GnuCOBOL Tui Tools Collection: 71 "CRUDE Application" Create Read Update Delete

"CRUDE" applications allow you to create, read, update, and delete indexed file records with a primary key that never allows duplicates and with or without alternative keys that may or may not have duplicates.
They can be a master record (customer records, suppliers, accounts, materials ...) or of any other type, such as transactional (accounting records, invoices issued, purchase orders, stock movements, and so on).
AFAIK, this is the first available example of a CRUDE application on indexed files in GnuCOBOL.

In this example, the CRUDE application manage an INDEXED FILE with a primary key and 3 alternative keys that do not allow duplicate values.

The primary key in this application is a simple 9-digit numerator from 1 onwards without any meaning.

This way, you can have alternate keys that can be changed without being forced to erase the record and rewrite it as it is mandatory for primary keys that can not be modified.

This TUI tool is also a fully functional real application.
This sample CRUDE tool manages a FILE with business data master data.

It is possible to duplicate these programs, keeping the general logic for managing other customer, supplier, accounts, materials etc or other transactional file files (accounting records, inventory movements, etc.).
These files have a similar structure, that is, a primary key with a simple counter and secondary keys according to different needs (codes, descriptions ...).

The application is designed to allow multiple companies environment..
In the example we handle more ANAGExxx.DAT files with three alternative keys where "xxx" is a code associated with a certain company code.

This application uses other TUI TOOLS such as MENU, BOX, BOXMEX, DATEPICKER, BUTTONS, YESNO.

The CRUDE application consists of four programs
GC71CRUDEMAIN that displays a cover and manages menus.
GC71CRUDESEL that allows multi-company and multi-file management.
GC71CRUDEBRO that allows viewing and browsing of each of the files with subsequent link to records creation, edit and delete operations.
GC71CRUDECUD performing both creating and editing and deleting records

The application starts with a GC71CRUDEMAIN Menu that has two options only: CREATE and READ (Browse).
The Browse program allows selecting a record to be updated or deleted, or creating a new record.

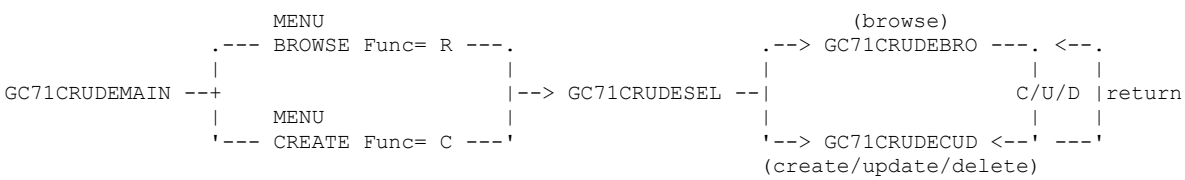
GC71CRUDEMAIN allows the user to select the Browse.o Create function.
In both cases, the GC71CRUDESEL program is called, which allows you to select the file (that is, the company code) and then in turn calls GC71CRUDEBRO to have the records list or the GC71CRUDECUD program for creating a new record.

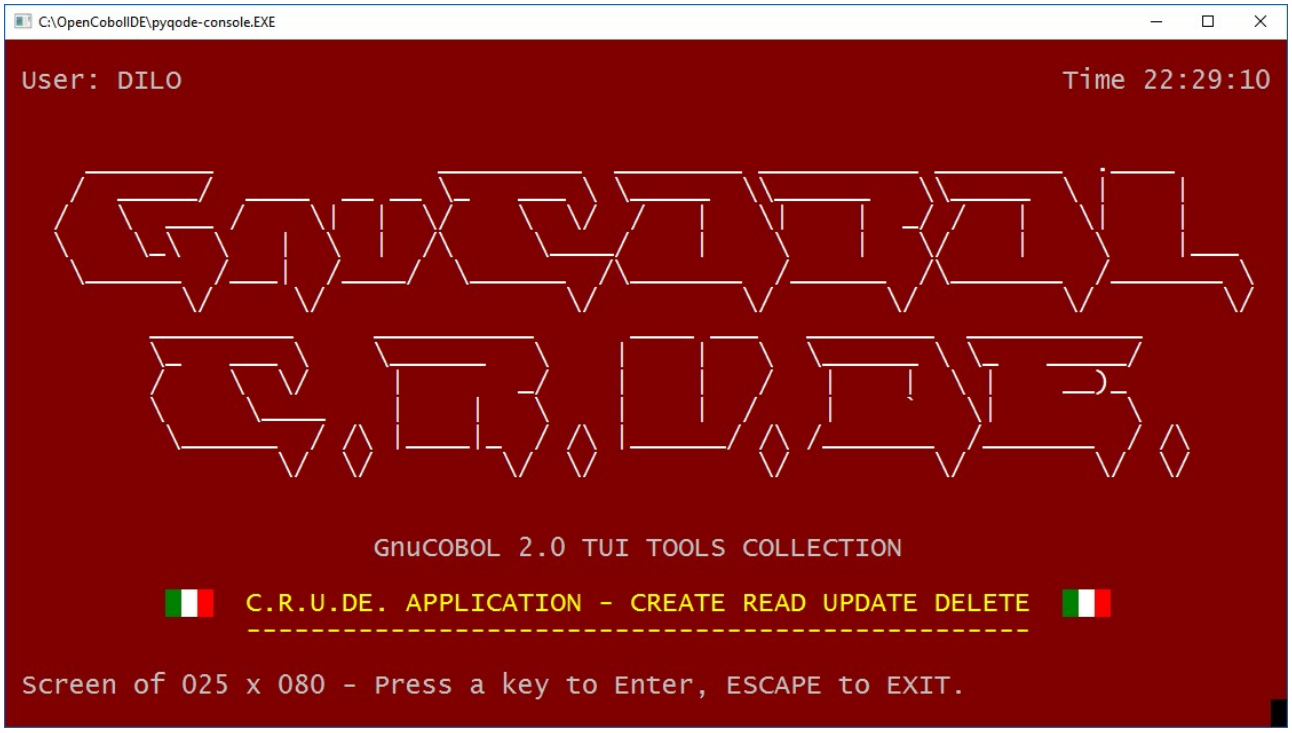
GC71CRUDEBRO lists the records already in the file. Lets you scroll vertically and horizontally from the file and select a record that is managed in edit or delete from the same program GC71CRUDECUD.

