

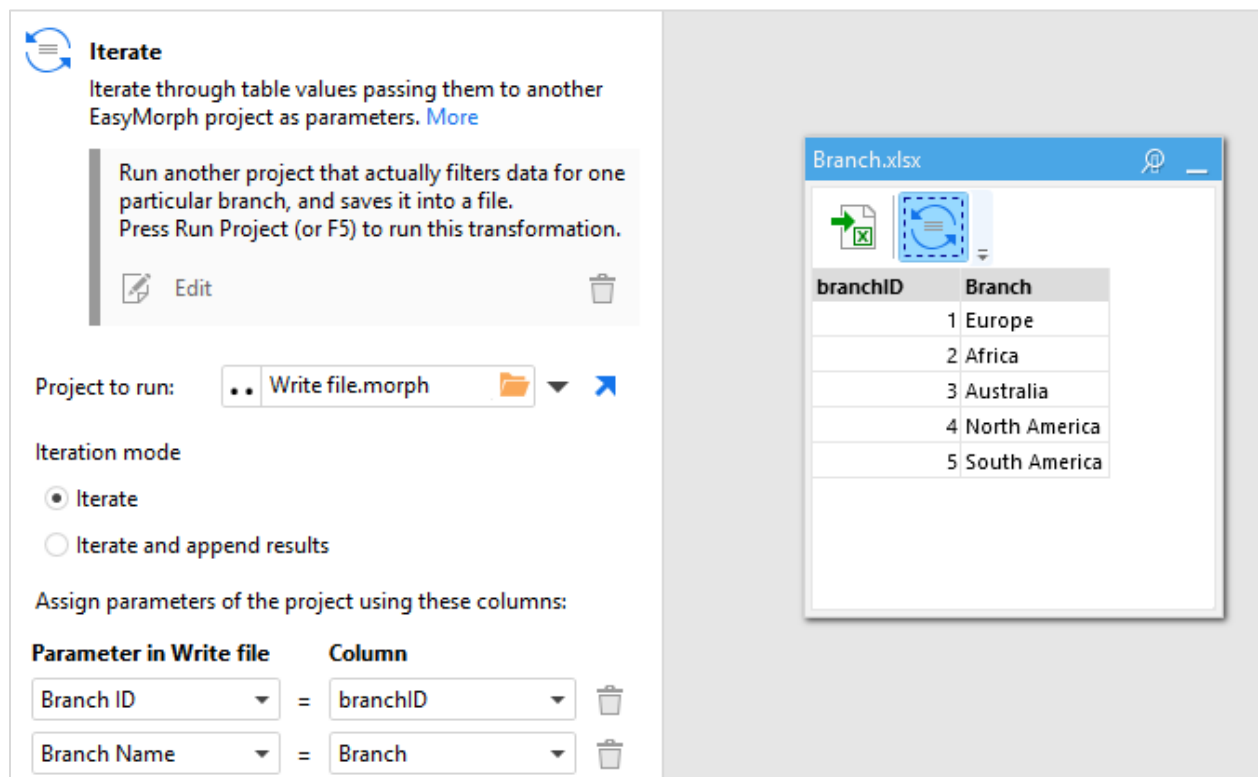
Example “Branches”

This example demonstrates the use of iterations in EasyMorph. Iterations is a powerful feature that allows arranging loops, processing lists of files, running projects for a range of dates, and re-using logic between different projects. To understand better how iterations work check out this article: [Tutorial – Loops and iterations](#).

This example splits one file with sales in 5 branches into 5 files with sales in each branch. The processing is arranged using iterations in EasyMorph. For iterations there should be 2 projects – one project performs iterations and the other one is iterated – i.e. it’s run once for each iteration.

Here is what **Main.morph** does:

1. Load a list of branches from a spreadsheet.
2. Iterate (run) **Write file.morph** once for each row in the list of branches, passing branch ID and branch name to **Write file.morph** project by assigning its parameters {Branch ID} and {Branch Name} with values from column [branchID] and [Branch] respectively.



