Praktika 10 Extract

Step 1 Install EasyMorph (windows only)

Step 2 Perform Example 1 (See pdf in tool or in this document

Step 3 (Optional) Choose another example (Indude tool only)

Example "2 spreadsheets merged"

A simple demo project that loads and merges two Excel spreadsheets:

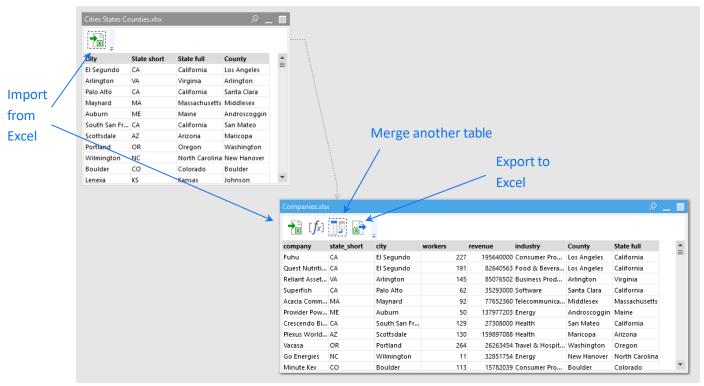
- 1. "Companies.xlsx" -- a sample list of companies with metrics like revenue or number of workers
- 2. "Cities States Counties.xlsx" a reference table with cities, counties and states

The two spreadsheets are merged by city and state. As a result the list of companies has two new columns "State full" and "County" appended from the reference table.

The result is exported into another spreadsheet named "Result.xlsx".

How to use this example

- Open the project it will run all actions automatically (except the "Export to Excel" action, see note [1] below).
- Notice transformation steps (actions) shown as icons above each table. Actions transform tables, stepby-step. You can see the result of each action by clicking its action in the table.
- Click action icons in tables to explore action properties (shown in the sidebar on the left) and their results (shown in the data grid). Explore the properties of the "Merge another table" action. Notice that the dotted line from the "Cities States Counties.xlsx" table points right into the "Merge" action, showing a dependency.



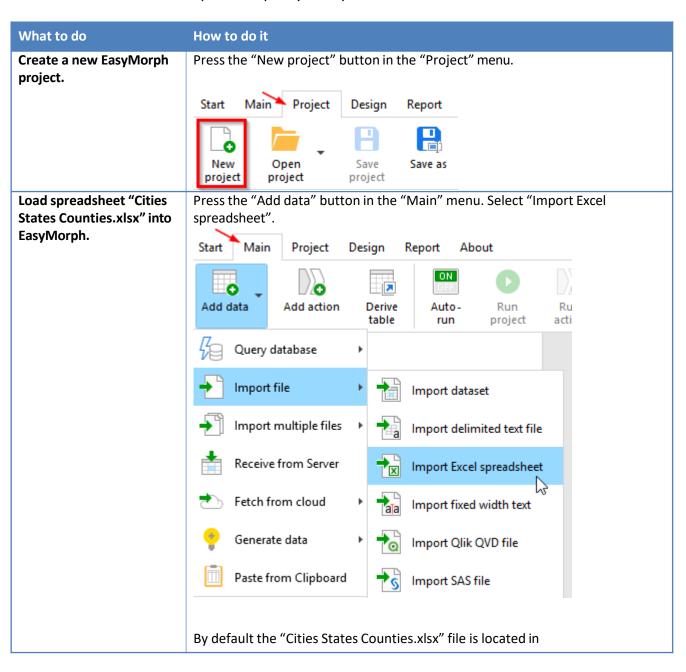
• Press the "Run project" button on the Main toolbar (or F5) to run the remaining uncalculated action which is the export action.

- Find "Result.xlsx" in the example folder. By default the example folder is
 C:\Users\<username>\AppData\Local\EasyMorph\Examples\2 spreadsheets merged\. Note that the
 AppData folder may be hidden depending on your Windows Explorer settings.
- Open "Result.xslx" in Excel. See that the list of companies now has two new columns "State full" and "County" appended from the reference table.

Notes

[1] Export actions can alter data in external files and systems, and therefore are not calculated automatically in order to avoid unnecessary or undesired modifications.

Recreate the example step-by-step



C:\Users\<username>\AppData\Local\EasyMorph\Examples\2 spreadsheets merged\

where <username> is your Windows account.

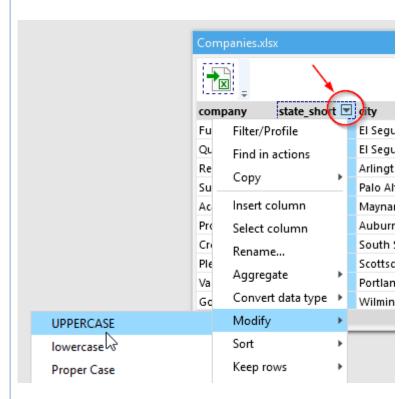
Load "Companies.xlsx" into EasyMorph.

File "Companies.xlsx" is also located in example folder. Load it as described in the previous step above.

In table "Companies.xlsx" make all values in column "state_short" uppercase.

The 2-letter state abbreviations in "Companies" are in the lower case, but in the "Cities States Counties" table they are in the uppercase. Because merging is case-sensitive, we need to bring all names to the same case.

