HMGCase for DBF

Quick manual

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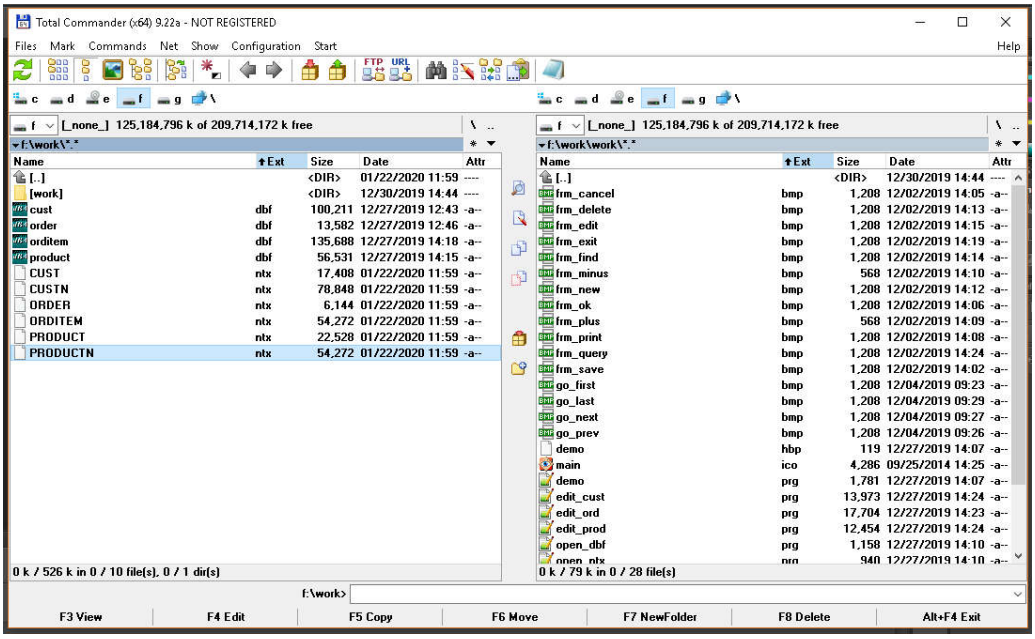
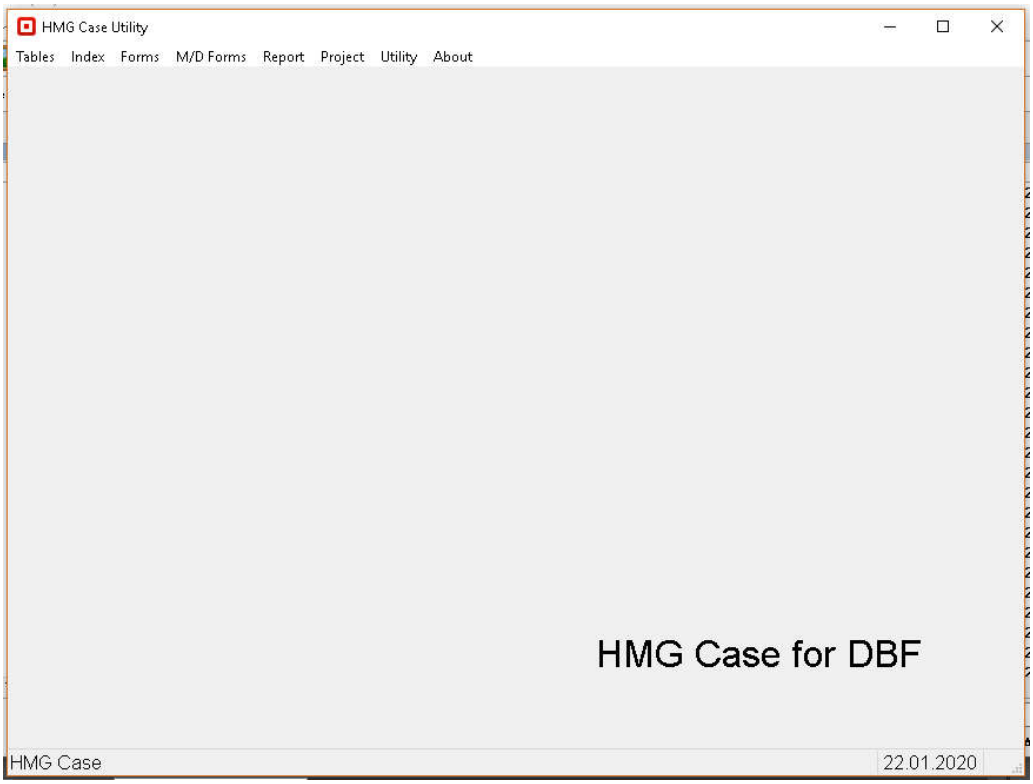
At start

You have hmgcase.exe and add folder with icons (bmp) and sbr_lov.prg with basic functions.

