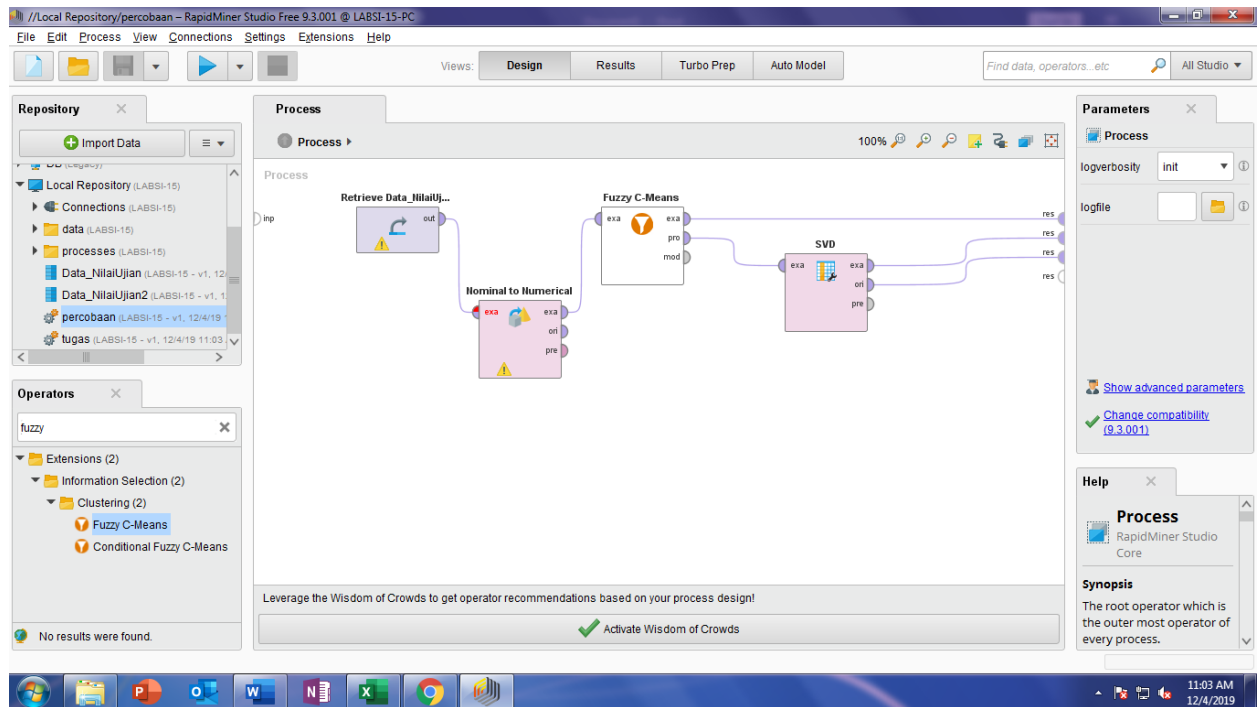
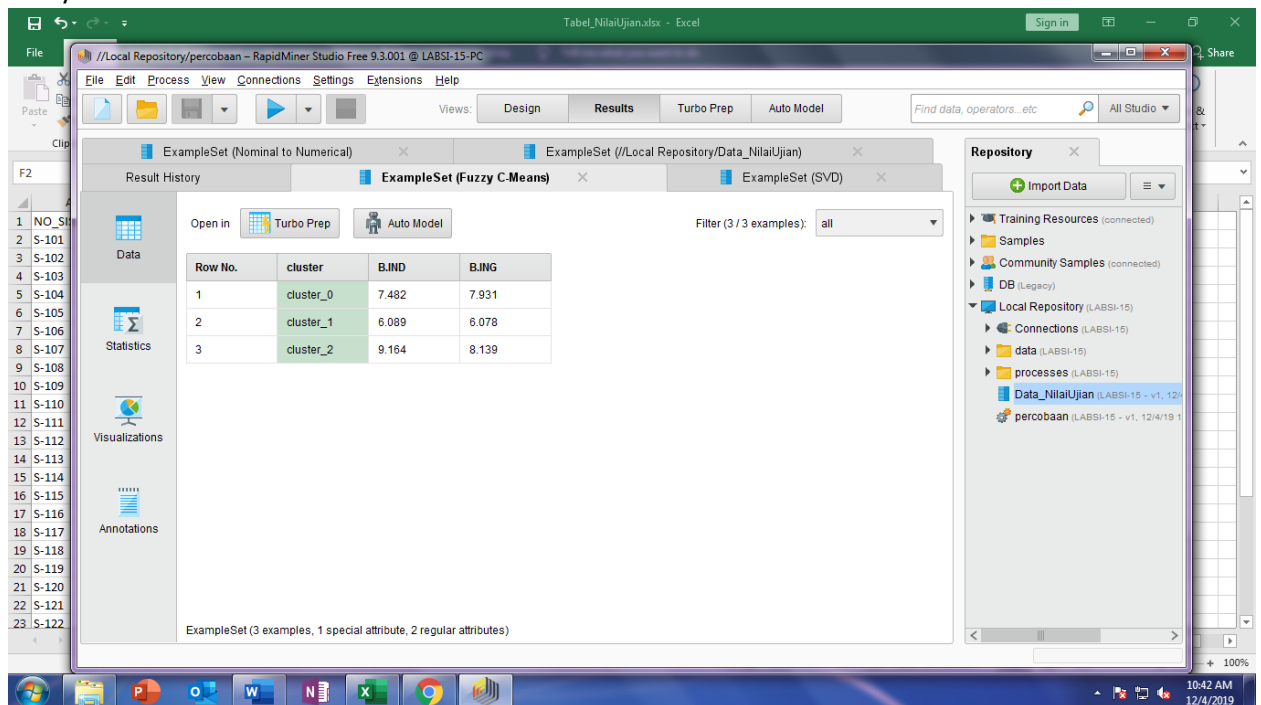


