

# UDF: Limitations, Error Codes and Debuggers

Last updated by | Sunil Veldurthi | Apr 28, 2022 at 7:12 AM PDT

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## Limitations

- User Defined Functions can only be used within dataflows (or flowlets)
- User Defined Functions cannot reference other user defined functions
- User Defined Functions cannot be named after existing data flow functions
- User Defined Functions currently cannot return the map/array types and cannot utilize those types as parameters as well. This may be fixed by the time the feature is released for public preview.

## Error Codes:

- DF-FN-0021, DF-EXPR-010, error message : Macro function 'lower' already defined in system functions - This occurs if a user defined function is named after an existing data flow function.
- DF-FNA-00: Function XXX is defined more than once

This occurs if a user defined function is named after an existing user defined function.

## Debugging

- Refresh is a possible cause and likely fix for problems that you run into. There are four different varieties on the UX, in ascending order of resources cleared:
  1. Closing a dataflow or flowlet resource triggers a 'cleanup service' to dispose of dataflow objects, which are reloaded when the dataflow is open
  2. The top right 'refresh' button in the UX downloads and loads all the resources anew
  3. The browser refresh 'F5/Ctrl+R' reloads the entire page
  4. A browser hard refresh 'Ctrl+Shift+R/Shift+F5' reloads the entire page and also clears the browser cache.

## Known Issues :

- UDF's cannot currently parse map/array types, if these are created the resource is permanently put into a bad state, until a fix is released