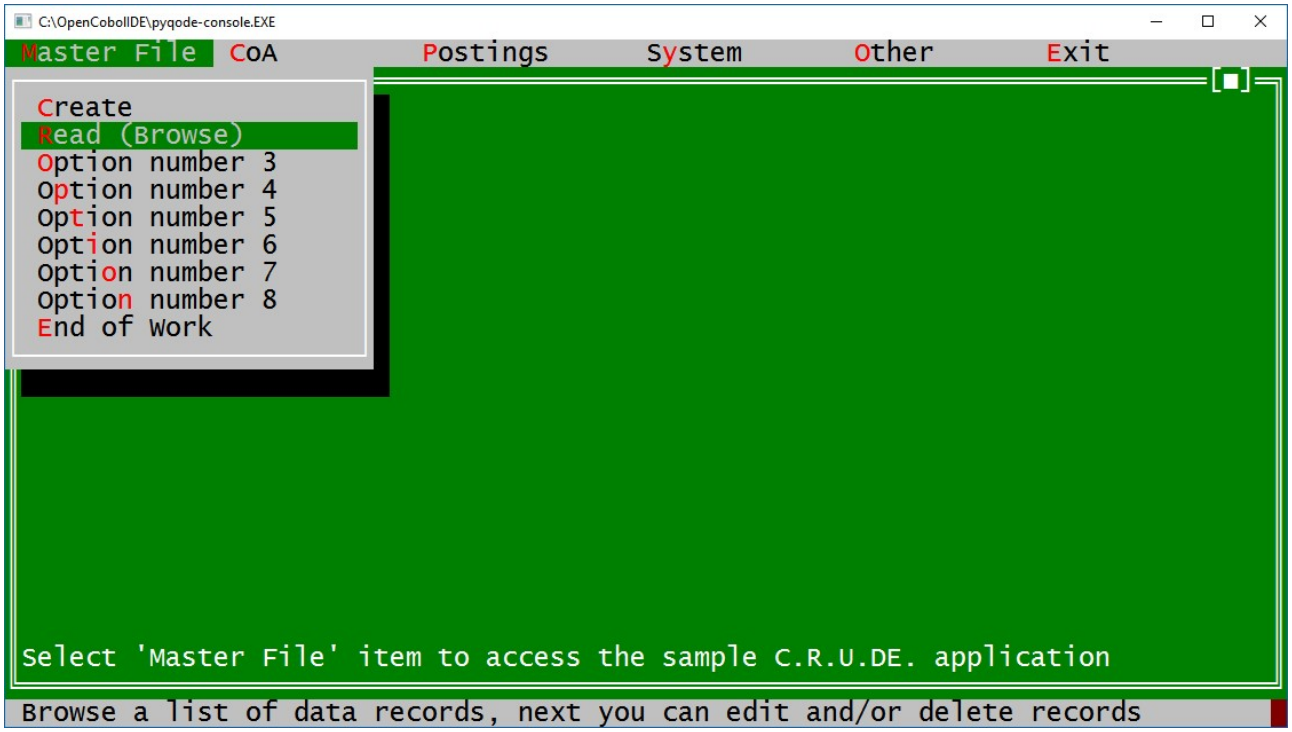
GC71CRUDECUD allows you to create a new record but also edit and delete it.
It is an example of how user input can be managed with various types of fields, controls, and datepickers.
It contains examples of entering amounts with integer and decimal digits and also with a negative sign.
It also contains the example of help on fields using the TUI GC74HELPVIEW tool.