Percobaan



1. Fuzzy C-Means



2. SVD

The screenshot shows the RapidMiner Studio interface. The main workspace displays the 'ExampleSet (SVD)' view, which contains a table with 3 rows and 3 columns: 'Row No.', 'cluster', and 'svd_1'. The 'cluster' column has values 'cluster_0', 'cluster_1', and 'cluster_2'. The 'svd_1' column has values 0.588, 0.465, and 0.662. The 'Filter (3 / 3 examples)' dropdown is set to 'all'. The 'Repository' panel on the right shows the 'Data_NilaiUjian' dataset. The 'ExampleSet (Nominal to Numerical)' view is also visible in the background.

Row No.	cluster	svd_1
1	cluster_0	0.588
2	cluster_1	0.465
3	cluster_2	0.662

ExampleSet (3 examples, 1 special attribute, 1 regular attribute)

3. Nominal to Numerical

The screenshot shows the RapidMiner Studio interface. The main workspace displays the 'ExampleSet (Nominal to Numerical)' view, which contains a table with 10 rows and 5 columns: 'Row No.', 'NAMA', 'cluster', 'B.JND', and 'B.JNG'. The 'cluster' column has values 'cluster_0', 'cluster_1', and 'cluster_2'. The 'B.JND' and 'B.JNG' columns have numerical values. The 'Filter (10 / 10 examples)' dropdown is set to 'all'. The 'Repository' panel on the right shows the 'Data_NilaiUjian' dataset. The 'ExampleSet (SVD)' view is also visible in the background.

