# Overview

The purpose of this exercise is to give you a basic understanding of the CU drill method.

# Resources

* [Synergy DBL Language Reference](https://www.synergex.com/docs/index.htm)
* [Synergy Best Practices - Coding Standards](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Tims%20Best%20Practices%20-%20Standards/Synergy%20Best%20Practices%20-%20Coding%20Standards.docx)
* [Traditional Synergy in Visual Studio - CU Wiki](http://echo.cu.net/cuwiki/Traditional_Synergy_in_Visual_Studio)
* [Traditional Synergy in Visual Studio Common Terminology - CU Wiki](http://echo.cu.net/cuwiki/Traditional_Synergy_in_Visual_Studio_Common_Terminology)
* [Installing Traditional Synergy in Visual Studio Templates - CU Wiki](http://echo.cu.net/cuwiki/Installing_Traditional_Synergy_in_Visual_Studio_Templates)
* [Creating a New DBR Project (TSVS) - CU Wiki](http://echo.cu.net/cuwiki/Creating_a_New_DBR_Project_(TSVS))
* [Debugging (TSVS) - CU Wiki](http://echo.cu.net/cuwiki/Debugging_(TSVS))
* [CU Toolkit Manual](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Synergy%20Reference%20-%20CUToolkit%20Reference%20Manual.doc)
* [Getting Started With Repository](https://www.synergex.com/docs/versions/v111/index.htm#rps/1_WELCOME_RPS.htm)
* [Synergy Data Language](https://www.synergex.com/docs/versions/v111/index.htm#rps/6_SDL.htm)

# Exercise

1. Open the repository schema “DemoMas.schema” and make the following changes:
   * Add structure DEMOCODEDRLKEY:
     + Add to the structure a DemoCode field using the same definition as in the DEMOMAS structure.
   * Add structure DEMOCODEDRL:
     + Add to the structure a group which contains a reference to a DEMOCODEDRLKEY structure.
     + Name the group “list\_data”.
     + Add separate fields for Description and Active using the same definition as in the DEMOMAS structure, except that Active is not a checkbox.
   * Add structure DEMOCODEFLT.
     + It should have the following fields:
       - user\_max\_load:
         * Type: Integer
         * Size: 4
         * Automatic
         * Copy
         * Left justify
         * Range: 1-250
         * Prompt: “Maximum matches”
       - first\_dlf\_call:
         * Type: Decimal
         * Size: 1
       - filter\_type:
         * Type: Decimal
         * Size: 1
         * Copy
         * Change method: “cm\_democodeflt”
       - entry:
         * Type: Alpha
         * Size: 20
         * Copy
         * Uppercase
2. Open the script file “DemoMnt.wsc” and make the following changes:
   * Create the input window DemoCode\_Flt:
     + Use repository structure DEMOCODEFLT and add fields:
       - user\_max\_load
       - filter\_type
       - entry
     + The title of the window should be “Demo Code Filter Criteria” and should have an OK and Cancel button.
     + Add a selection window to the filter\_type field with the following selections:
       - Code begins with…
       - Description begins with…
       - Description contains…
   * Create the input window DemoCode\_Lst.
     + Use repository structure DEMOCODEDRL and add fields:
       - DemoCode
       - Description
       - Active
     + All fields should be specified with the “noprompt” qualifier.
     + Add the heading text as shown in the examples in class.
   * Add the drill method “dl\_key” to the DemoCode field in input window DemoMntG.
3. Create the file “DRLDemoCode.dbl”, add all necessary code for the drill method:
   * Add a change method CM\_DemoCodeFlt:
     + It should initialize the Entry field whenever you change the value of the filter\_type.
     + It should also change the input size of the entry field to the appropriate size based on the filter\_type.
   * Add a display method to the Active field in DemoCode\_Lst.
   * Display “Y” if Active has a value of 1 otherwise display “N”.
4. Add a call to “**CUE\_METHOD**” to the input arrive method (iam\_) for the DemoMnt general tab to register the “KEY\_DRILL” method.

# Discussion

You will be using your DemoMas table for this exercise. Be sure you have several rows in your DemoMas table.