	JOKO	6.90	6.99	8.20	5.32
S-102	AGUS	8.18	6.04	8.76	5.18
S-103	SUSI	6.22	6.17	9.46	8.49
S-104	DYAH	9.74	8.49	6.81	7.32
S-105	WATI	5.17	6.88	9.52	5.80
S-106	IKA	7.75	10.00	5.40	6.35
S-107	EKO	8.00	5.14	9.24	7.49
S-108	YANTO	9.28	8.90	7.92	8.03
S-109	WAWAN	9.11	5.93	8.65	6.56
S-110	MAHMUD	8.04	5.10	9.02	5.78
S-111	BUDI	8.94	8.96	9.44	9.79
S-112	SANTI	9.35	7.08	9.54	7.96
S-113	DIAN	6.57	7.09	8.80	8.00
S-114	DANI	6.41	7.46	8.29	9.49
S-115	AHMAD	7.37	9.68	7.35	8.99
S-116	BAYU	5.49	8.05	7.83	5.68
S-117	RISA	7.85	7.47	6.99	8.34
S-118	RANI	8.40	8.25	7.92	6.67
S-119	YANI	5.19	7.49	5.24	7.40
S-120	RATIH	5.90	7.07	8.58	6.98
S-121	INDAH	7.85	9.53	8.83	6.38
S-122	JONO	6.28	9.08	6.75	8.03
S-123	SARAH	9.33	9.72	5.07	8.03
S-124	RAMA	8.55	8.00	5.20	8.48
S-125	BAMBANG	7.23	5.83	9.70	5.55
S-126	HADI	7.99	6.82	6.85	7.61
S-127	NANA	7.62	5.86	6.45	6.59
S-128	FEBRI	8.35	7.49	9.48	9.45
S-129	DENI	8.02	7.91	7.67	5.69
S-130	TONI	6.77	9.78	8.59	6.97

3. Meltakan label di nama dengan label id dan type polynomial

4. Melakukan proses Clustering K-MEANS

5. PENGELOMPOKAN SISWA SESUAI CLUSTER

CLUSTER 0

NAMA	CLUSTER	B.IND	B.ING	MTK	IPA
DYAH	cluster_0	9.74	8.49	6.81	7.32
IKA	cluster_0	7.75	10.00	5.40	6.35
YANTO	cluster_0	9.28	8.90	7.92	8.03
AHMAD	cluster_0	7.37	9.68	7.35	8.99
RISA	cluster_0	7.85	7.47	6.99	8.34
RANI	cluster_0	8.40	8.25	7.92	6.67
YANI	cluster_0	5.19	7.49	5.24	7.40
JONO	cluster_0	6.28	9.08	6.75	8.03
SARAH	cluster_0	9.33	9.72	5.07	8.03
RAMA	cluster_0	8.55	8.00	5.20	8.48
HADI	cluster_0	7.99	6.82	6.85	7.61

CLUSTER 1

NAMA	CLUSTER	B.IND	B.ING	MTK	IPA
JOKO	cluster_1	6.90	6.99	8.20	5.32
WATI	cluster_1	5.17	6.88	9.52	5.80
BAYU	cluster_1	5.49	8.05	7.83	5.68
RATIH	cluster_1	5.90	7.07	8.58	6.98
INDAH	cluster_1	7.85	9.53	8.83	6.38
DENI	cluster_1	8.02	7.91	7.67	5.69
TONI	cluster_1	6.77	9.78	8.59	6.97

CLUSTER 2

NAMA	CLUSTER	B.IND	B.ING	MTK	IPA
SUSI	cluster_2	6.22	6.17	9.46	8.49
BUDI	cluster_2	8.94	8.96	9.44	9.79
DIAN	cluster_2	6.57	7.09	8.80	8.00
DANI	cluster_2	6.41	7.46	8.29	9.49
FEBRI	cluster_2	8.35	7.49	9.48	9.45

CLUSTER 3

NAMA	CLUSTER	B.IND	B.ING	MTK	IPA
AGUS	cluster_3	8.18	6.04	8.76	5.18
EKO	cluster_3	8.00	5.14	9.24	7.49
WAWAN	cluster_3	9.11	5.93	8.65	6.56
MAHMUD	cluster_3	8.04	5.10	9.02	5.78
SANTI	cluster_3	9.35	7.08	9.54	7.96
BAMBANG	cluster_3	7.23	5.83	9.70	5.55
NANA	cluster_3	7.62	5.86	6.45	6.59