Row No.	NAMA	cluster	B.JND	B.JNG
1	JOKO	cluster_2	8.540	8.400
2	AGUS	cluster_2	9.980	6.810
3	SUSI	cluster_0	6.200	9.150
4	DYAH	cluster_1	5.240	7.260
5	WATI	cluster_1	5.700	5.710
6	IKA	cluster_0	8.570	5.870
7	EKO	cluster_0	7.700	7.710
8	YANTO	cluster_1	6.600	5.700
9	WAWAN	cluster_2	9	8.120
10	MAHMUD	cluster_2	9.810	9.580

ExampleSet (10 examples, 2 special attributes, 2 regular attributes)

Tugas

The screenshot displays the RapidMiner Studio interface. The 'Repository' pane on the left shows a local repository with various data sources. The 'Process' pane in the center shows a workflow: 'Retrieve Data' (input) connects to 'Nominal to Numerical' (output), which connects to 'Fuzzy C-Means' (output), which finally connects to 'SVD' (output). The 'Parameters' pane on the right for 'Fuzzy C-Means' shows the following settings: 'add cluster attribute' (checked), 'add as label' (unchecked), 'Clusters' (4), 'Iterations' (50), 'measure type...' (MixedEuclidean), and 'mixed measure...' (MixedEuclidean). The 'Help' pane on the right provides information about the 'Fuzzy C-Means' operator, including its tags (Clustering) and synopsis (Fuzzy c-Means (FCM)).

1. TABEL

The screenshot shows a Microsoft Excel spreadsheet titled 'Tabel_NilaiUjian.xlsx'. The spreadsheet contains a table with 23 rows of student data. The columns are labeled A through T. The data is as follows:

NO_SISWA	NAMA	B.IND	B.ING	MTK	IPA
S-101	JOKO	7.246545	8.799515	8.721195	5.811567
S-102	AGUS	9.279984	8.598139	6.324681	8.29489
S-103	SUSI	8.003664	9.649729	8.705567	5.967079
S-104	DYAH	9.303467	5.043919	7.725872	7.376716
S-105	WATI	6.894833	8.417048	8.934103	9.058378
S-106	IKA	7.898395	6.866061	7.968347	6.325082
S-107	EKO	6.399669	9.995717	5.314253	8.807721
S-108	YANTO	7.446606	8.07548	6.443372	8.430923
S-109	WAWAN	5.683365	7.003373	5.397751	8.350917
S-110	MAHMUD	7.380677	7.164565	7.010791	7.509718
S-111	BUDI	8.971782	6.629435	6.004511	6.907082
S-112	SANTI	5.061762	6.429263	6.967327	5.281503
S-113	DIAN	5.137719	6.007932	7.87673	5.121983
S-114	DANI	7.759366	6.528203	9.229111	7.16975
S-115	AHMAD	9.247513	8.193673	9.417823	9.225035
S-116	BAYU	8.358107	7.389598	9.96167	7.134279
S-117	RISA	6.588326	7.377519	9.487084	5.403983
S-118	RANI	6.592923	7.953925	5.21604	8.236216
S-119	YANI	7.303479	7.769984	6.15622	8.313939
S-120	RATIH	8.30627	8.870915	7.140091	9.261261
S-121	INDAH	6.233522	7.229077	6.044019	5.227851
S-122	JONO	5.502508	7.361681	9.883093	6.229897

2. HASIL

SVD

The screenshot displays the RapidMiner Studio interface. The main workspace shows the results of an SVD operation. The 'ExampleSet (SVD)' tab is active, displaying a table with 4 rows and 3 columns: 'Row No.', 'cluster', and 'svd_1'. The 'cluster' column contains categorical values (cluster_0, cluster_1, cluster_2, cluster_3), and the 'svd_1' column contains numerical values (0.472, 0.520, 0.507, 0.500). The 'Filter (4 / 4 examples): all' dropdown is set to 'all'. The 'Repository' panel on the right shows the project structure, including 'Training Resources', 'Samples', 'Community Samples', 'DB (Legacy)', 'Local Repository', 'Connections', 'data', 'processes', and 'Data_NilaiUjian'. The 'Data_NilaiUjian' folder is expanded, showing 'Data_NilaiUjian' (447 bytes), 'Data_NilaiUjian2' (1 kB), 'percobaan' (4 kB), and 'tugas' (4 kB). The status bar at the bottom indicates 'ExampleSet (4 examples, 1 special attribute, 1 regular attribute)'.