You probably have a folder with your data, DBF and NTX, select it



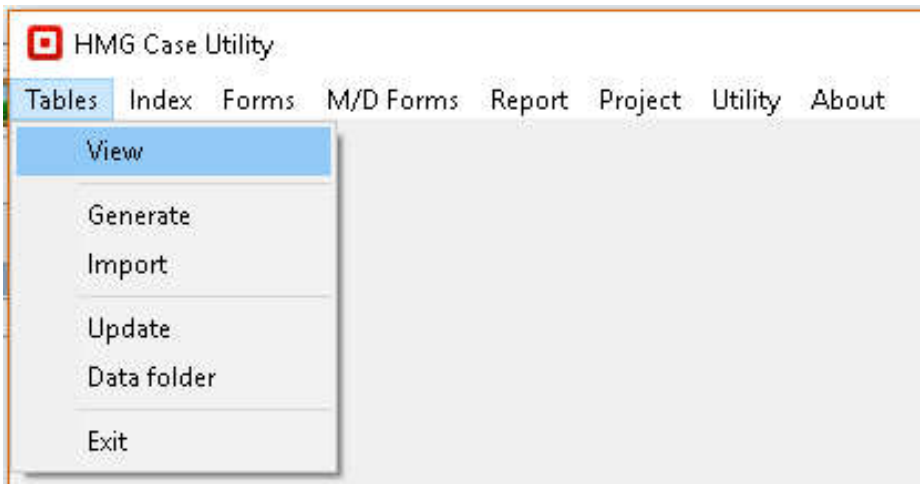
Just start hmgcase.exe



What's happend? Nothing or something?

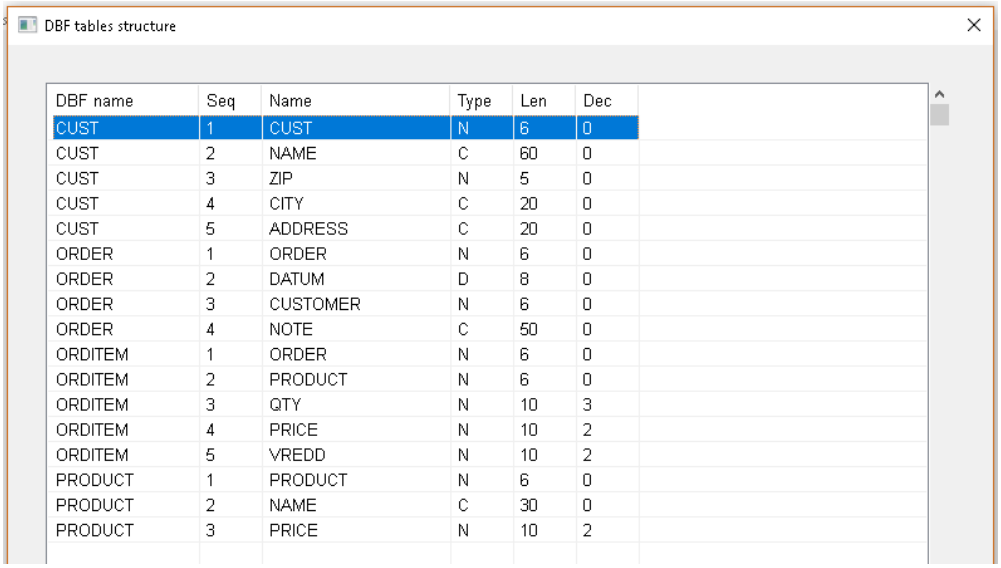
Note: table is DBF file

Tables



View

Click on Tables-View you can see table structure



DBF name	Seq	Name	Type	Len	Dec
CUST	1	CUST	N	6	0
CUST	2	NAME	C	60	0
CUST	3	ZIP	N	5	0
CUST	4	CITY	C	20	0
CUST	5	ADDRESS	C	20	0
ORDER	1	ORDER	N	6	0
ORDER	2	DATUM	D	8	0
ORDER	3	CUSTOMER	N	6	0
ORDER	4	NOTE	C	50	0
ORDITEM	1	ORDER	N	6	0
ORDITEM	2	PRODUCT	N	6	0
ORDITEM	3	QTY	N	10	3
ORDITEM	4	PRICE	N	10	2
ORDITEM	5	VREDD	N	10	2
PRODUCT	1	PRODUCT	N	6	0
PRODUCT	2	NAME	C	30	0
PRODUCT	3	PRICE	N	10	2

When exit program you can see **open_dbf.prg** with table structure, function create table if not exsist.

