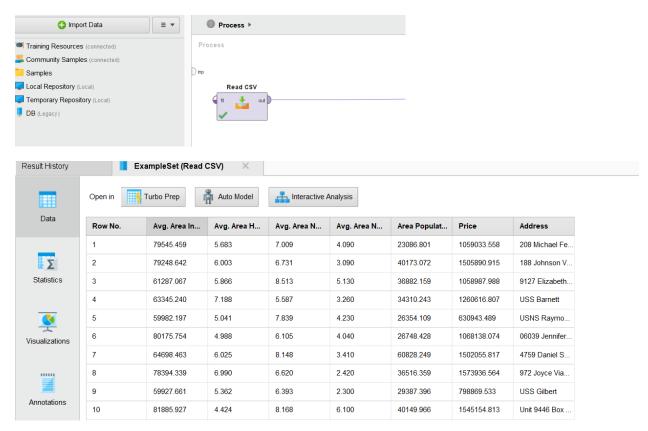
Rapidminer USA-Housing

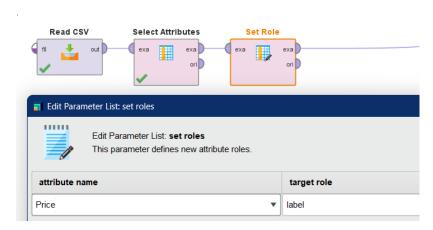
1. Import *.csv file, Get csv file from local, click **import Configuration Wizard**, connect [readcsv]--res and [Run]



Step 2. Operators: type and move [Select Attributes] to design pane.

Parameters: attribute filter type: **a subset**, click [select Attributes], the dialog window opens, choose every items beside **Address** [Apply]

Step 3. Operators: type, move [Set Role] to **design** pane. We set dependent value: **price** => **label**



Step 4. Operators: type and move [Split Data] to design pane.

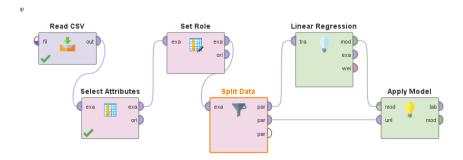
Parameters: Partition, click Edit Enumertation, click add entry 0.8, then add entry: 0.2 [ok]

Step 5. Operators: type and move [Linear Regression] to design pane.

[Split Data] par ----- tra [Linear Regression]

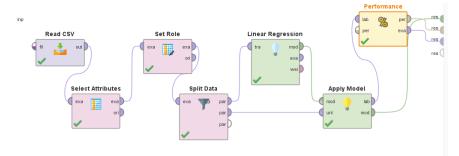
Step 6: Operators: type and move [Apply Mode] to design pane.

Connection as following



Step 7: Operators: type and move [Performance (Regression)] to design pane.

Parameters: select: root mean squared error(default), squared correlation



Data for LinearRegression(Linear Regression)

Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
Avg. Area Income	21.639	0.151	0.653	1.000	143.358	0	***
Avg. Area House Age	165905.349	1617.971	0.467	0.999	102.539	0	***
Avg. Area Number of Rooms	120333.459	1772.026	0.349	0.996	67.907	0	***
Avg. Area Number of Bedroo	2381.785	1464.263	0.008	0.970	1.627	0.104	
Area Population	15.222	0.162	0.428	1.000	94.004	0	***
(Intercept)	-2644341.426	19296.747	?	?	-137.036	0	***

LinearRegression

21.639 * Avg. Area Income

^{+ 165905.349 *} Avg. Area House Age

^{+ 120333.459 *} Avg. Area Number of Rooms

^{+ 2381.785 *} Avg. Area Number of Bedrooms

^{+ 15.222 *} Area Population

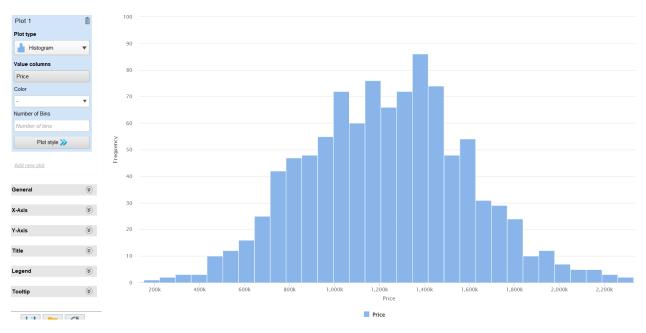
^{- 2644341.426}

PerformanceVector

Root_mean_squared_error: 101010.879 +/- 0.000

Square correlation: 0.921

ExampleSet(Apple Model) ==Visualizations

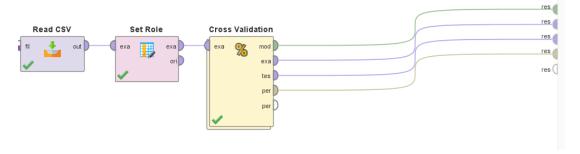


- Data

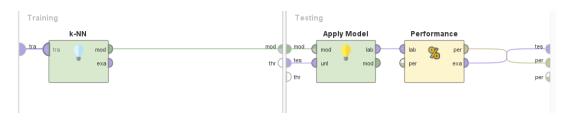
	Name	• •	Туре	Missing	Statistics		
~	Label Price		Real	0	Min 152071.875	M ax 2332110.740	Average 1233226.818
~	Prediction prediction(Price)		Real	0	Min 220122.390	M ax 2476938.337	Average 1233959.136
~	Avg. Area Income		Real	0	Min 35454.715	M ax 107701.748	Average 68755.094
~	▲ Avg. Area House Age		Real	0	Min 2.683	M ax 8.973	Average 5.983
~	Avg. Area Number of Rooms		Real	0	Min 4.028	M ax 9.802	Average 7.023
~	Avg. Area Number of Bedroom	ıs	Real	0	Min 2	M ax 6.500	Average 4.024
~	Area Population		Real	0	Min 6821.950	M ax 67727.229	Average 35688.821

Comparing the train data price and the predicated price, the house price will grow, but it also has a lot of conditions to relate to the house price. It is not simple.

Knn with Cross Validation (USA-Housing)

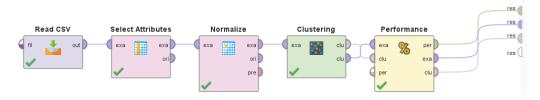


Inside Cross Validation



- 1. Set role → price, Label
- 2. Apply do not do anything, Performance → Performance

KMean (USA-housing, This file is not good to use Kmean, just try for fun)



Select Attributes - Select every field, except [Address]

Normalize: The files need to be clustered

Clustering number 3

Performance: Performance(Cluster Distance Performance)