Row No.	cluster	svd_1
1	cluster_0	0.472
2	cluster_1	0.520
3	cluster_2	0.507
4	cluster_3	0.500

ExampleSet (4 examples, 1 special attribute, 1 regular attribute)

Fuzzy C-Means

ExampleSet (SVD) ExampleSet (Nominal to Numerical)

Result History

Open in Turbo Prep Auto Model

Filter (4 / 4 examples): all

Row No.	cluster	B.JND	B.ING	MTK	IPA
1	cluster_0	6.565	6.420	8.406	6.530
2	cluster_1	7.124	8.431	6.968	8.269
3	cluster_2	8.214	8.194	6.659	6.922
4	cluster_3	7.751	6.954	7.826	7.046

ExampleSet (4 examples, 1 special attribute, 4 regular attributes)

Repository

Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-15)
 - Connections (LABSI-15)
 - data (LABSI-15)
 - processes (LABSI-15)
 - Data_NilaiUjian (LABSI-15 - v1, 12/4/19 10:34 AM - 447 bytes)
 - Data_NilaiUjian2 (LABSI-15 - v1, 12/4/19 10:45 AM - 1 kB)
 - percobaan (LABSI-15 - v1, 12/4/19 10:37 AM - 4 kB)
 - tugas (LABSI-15 - v1, 12/4/19 10:53 AM - 4 kB)

11:00 AM 12/4/2019

Nominal To Numerical

ExampleSet (SVD) ExampleSet (Fuzzy C-Means) ExampleSet (Nominal to Numerical)

Result History

Open in Turbo Prep Auto Model

Filter (30 / 30 examples): all

Row No.	NAMA	cluster	B.JND	B.ING	MTK	IPA
1	JOKO	cluster_1	7.998	8.836	7.577	7.609
2	AGUS	cluster_0	7.294	8.542	9.827	5.192
3	SUSI	cluster_3	9.289	5.091	9.532	8.170
4	DYAH	cluster_3	7.225	6.098	5.788	6.473
5	WATI	cluster_1	7.052	8.749	7.130	9.850
6	IKA	cluster_1	9.228	9.711	5.516	9.548
7	EKO	cluster_2	7.709	9.030	8.019	5.596
8	YANTO	cluster_0	6.553	6.175	8.486	6.445
9	WAWAN	cluster_2	8.683	8.326	6.403	7.111
10	MAHMUD	cluster_1	7.296	8.193	8.453	8.352
11	BUDI	cluster_3	9.231	5.160	9.530	5.644
12	SANTI	cluster_1	7.091	8.042	6.487	8.367
13	DIAN	cluster_1	5.677	9.630	5.953	6.652
14	DANI	cluster_1	5.653	9.066	5.855	8.529

ExampleSet (30 examples, 2 special attributes, 4 regular attributes)

Repository

Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-15)
 - Connections (LABSI-15)
 - data (LABSI-15)
 - processes (LABSI-15)
 - Data_NilaiUjian (LABSI-15 - v1, 12/4/19 10:34 AM - 447 bytes)
 - Data_NilaiUjian2 (LABSI-15 - v1, 12/4/19 10:45 AM - 1 kB)
 - percobaan (LABSI-15 - v1, 12/4/19 10:37 AM - 4 kB)
 - tugas (LABSI-15 - v1, 12/4/19 10:53 AM - 4 kB)

11:00 AM 12/4/2019

Result History

ExampleSet (Fuzzy C-Means)

ExampleSet (SVD)

ExampleSet (Nominal to Numerical)