Sample:

```
*:************************
*: Program OPEN_DBF.PRG
*:************************
PROCEDURE open_dbf

LOCAL alist_fld

if ! file ("CUST.dbf")
   alist_fld := {}
   aadd(alist_fld,{"CUST","N",6,0})
   aadd(alist_fld,{"NAME","C",60,0})
   aadd(alist_fld,{"ZIP","N",5,0})
   aadd(alist_fld,{"CITY","C",20,0})
   aadd(alist_fld,{"ADDRESS","C",20,0})
   dbcreate("CUST",alist_fld)
endif
```

etc

Generate

Create open_dbf.prg

Import

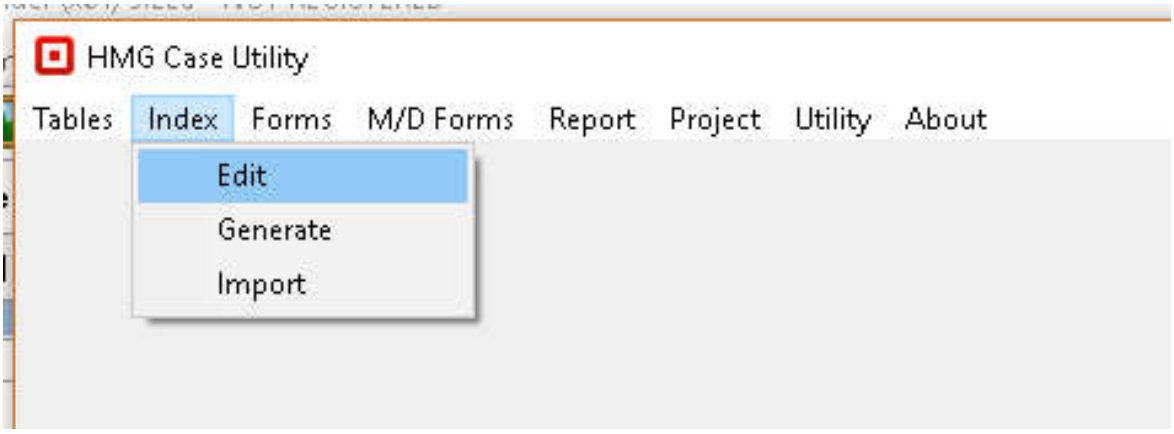
After change structure you can import new structure

Update

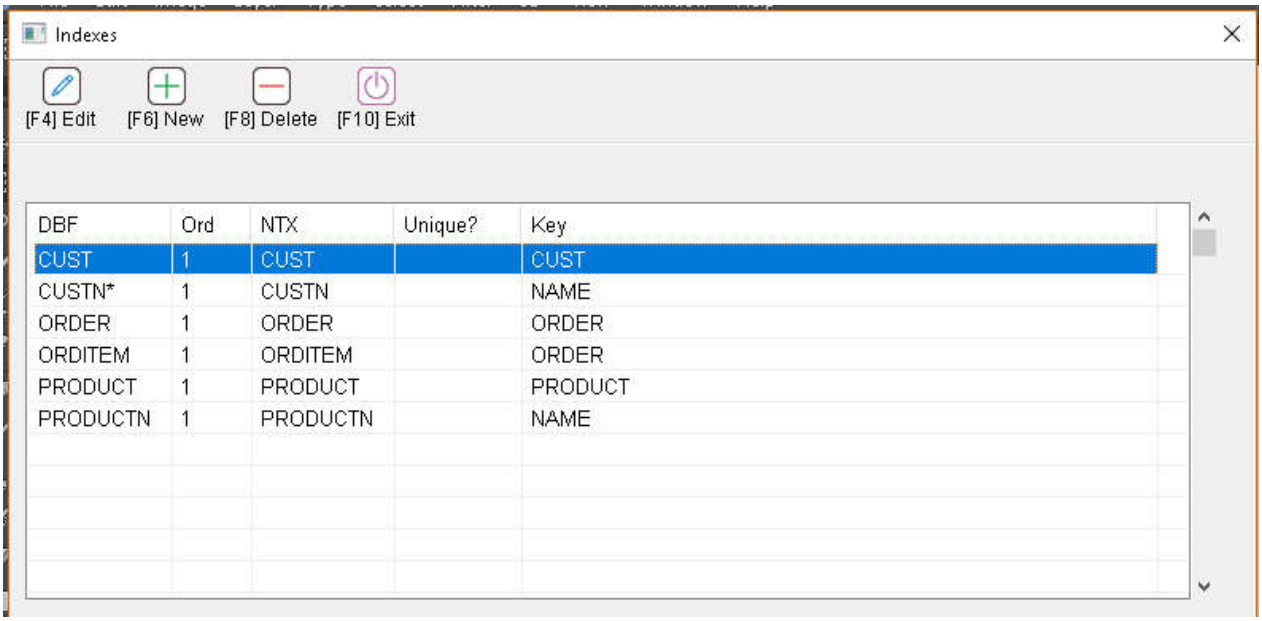
On table right click you have two option, delete from data dictionary or update structure.