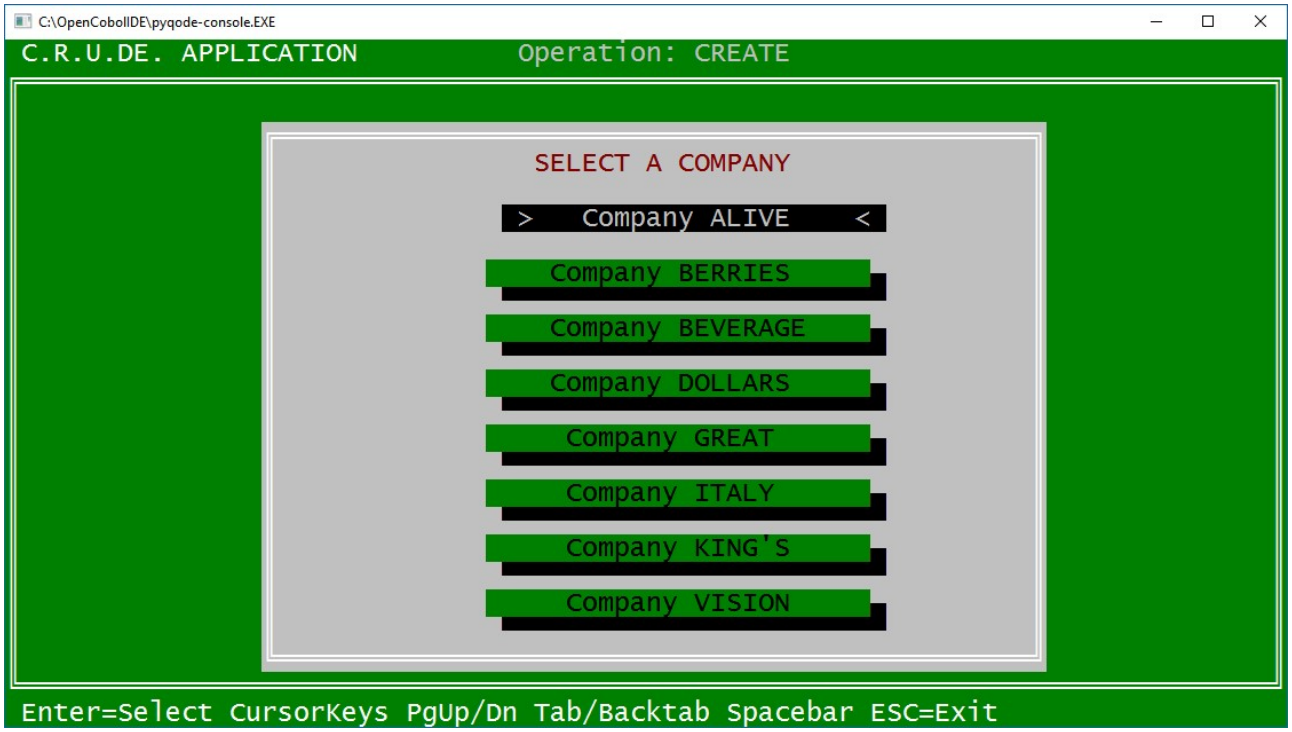
The general operating schema of the CRUDE application is as follows.

GnuCOBOL C.R.U.DE APPLICATION (CREATE READ UPDATE DELETE)

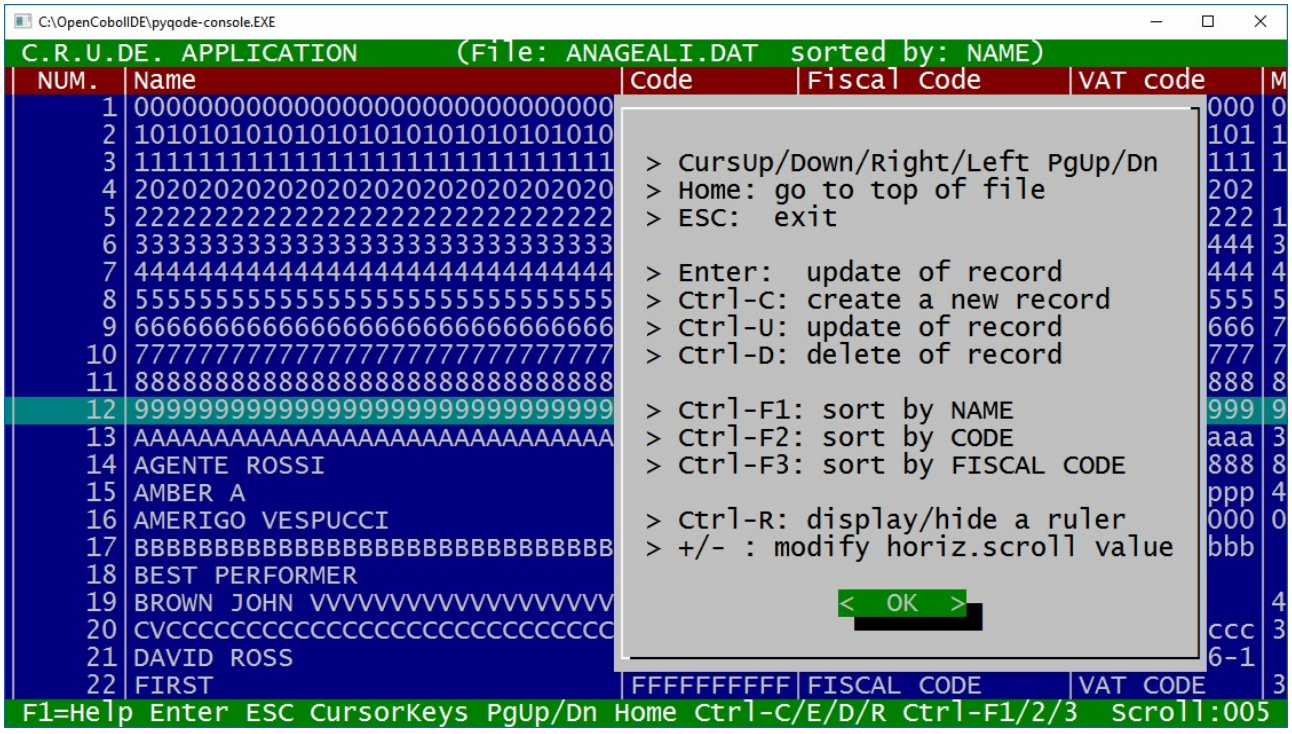



C:\OpenCobolIDE\pyqode-console.EXE
User: DILO
Time 22:29:10
GnuCOBOL 2.0 TUI TOOLS COLLECTION
C.R.U.DE. APPLICATION - CREATE READ UPDATE DELETE
Screen of 025 x 080 - Press a key to Enter, ESCAPE to EXIT.