Open in Turbo Prep Auto Model

Filter (30 / 30 examples): all

Row No.	NAMA	cluster	B.IND	B.ING	MTK	IPA
15	AHMAD	cluster_1	7.716	7.218	6.689	8.080
16	BAYU	cluster_0	6.476	7.203	8.830	6.468
17	RISA	cluster_3	7.210	7.263	7.910	7.537
18	RANI	cluster_2	9.848	7.058	5.657	7.536
19	YANI	cluster_2	8.630	8.663	5.008	6.105
20	RATIH	cluster_1	5.728	9.746	8.530	9.017
21	INDAH	cluster_2	9.628	7.935	8.213	5.653
22	JONO	cluster_3	7.767	5.012	6.290	6.826
23	SARAH	cluster_0	6.074	6.853	7.568	5.538
24	RAMA	cluster_0	5.606	6.712	8.834	6.890
25	BAMBANG	cluster_0	5.403	5.622	8.784	6.860
26	HADI	cluster_0	6.132	8.657	8.070	5.074
27	NANA	cluster_2	7.084	9.229	6.228	5.704
28	FEBRI	cluster_3	9.983	5.626	9.781	9.777

ExampleSet (30 examples, 2 special attributes, 4 regular attributes)

Repository

Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-15)
 - Connections (LABSI-15)
 - data (LABSI-15)
 - processes (LABSI-15)
 - Data_NilaiUjian (LABSI-15 - v1, 12/4/19 10:34 AM - 447 bytes)
 - Data_NilaiUjian2 (LABSI-15 - v1, 12/4/19 10:37 AM - 1 kB)
 - percobaan (LABSI-15 - v1, 12/4/19 10:37 AM - 4 kB)
 - tugas (LABSI-15 - v1, 12/4/19 10:53 AM - 4 kB)

Result History

ExampleSet (Fuzzy C-Means)

ExampleSet (SVD)

ExampleSet (Nominal to Numerical)

Open in Turbo Prep Auto Model

Filter (30 / 30 examples): all

Row No.	NAMA	cluster	B.IND	B.ING	MTK	IPA
17	RISA	cluster_3	7.210	7.263	7.910	7.537
18	RANI	cluster_2	9.848	7.058	5.657	7.536
19	YANI	cluster_2	8.630	8.663	5.008	6.105
20	RATIH	cluster_1	5.728	9.746	8.530	9.017
21	INDAH	cluster_2	9.628	7.935	8.213	5.653
22	JONO	cluster_3	7.767	5.012	6.290	6.826
23	SARAH	cluster_0	6.074	6.853	7.568	5.538
24	RAMA	cluster_0	5.606	6.712	8.834	6.890
25	BAMBANG	cluster_0	5.403	5.622	8.784	6.860
26	HADI	cluster_0	6.132	8.657	8.070	5.074
27	NANA	cluster_2	7.084	9.229	6.228	5.704
28	FEBRI	cluster_3	9.983	5.626	9.781	9.777
29	DENI	cluster_3	7.119	5.722	6.788	6.503
30	TONI	cluster_0	6.484	5.030	8.409	6.477