Index

For index maintaince



Edit

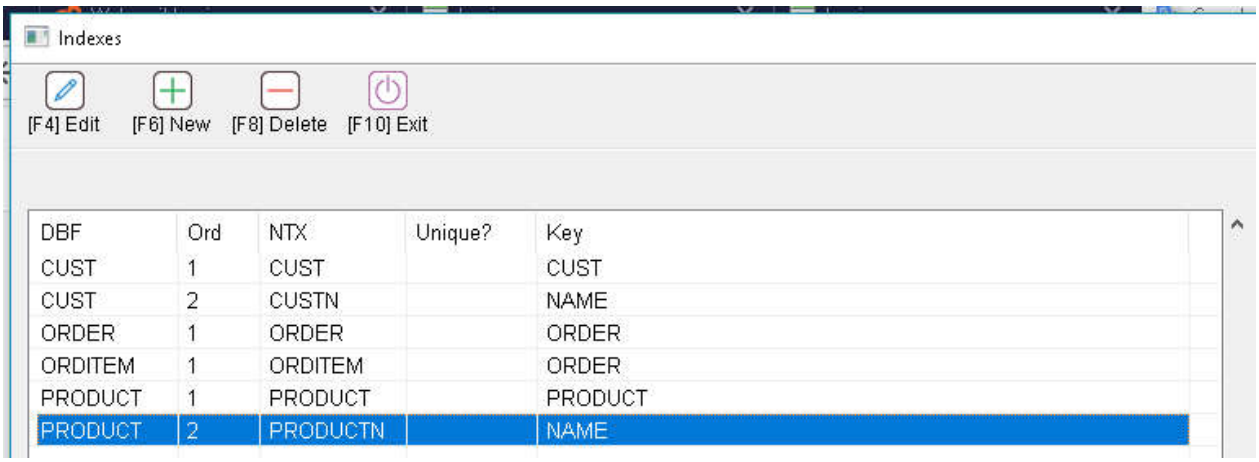


Import

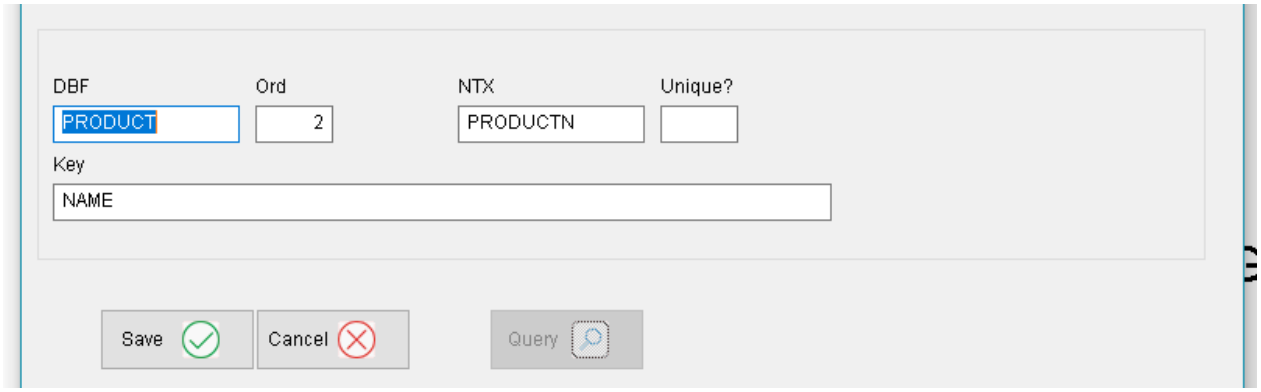
Like table, program import indexes. One table can have many indexes,

If the table has multiple index then you must mark it
help: if there is no table like index then it is marked with * at the end

like in this case



Edit, New or Delete can be with Function keys or click on button.