Hover mouse over the header of column "state_short". Click the black arrow button to open the context menu, and select "Modify" then "UPPERCASE"



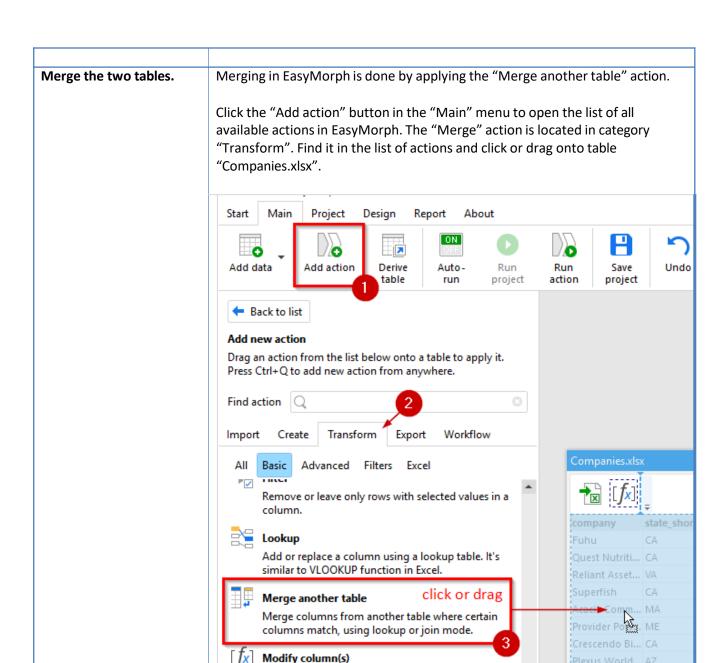
Notice that EasyMorph automatically created a new "Modify column" action:



with the following expression (you can see it in the action properties in the sidebar):

upper([state_short])

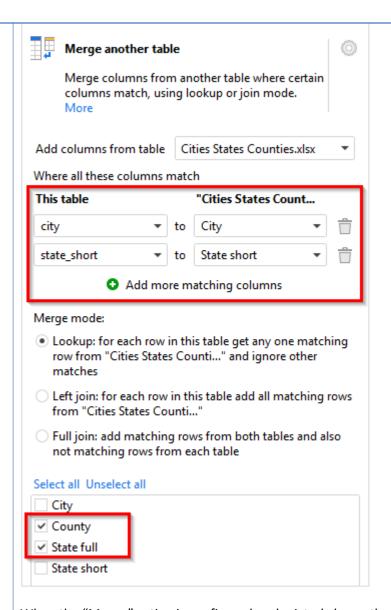
Also notice that the short state names are now in the upper case.



Replace values in one or more columns using

After the "Merge" action is added, configure it by setting up its properties as depicted below. If you don't see the action properties in the sidebar then select the action first by clicking its icon in the table.

(scroll down to the next page)



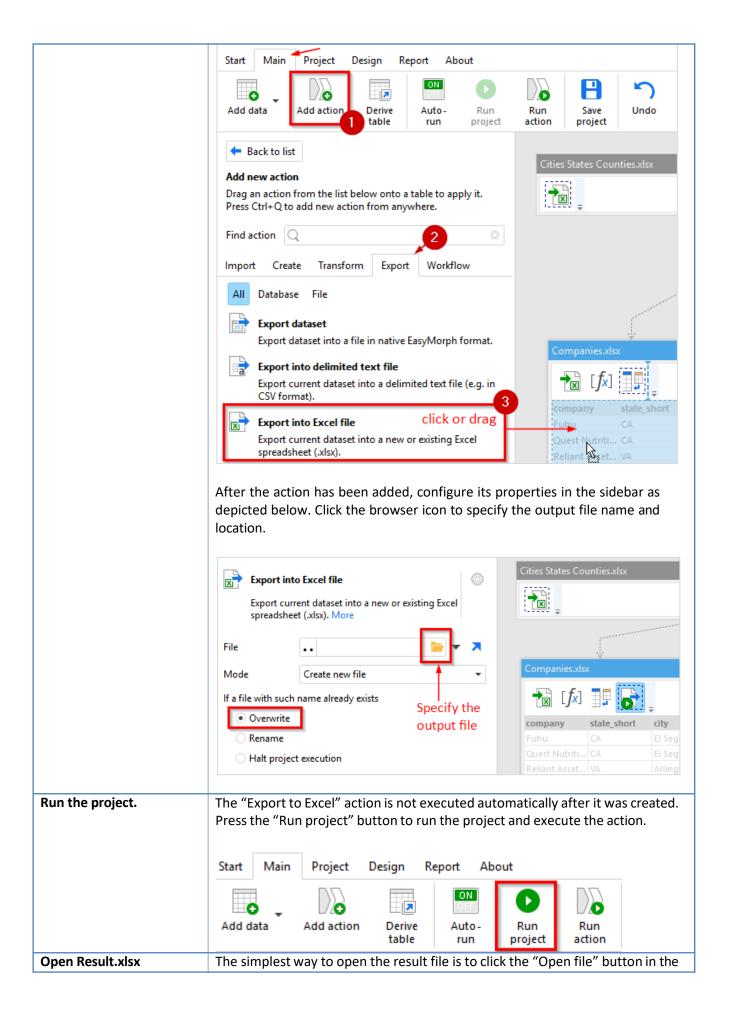
When the "Merge" action is configured as depicted above, the "Companies.xlsx" table should have two new columns "County" and "State full" appended.



Export the result into a new spreadsheet.

Exporting in EasyMorph is done by export actions. To export a table into a spreadsheet insert the "Export to Excel" action after the "Merge" action created in the previous step described above.

To insert the "Export to Excel" action, press the "Add action" button, find the action in the "Export" category and click it or drag onto table "Companies".



"Export to Excel" action:		
File	• • Result.xlsx	