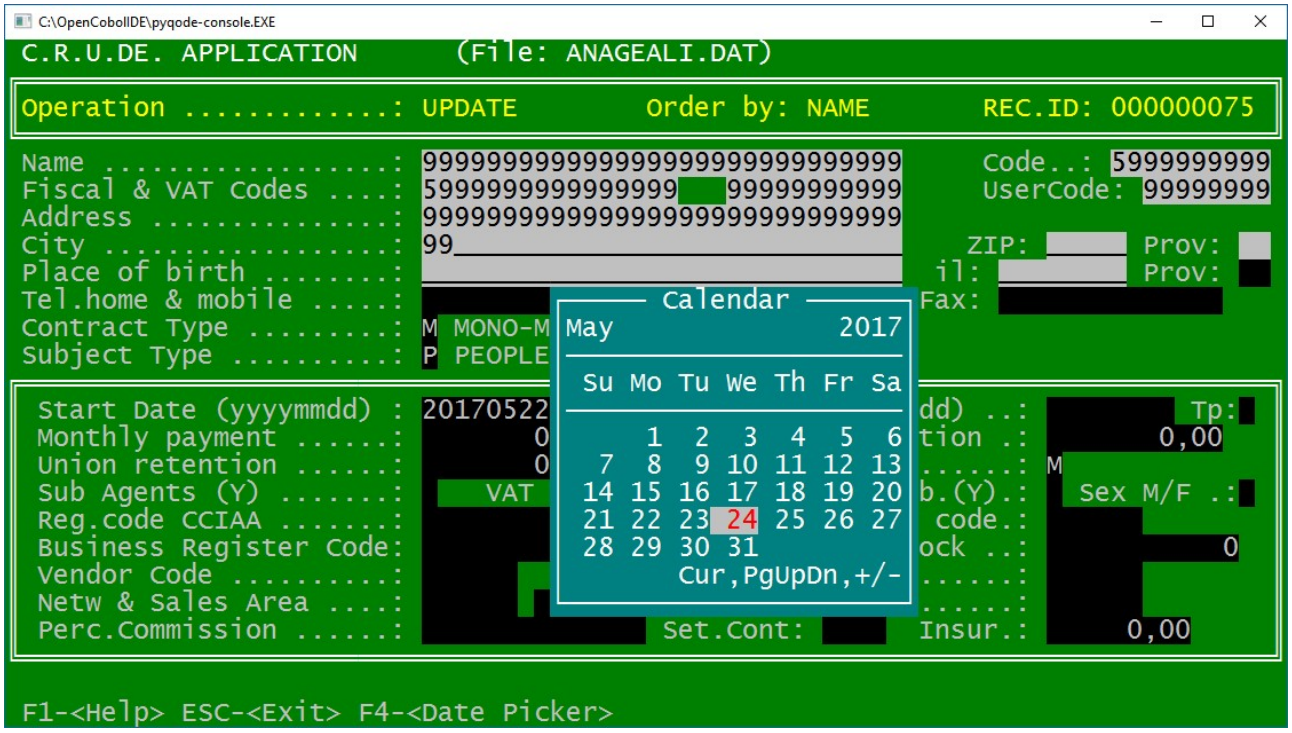

C:\OpenCobolIDE\pyqode-console.EXE
Master File
CoA
Postings
System
Other
Exit
Create
Read (Browse)
Option number 3
Option number 4
Option number 5
Option number 6
Option number 7
Option number 8
End of Work
Select 'Master File' item to access the sample C.R.U.DE. application
Browse a list of data records, next you can edit and/or delete records


C:\OpenCobolIDE\pyqode-console.EXE
C.R.U.DE. APPLICATION
Operation: CREATE
SELECT A COMPANY
> Company ALIVE <
Company BERRIES
Company BEVERAGE
Company DOLLARS
Company GREAT
Company ITALY
Company KING'S
Company VISION
Enter=Select CursorKeys PgUp/Dn Tab/Backtab Spacebar ESC=Exit

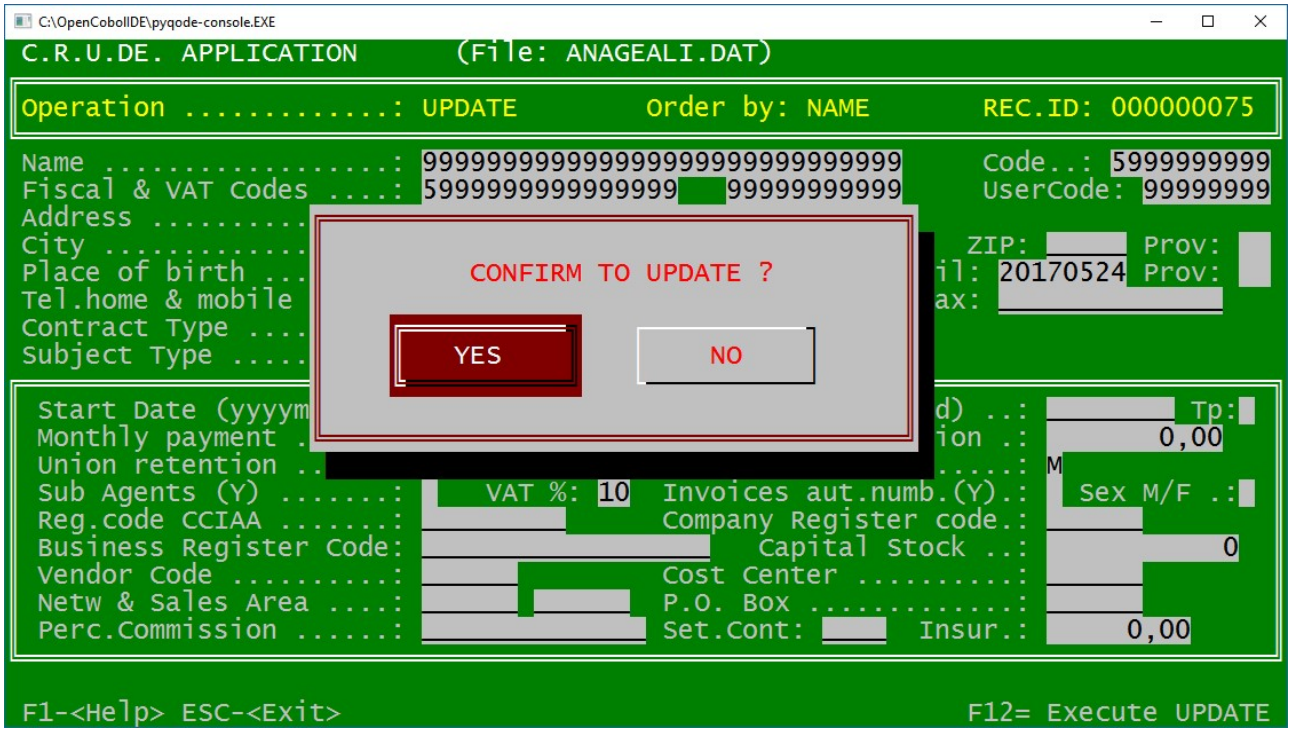
List of files Record.

