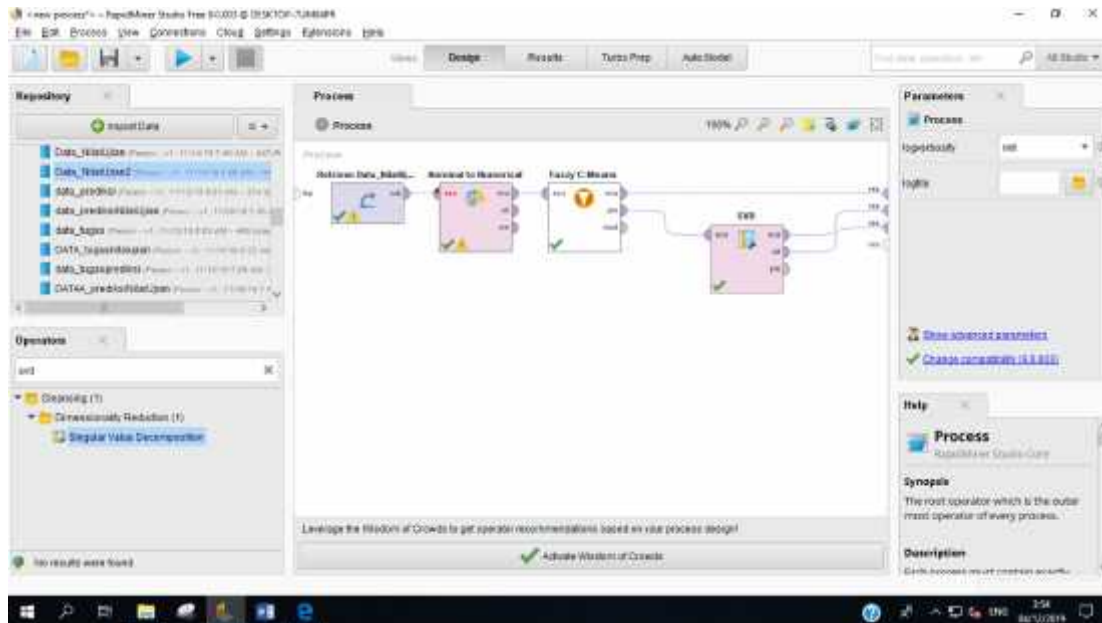


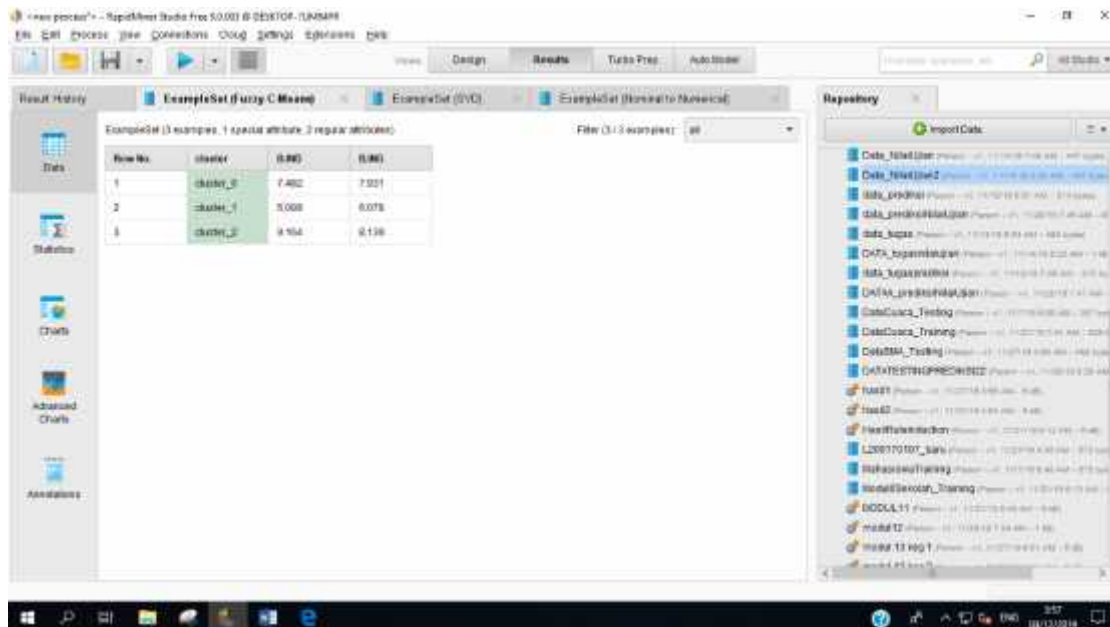
NAMA : JESSICA GUSTIN RAHAJENG  
 NIM : L200170026  
 KELAS : B

