

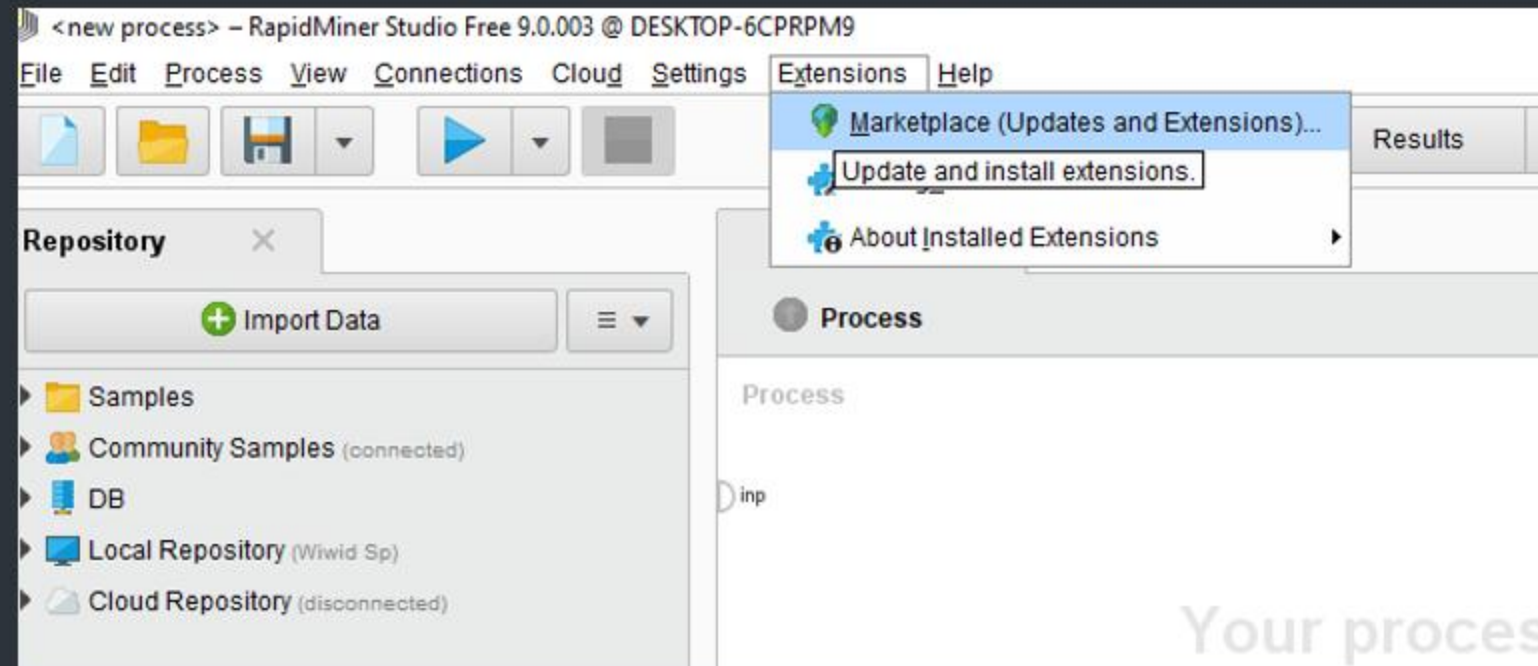


Algoritma Clustering

Fuzzy C-Means (FCM)