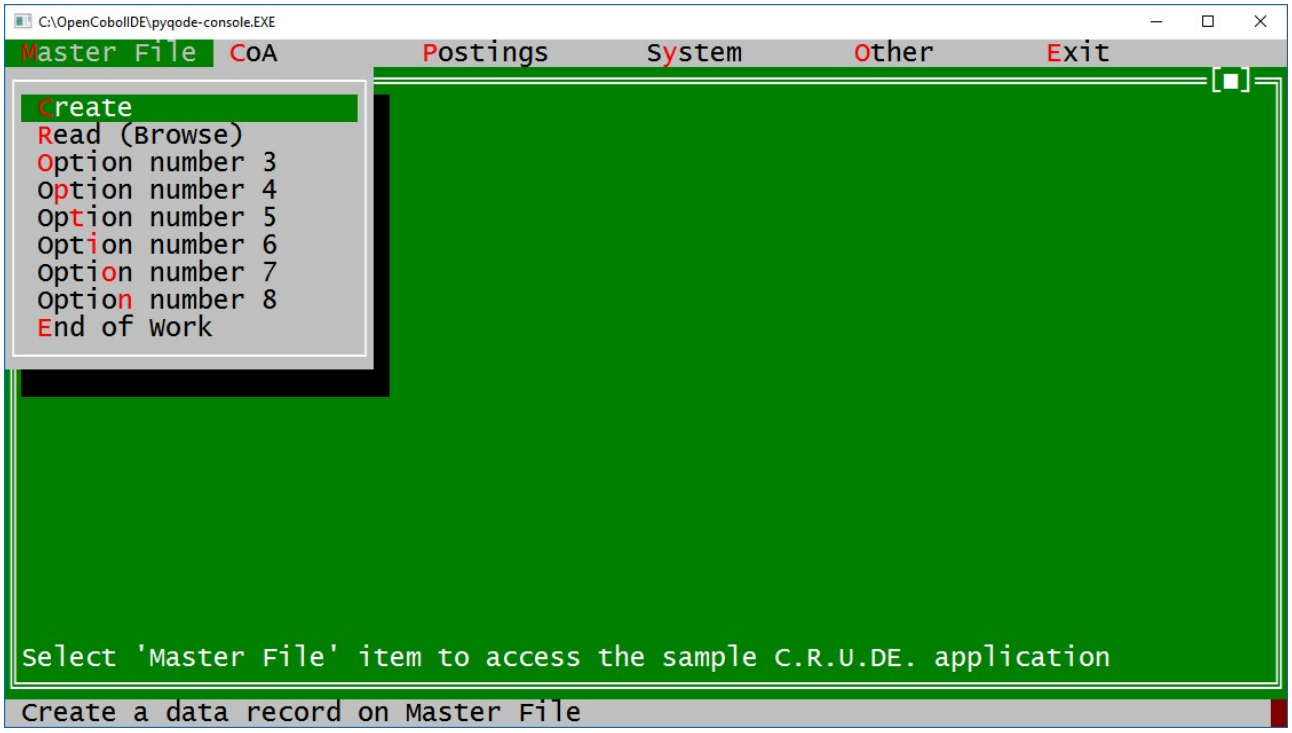


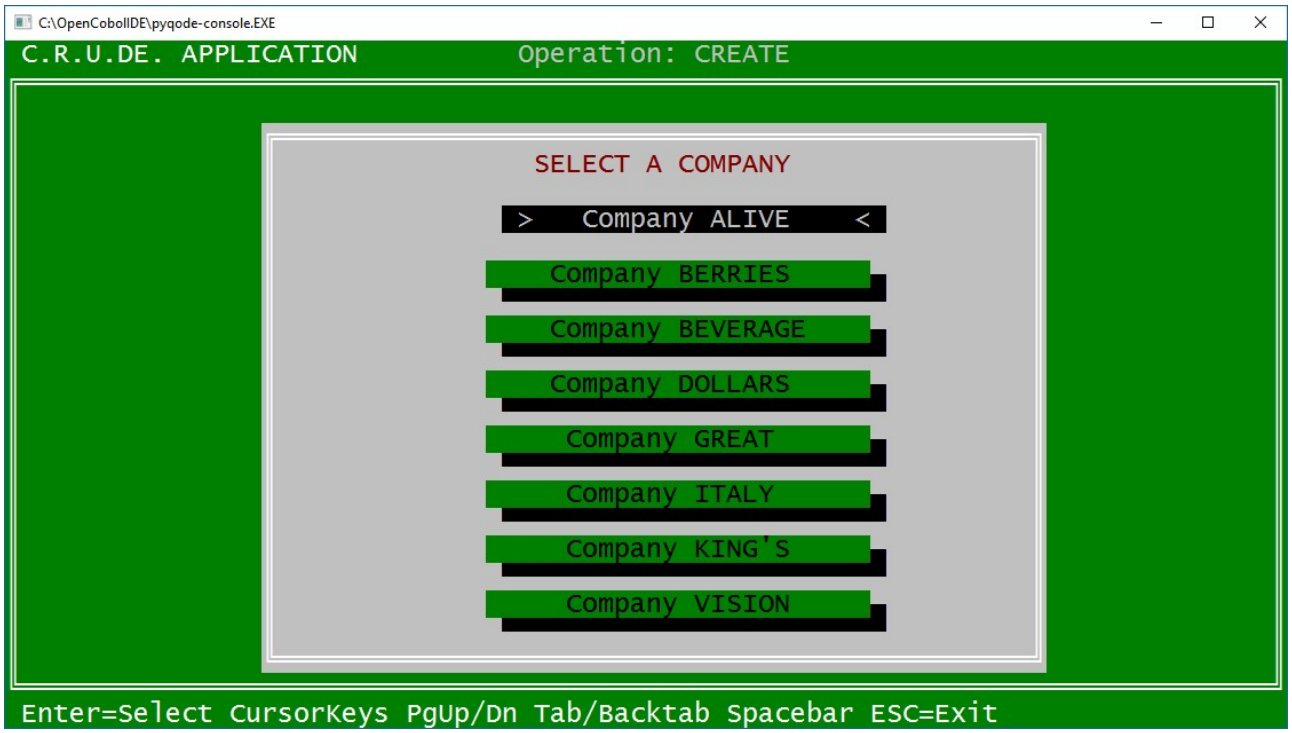
If you hit "enter" on a record you get the record in edit mode.