## MODUL 14 ALGORITMA CLUSTERING FUZZY C-MEANS (FCM)

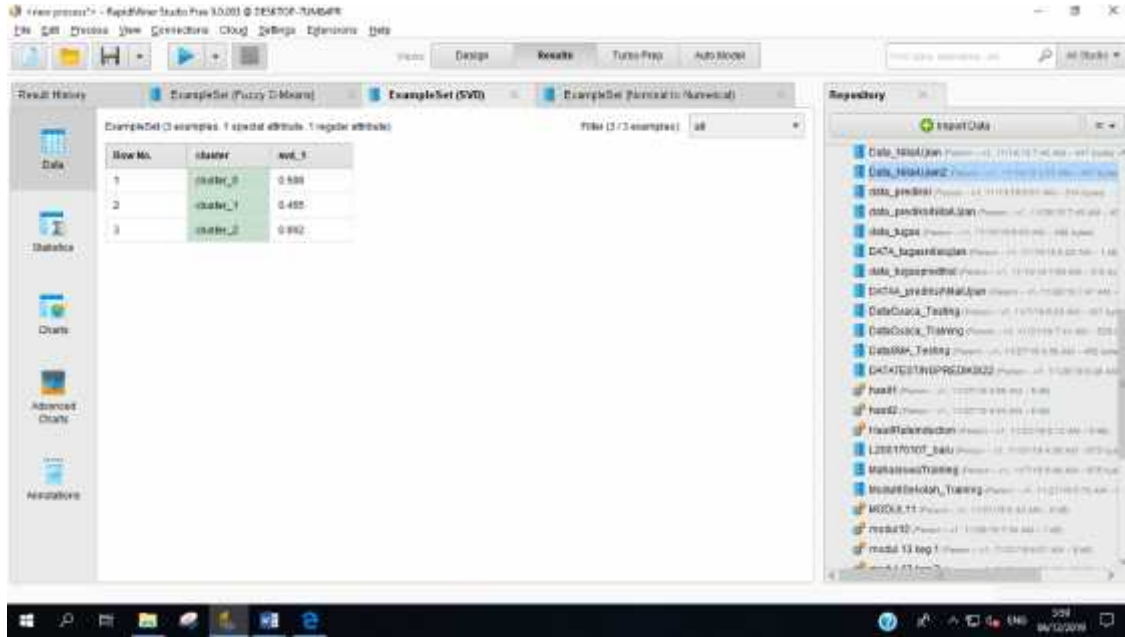
### ➔ MENAMBAH OPERATOR



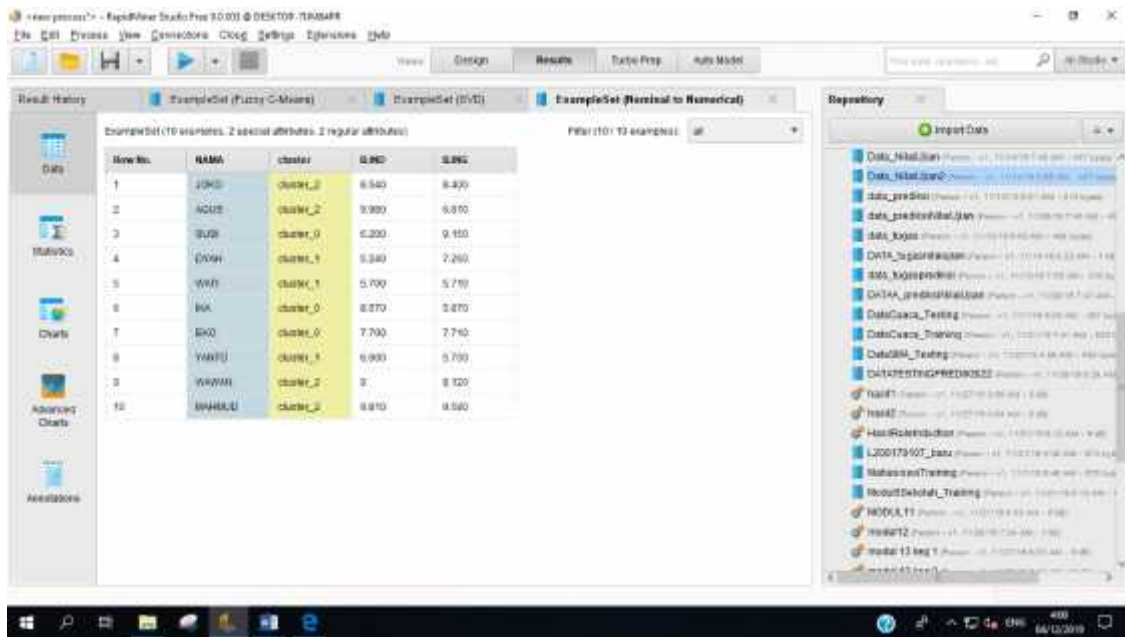
### ➔ HASIL FUZZY C-MEANS



➔ HASIL SVD



➔ HASIL NOMINAL TO NUMERICAL



## TUGAS

The screenshot shows the RapidMiner Design view. The workflow consists of the following steps:

- Import Data**: Connects to a local repository.
- Remove Outliers**: Removes outliers from the dataset.
- Remove to Numerical**: Converts categorical features to numerical.
- Fuzzy C-Means**: The main clustering process.
- Save**: Saves the results of the clustering.

The **Parameters** panel for the **Fuzzy C-Means** process is visible on the right:

- add cluster outliers**: ☐ (unchecked)
- add as label**: ☐ (unchecked)
- Clusters**: 4
- Iterations**: 50
- measure type**: MinDistance
- mixed measure**: MinDistance

The **Help** panel for **Fuzzy C-Means** is also visible, showing a synopsis and description.

The screenshot shows the Results view of the RapidMiner workflow. The table displays 20 samples with 7 attributes and 3 clusters. The attributes are: Row ID, ID, cluster, RMSE, F100, F100, RMSE, and RMSE.

Row ID	ID	cluster	RMSE	F100	F100	RMSE	RMSE
1	1	cluster 1	0.00	0.00	0.00	0.00	0.00
2	2	cluster 1	0.00	0.00	0.00	0.00	0.00