Generate

After change indexes you can create **open_ntx.prg**, function for create indexes if not exsist, and function for reindex.

Sample:

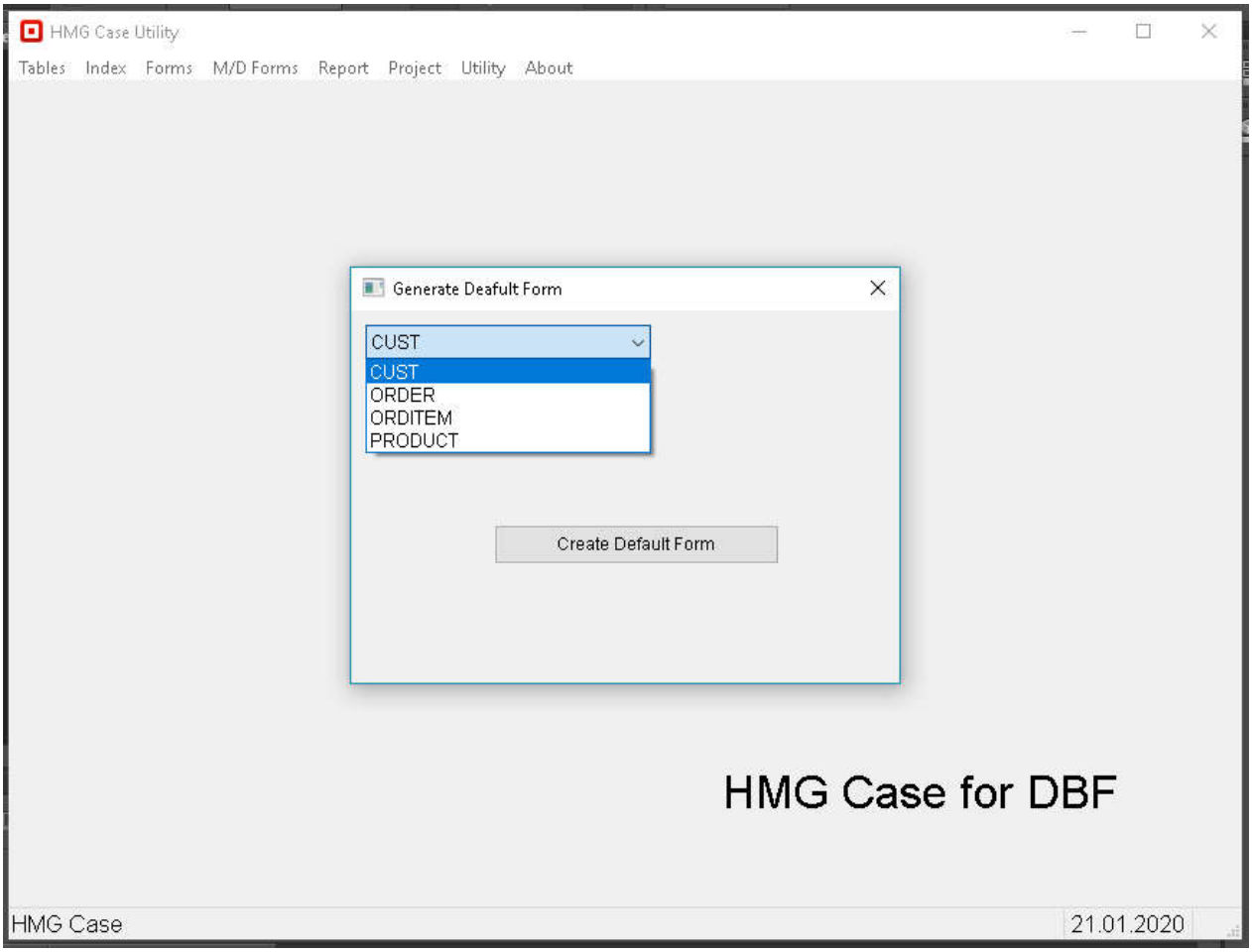
```
*:*************************
*: Program OPEN_NTX.PRG
*:*************************
PROCEDURE open_ntx
if ! file ("CUST.ntx")
   use CUST
   index on CUST to CUST
   use
endif
etc
RETURN
*:*************************
*: Program RE_INDEX.PRG
*:*************************
PROCEDURE re_index
   DELETE FILE CUST.ntx
etc
   open_ntx()
RETURN
```

Forms

Create simple form, one table on screen.