Iterate
Iterate through table values passing them to another EasyMorph project as parameters. [More](#)

Run another project that actually filters data for one particular branch, and saves it into a file. Press Run Project (or F5) to run this transformation.

Edit

Project to run: **Write file.morph**

Iteration mode

☒ Iterate

☐ Iterate and append results

Assign parameters of the project using these columns:

Parameter in Write file	Column
Branch ID	branchID
Branch Name	Branch

Branch.xlsx

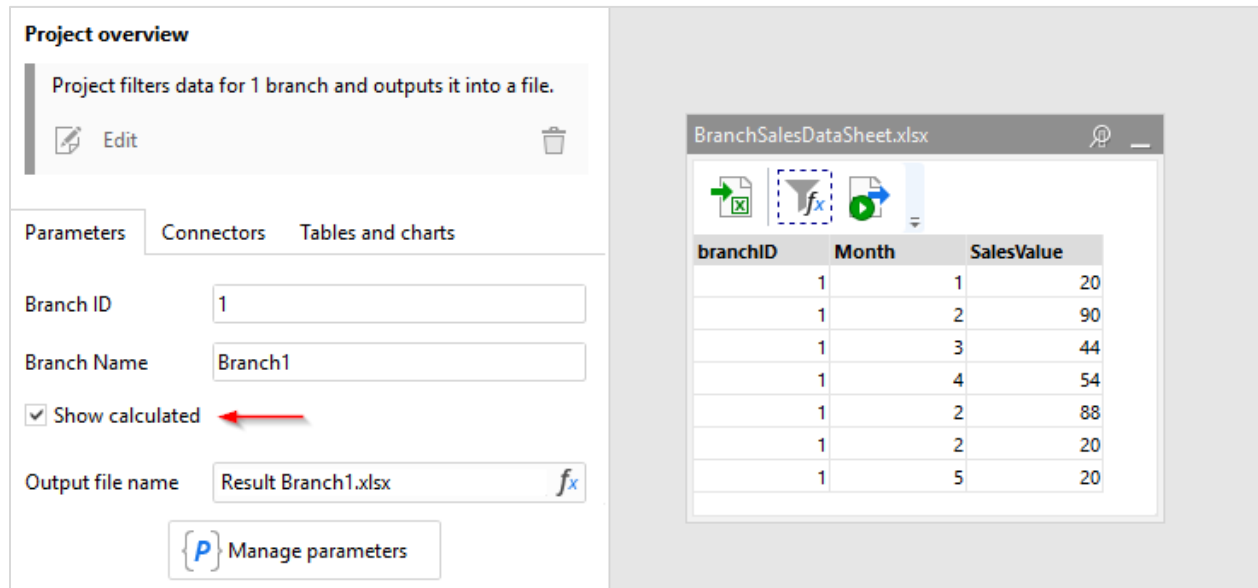
branchID	Branch
1	Europe
2	Africa
3	Australia
4	North America
5	South America

Screenshot 1: Transformation "Iterate" in Main.morph.

Project **Write file.morph** has 3 parameters declared:

- {Branch ID}
- {Branch Name}
- Calculated parameter {Output file name} defined as

'Result ' & {Branch Name} & '.xlsx'



Screenshot 2: Parameters in "Write file.morph"

Here is what **Write file.morph** does:

1. Load sales data for all branches from a spreadsheet.
2. Filter data in order to keep only sales data for branch specified by parameter [Branch ID].
3. Write filtered data into spreadsheet which name is specified by calculated parameter {Output file name}.

How to use the example

- Open **Main.morph**.
- Click "Iterate" transformation and explore its properties.
- Notice that "Iterate" transformation didn't run automatically – it happened because EasyMorph detected that **Write file.morph** writes to files and therefore should only be run manually in order to avoid accidental changes to external files.
- Press "Run project" button (or F5). This will run "Iterate" transformation. Notice that there are 5 new files in the project folder – one file per branch.
- Explore Write file.morph and its parameters.
- Exercise: calculate output file name in **Main.morph** and pass it to **Write file.morph** as 3rd parameter.