3	3	cluster 1	0.00	0.00	0.00	0.00	0.00
4	4	cluster 1	0.00	0.00	0.00	0.00	0.00
5	5	cluster 1	0.00	0.00	0.00	0.00	0.00
6	6	cluster 1	0.00	0.00	0.00	0.00	0.00
7	7	cluster 1	0.00	0.00	0.00	0.00	0.00
8	8	cluster 1	0.00	0.00	0.00	0.00	0.00
9	9	cluster 1	0.00	0.00	0.00	0.00	0.00
10	10	cluster 1	0.00	0.00	0.00	0.00	0.00
11	11	cluster 1	0.00	0.00	0.00	0.00	0.00
12	12	cluster 1	0.00	0.00	0.00	0.00	0.00
13	13	cluster 1	0.00	0.00	0.00	0.00	0.00
14	14	cluster 1	0.00	0.00	0.00	0.00	0.00
15	15	cluster 1	0.00	0.00	0.00	0.00	0.00
16	16	cluster 1	0.00	0.00	0.00	0.00	0.00
17	17	cluster 1	0.00	0.00	0.00	0.00	0.00
18	18	cluster 1	0.00	0.00	0.00	0.00	0.00
19	19	cluster 1	0.00	0.00	0.00	0.00	0.00
20	20	cluster 1	0.00	0.00	0.00	0.00	0.00

The table is divided into three sections: Rows 1-16, Rows 17-20, and Rows 21-24. The first section shows the results of the Fuzzy C-Means clustering process. The second section shows the results of the Fuzzy C-Means clustering process. The third section shows the results of the Fuzzy C-Means clustering process.

CLUSTER 0	CLUSTER 1	CLUSTER 2	CLUSTER 3
JOKO	DYAH	YANTO	SUSI
AGUS	IKA	WAWAN	WATI
EKO	DIAN	DANI	MAHMUD
BUDI	RATIH	BAYU	SANTI
JONO	FEBRI	RISA	AHMAD
SARAH	TONI	RANI	RAMA
		YANI	DENI
		INDAH	
		BAMBANG	
		HADI	
		NANA	