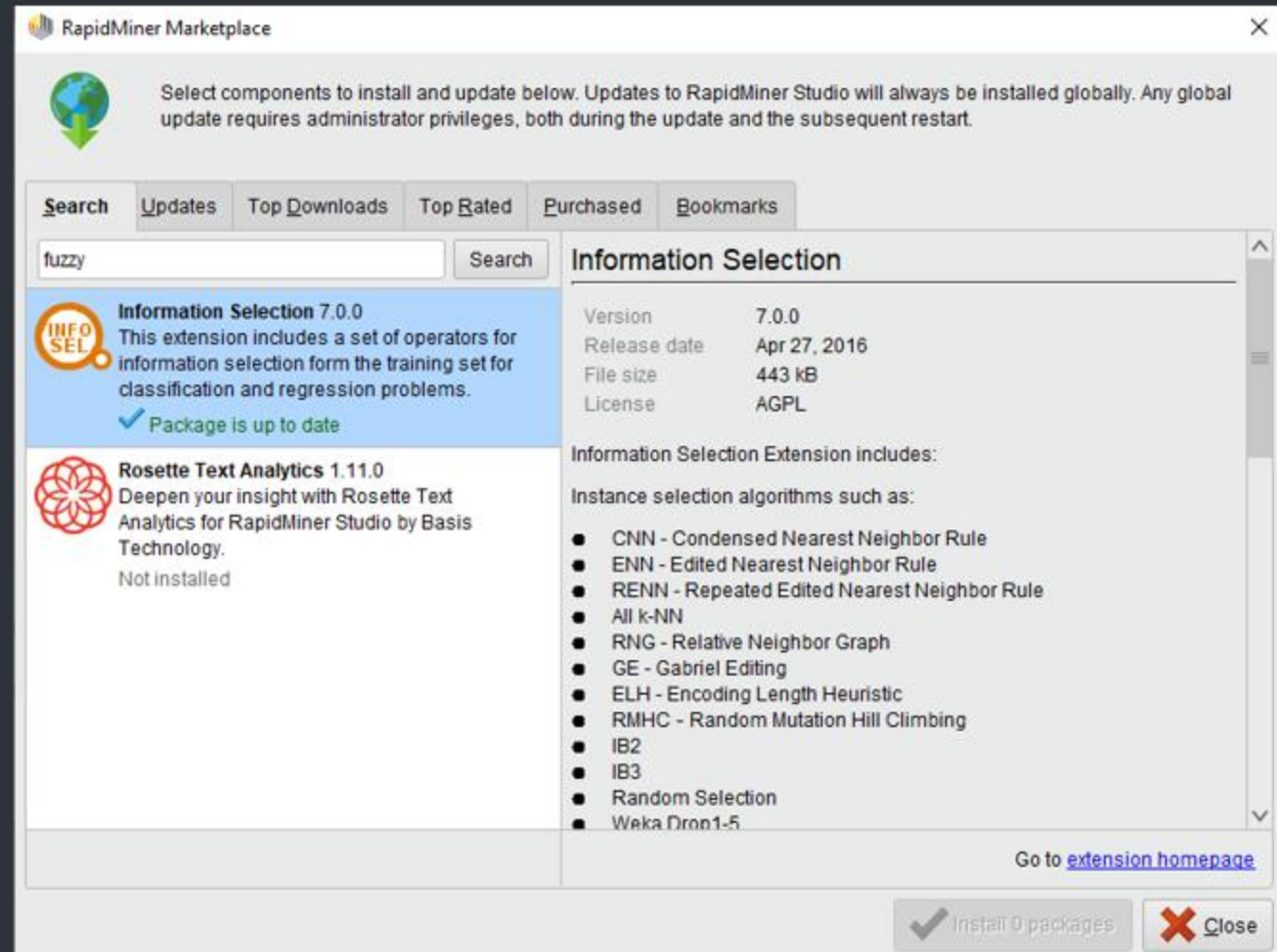
Menambahkan Operator

- Pastikan terhubung dengan internet, pilih menu Extensions >> Marketplace



Menambahkan Operator

- Tuliskan “fuzzy” pada Tab Search, bila operator “Information Selection” belum terpasang maka lakukan instalasi



The screenshot shows the RapidMiner Marketplace interface. At the top, there's a header with the RapidMiner logo and a message about updates. Below the header, there are tabs for Search, Updates, Top Downloads, Top Rated, Purchased, and Bookmarks. The Search tab is active, and the search term 'fuzzy' is entered in the search bar. The search results show two items: 'Information Selection 7.0.0' and 'Rosette Text Analytics 1.11.0'. The 'Information Selection 7.0.0' item is highlighted, and its details are shown on the right side of the window. The details include the version (7.0.0), release date (Apr 27, 2016), file size (443 kB), and license (AGPL). It also lists the instance selection algorithms included in the extension: CNN, ENN, RENN, All k-NN, RNG, GE, ELH, RMHC, IB2, IB3, Random Selection, and Weka Dron1-5. At the bottom of the window, there are buttons for 'Install 0 packages' and 'Close'.