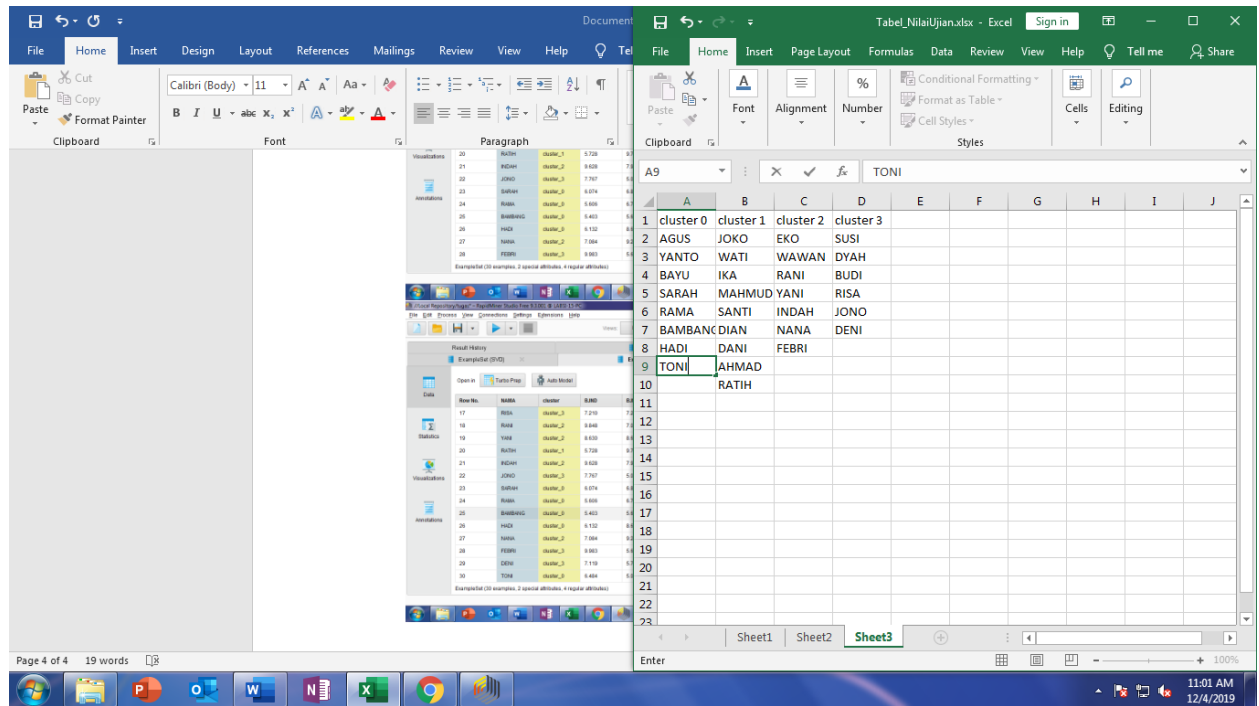
ExampleSet (30 examples, 2 special attributes, 4 regular attributes)

Repository

Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-15)
 - Connections (LABSI-15)
 - data (LABSI-15)
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 - percobaan (LABSI-15 - v1, 12/4/19 10:37 AM - 4 kB)
 - tugas (LABSI-15 - v1, 12/4/19 10:53 AM - 4 kB)

3.



The image shows a screenshot of a computer screen with two windows open: Microsoft Word and Microsoft Excel. The Word window is in the foreground, and the Excel window is in the background.

Microsoft Word Window:

- Title bar: Document
- Menu bar: File, Home, Insert, Design, Layout, References, Mailings, Review, View, Help
- Home tab ribbon: Clipboard (Cut, Copy, Paste, Format Painter), Font (Calibri (Body), 11, Bold, Italic, Underline, Text Color, Background Color), Paragraph (Bulleted List, Numbered List, Decrease Indent, Increase Indent, Line and Paragraph Spacing, Paragraph Style, Text Alignment, Orientation, Language, Proofing, Show/Hide Paragraph Marks).
- Document content: A table with 3 columns: No, Nama, cluster_3. The table contains 10 rows of data.

Microsoft Excel Window:

- Title bar: Tabel_NilaiUjian.xlsx - Excel
- Menu bar: File, Home, Insert, Page Layout, Formulas, Data, Review, View, Help, Tell me, Share
- Home tab ribbon: Clipboard (Paste), Font (Font Face, Size, Bold, Italic, Underline, Text Color, Background Color), Alignment (Align Left, Center, Right, Justify, Merge & Center, Wrap Text, Orientation, Rotate), Number (Number Format, Decrease Indent, Increase Indent), Styles (Conditional Formatting, Format as Table, Format as Cell Style).
- Worksheet: Sheet3. The table contains 10 rows of data.

Table Data (from both windows):

No	Nama	cluster_3
17	RISA	cluster_3
18	RANI	cluster_3
19	YANI	cluster_3
20	RATIH	cluster_3
21	AGUS	cluster_3
22	JOKO	cluster_3
23	SUSI	cluster_3
24	WAWAN	cluster_3
25	DIYAH	cluster_3
26	BUDI	cluster_3
27	RISA	cluster_3
28	JONO	cluster_3
29	DENI	cluster_3
30	FEBRI	cluster_3