If you are on a date field you can type F4 Datepicker ...



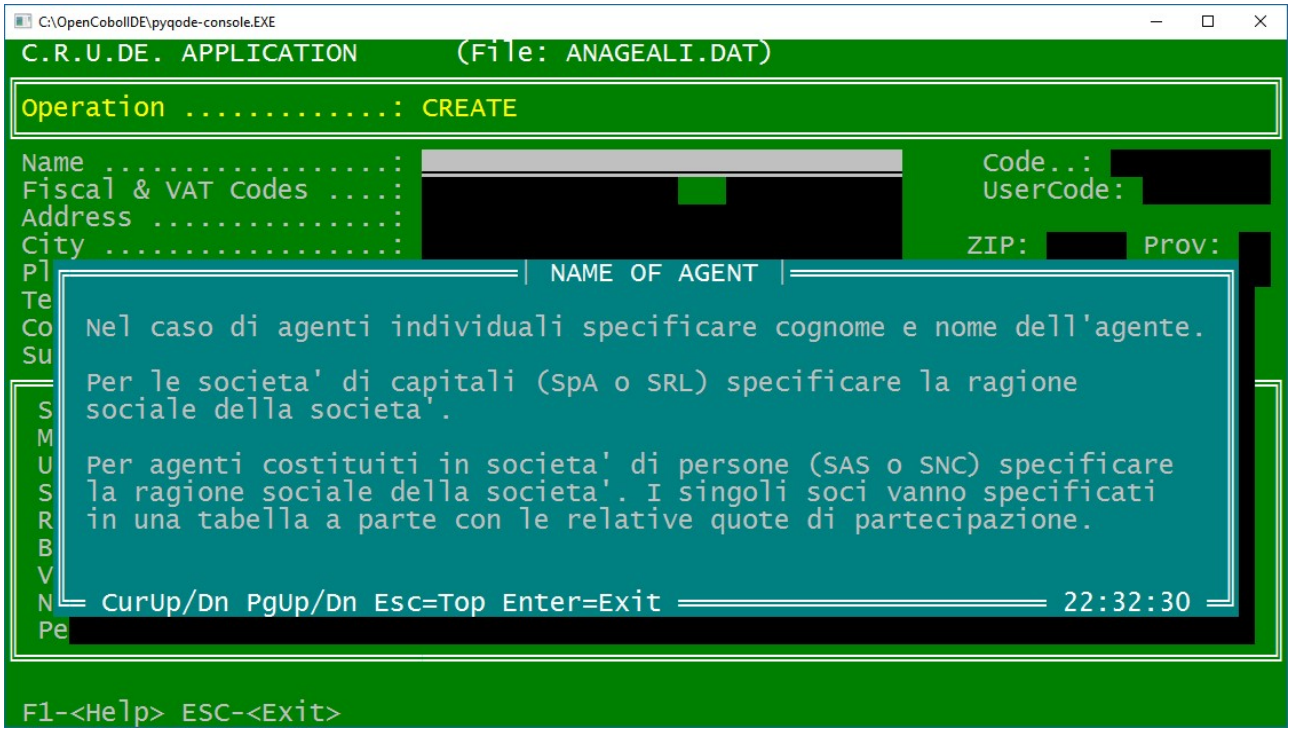
Type enter on each field and after the last field you have enabled F12 Execute