RapidMiner Marketplace

Select components to install and update below. Updates to RapidMiner Studio will always be installed globally. Any global update requires administrator privileges, both during the update and the subsequent restart.

Search Updates Top Downloads Top Rated Purchased Bookmarks

fuzzy Search

Information Selection 7.0.0
This extension includes a set of operators for information selection from the training set for classification and regression problems.
✓ Package is up to date

Rosette Text Analytics 1.11.0
Deepen your insight with Rosette Text Analytics for RapidMiner Studio by Basis Technology.
Not installed

Information Selection

Version 7.0.0
Release date Apr 27, 2016
File size 443 kB
License AGPL

Information Selection Extension includes:
Instance selection algorithms such as:

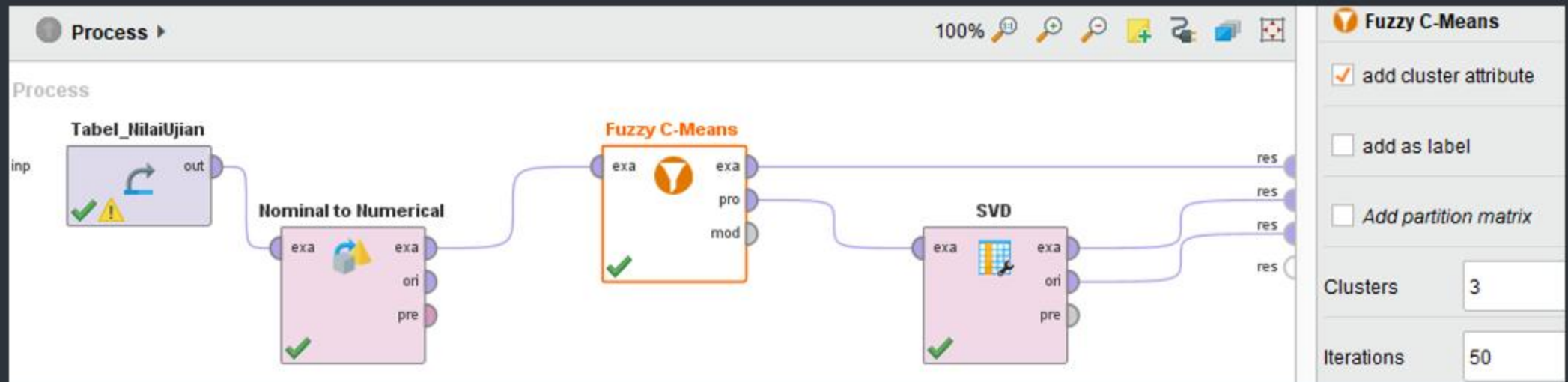
- CNN - Condensed Nearest Neighbor Rule
- ENN - Edited Nearest Neighbor Rule
- RENN - Repeated Edited Nearest Neighbor Rule
- All k-NN
- RNG - Relative Neighbor Graph
- GE - Gabriel Editing
- ELH - Encoding Length Heuristic
- RMHC - Random Mutation Hill Climbing
- IB2
- IB3
- Random Selection
- Weka Dron1-5

Go to [extension homepage](#)

✓ Install 0 packages ✗ Close

Mengganti Operator

- Buka kembali table data nilai siswa pada modul 10 (k-means). Pada percobaan ini kita kan ganti operator k-means menjadi fuzzy c-means.



Hasil

- Amati hasil cluster yang terbentuk, bandingkan hasilnya dengan percobaan pada Modul 10.

ExampleSet (10 examples, 2 special attributes, 22 regular attributes)

Row No.	id	cluster
1	1	cluster_2
2	2	cluster_2
3	3	cluster_0
4	4	cluster_1
5	5	cluster_1
6	6	cluster_0
7	7	cluster_0
8	8	cluster_1
9	9	cluster_2
10	10	cluster_2

Tugas

- Buka kembali Tugas pada modul 10, kerjakan soal nomor 1-3 dengan mengganti operator menjadi FUZZY C-MEANS