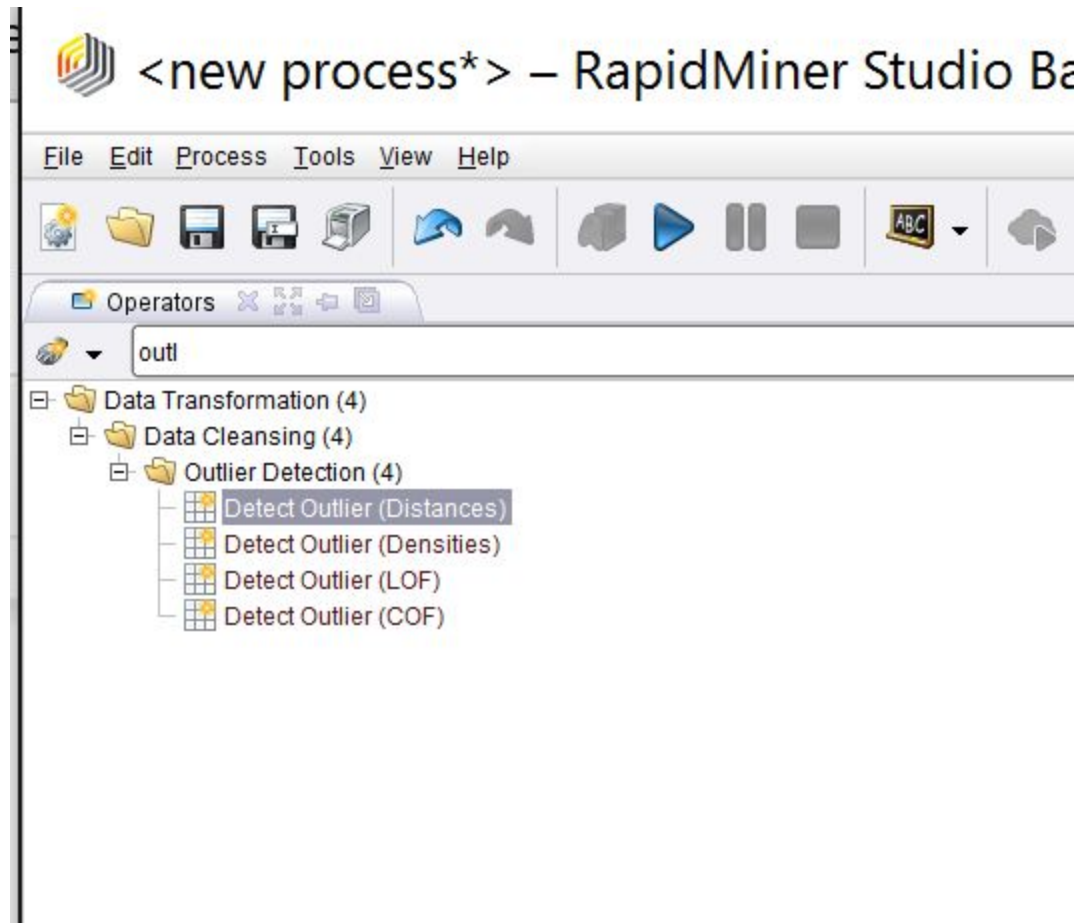# RapidMiner

Lesson 2

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In this lesson we will be working with Outlier detection. Outliers is the name given to records that don't fit in with all of the other records.
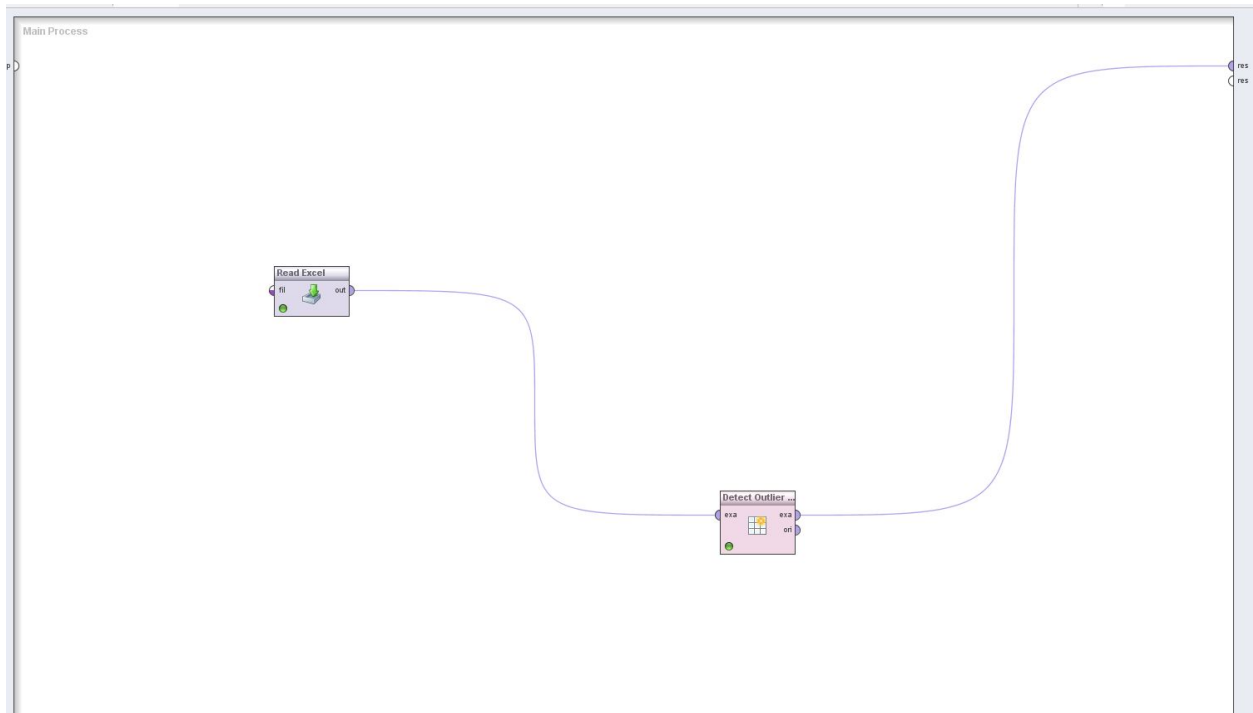
We will be using the same data as Lesson 1 for this process. To get started type the word "Outlier" into the search box on the top left hand side. This will narrow down the collection of operators that we have available to us.
Once you have found the Detect Outlier operator, click and drag it across into your center screen inside RapidMiner.

After we have added in the outlier detection, the next step that we must perform is connecting it into the read that we have already created. You will notice a flow from the read, passing to the outlier detection and then finally across to the right hand side.

All of these connections must be added for RapidMiner to successfully show the results to you. If at any stage you decide you would like to disconnect one of the links, simply right click on the link and then select "Disconnect".

When you have finished, click the blue play button

After you have pressed the play button you will notice that the Results window will then open. An additional column will be added. In this column based upon the data that you have provided, an indication if the record is an outlier will be presented to you in the form of True or False.

ExampleSet (11 examples, 1 special attribute, 7 regular attributes)

Row No.	outlier	married	children	getting_welf...	more_than...	offered_cou...	refused	non_comp
1	true	1	1	1	0	3	1	1
2	false	0	1	1	0	2	1	1
3	true	1	2	1	0	1	0	1
4	true	1	3	1	0	1	0	0
5	true	1	1	1	1	1	0	0
6	true	1	1	1	1	1	0	0
7	true	1	1	1	1	2	2	0
8	true	0	1	1	0	3	3	1
9	true	0	2	1	1	2	2	1
10	true	0	3	1	1	1	1	1
11	true	0	1	1	1	0	1	0