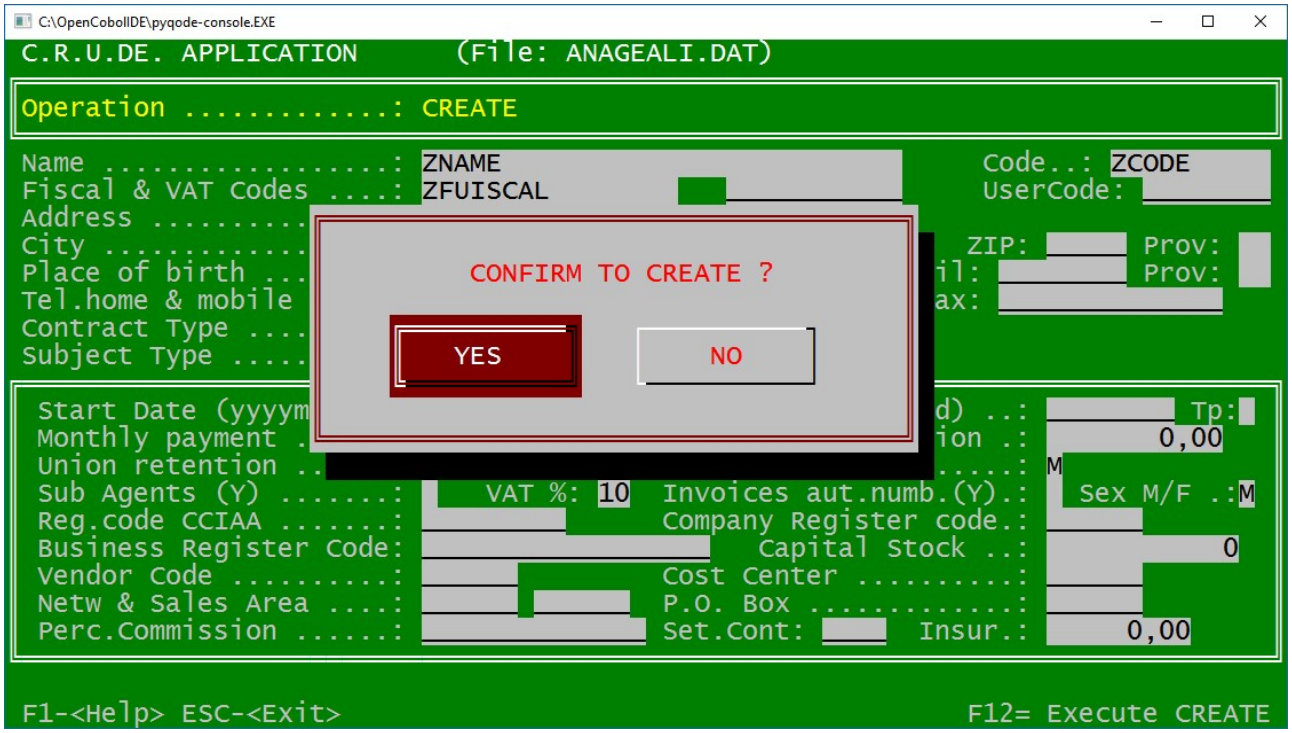


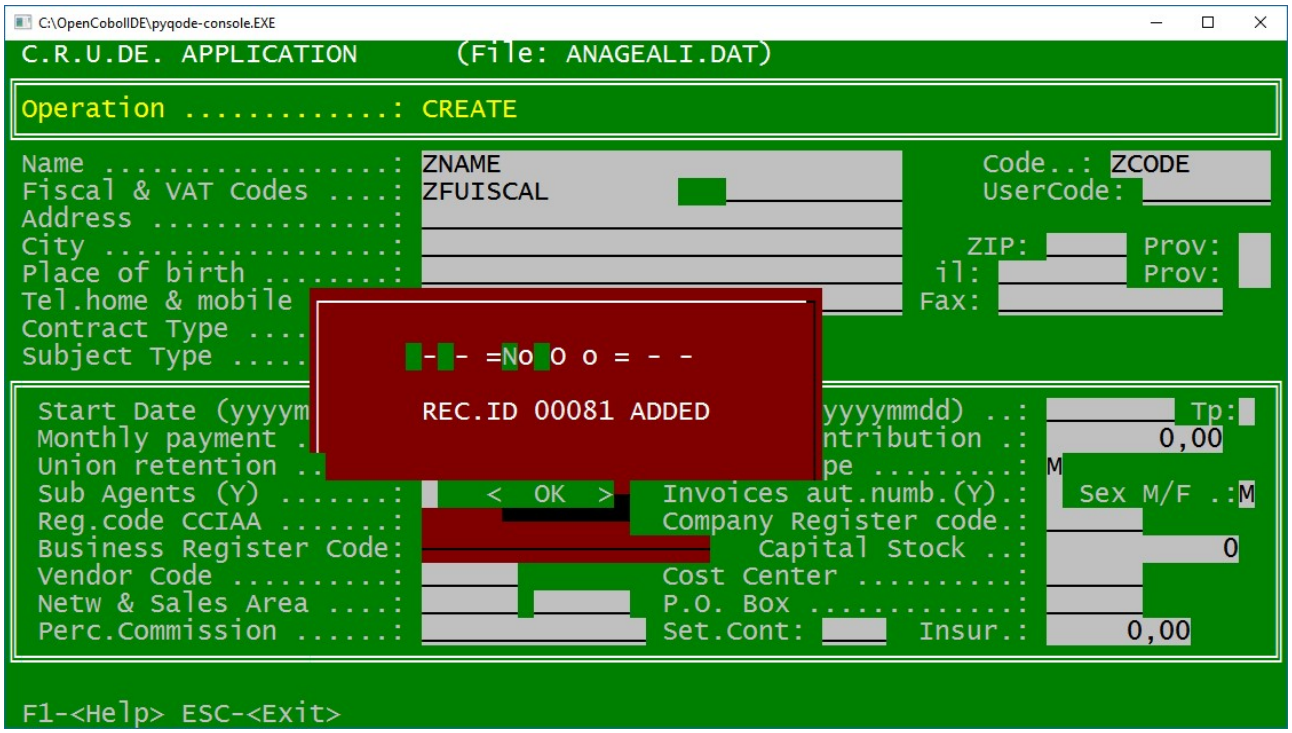


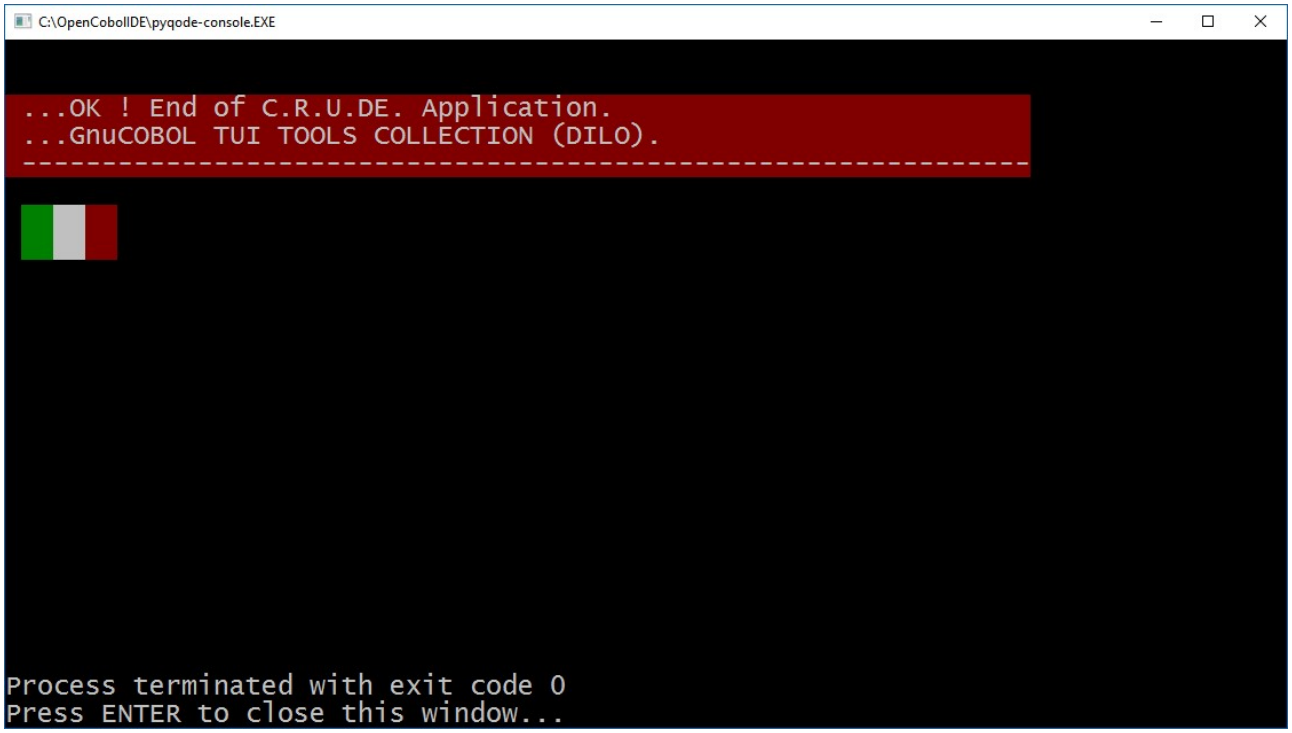


If you hit F1 Help you get a scrolling help message on that fiedl




C:\OpenCobolIDE\pyqode-console.EXE
C.R.U.DE. APPLICATION (File: ANAGEALI.DAT)
Operation .....: CREATE
Name .....: ZNAME
Code..: ZCODE
Fiscal & VAT Codes ....: ZFUISCAL
UserCode:
Address .....
City .....
ZIP:
Prov:
Place of birth ...
Prov:
Tel.home & mobile
Contract Type ....
Subject Type .....
CONFIRM TO CREATE ?
YES
NO
Start Date (yyyym
Tp:
Monthly payment ..
0,00
Union retention ..
Sub Agents (Y) .....:
VAT %: 10
Invoices aut.numb.(Y).:
Sex M/F .:M
Reg.code CCIAA .....:
Company Register code.:
Business Register Code:
Capital Stock ..:
0
Vendor Code .....:
Cost Center .....:
Netw & Sales Area ....:
P.O. Box .....:
Perc.Commission .....:
Set.Cont:
Insur.:
0,00
F1-<Help> ESC-<Exit>
F12= Execute CREATE


C:\OpenCobolIDE\pyqode-console.EXE
C.R.U.DE. APPLICATION (File: ANAGEALI.DAT)
Operation .....: CREATE
Name .....: ZNAME
Code..: ZCODE
Fiscal & VAT Codes ....: ZFUISCAL
UserCode:
Address .....
City .....
ZIP:
Prov:
Place of birth .....
Prov:
Tel.home & mobile
Fax:
Contract Type ....
Subject Type .....
- - =No O o = - -
REC.ID 00081 ADDED
< OK >
Start Date (yyyym
Tp:
Monthly payment ..
0,00
Union retention ..
Sub Agents (Y) .....:
Invoices aut.numb.(Y).:
Sex M/F .:M
Reg.code CCIAA .....:
Company Register code.:
Business Register Code:
Capital Stock ..:
0
Vendor Code .....:
Cost Center .....:
Netw & Sales Area ....:
P.O. Box .....:
Perc.Commission .....:
Set.Cont:
Insur.:
0,00
F1-<Help> ESC-<Exit>


C:\OpenCobolIDE\pyqode-console.EXE
...OK ! End of C.R.U.DE. Application.
...GnuCOBOL TUI TOOLS COLLECTION (DILO).
Process terminated with exit code 0
Press ENTER to close this window...