Default

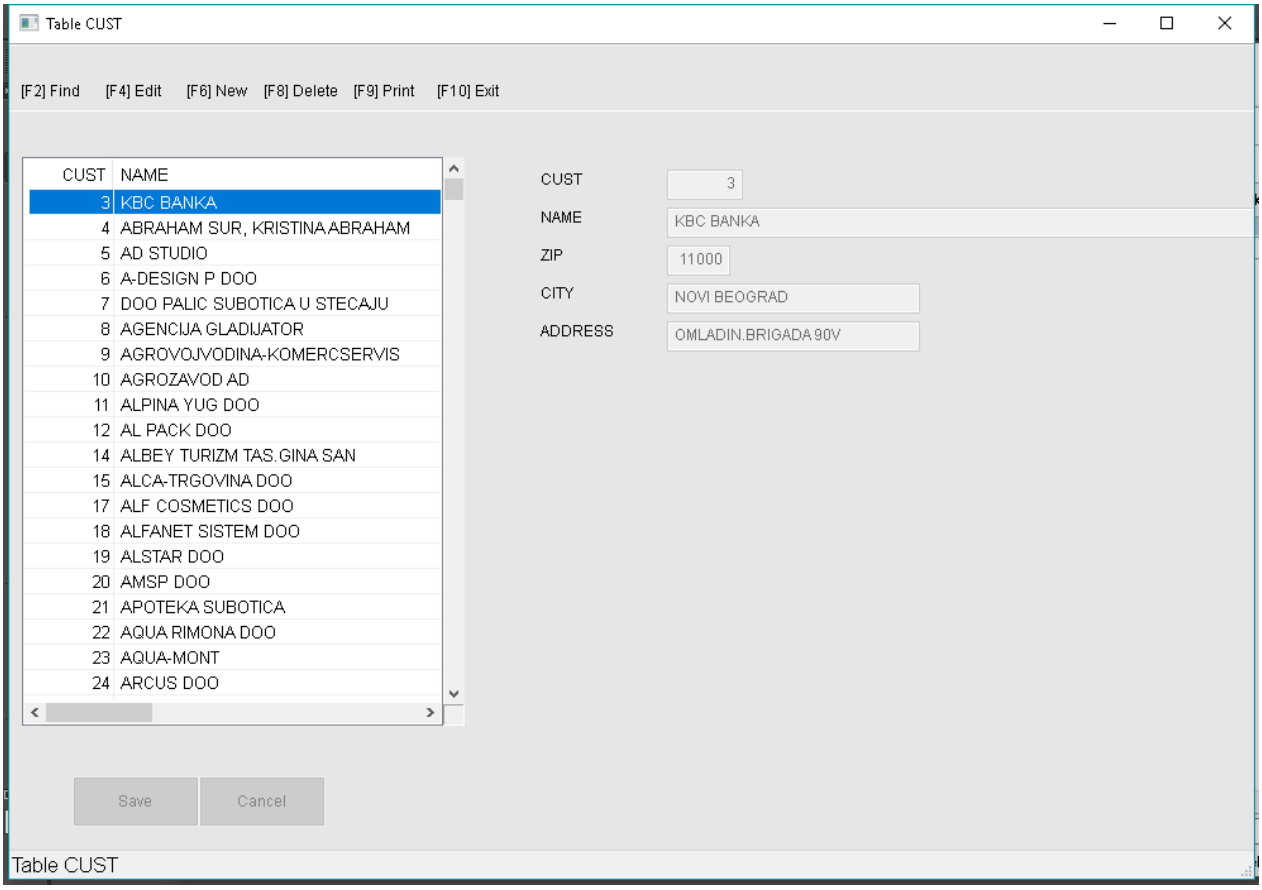
Just select table and clik button Create Deafault Form



If you want quick program, select Forms->Generate and be create edit_1.prg

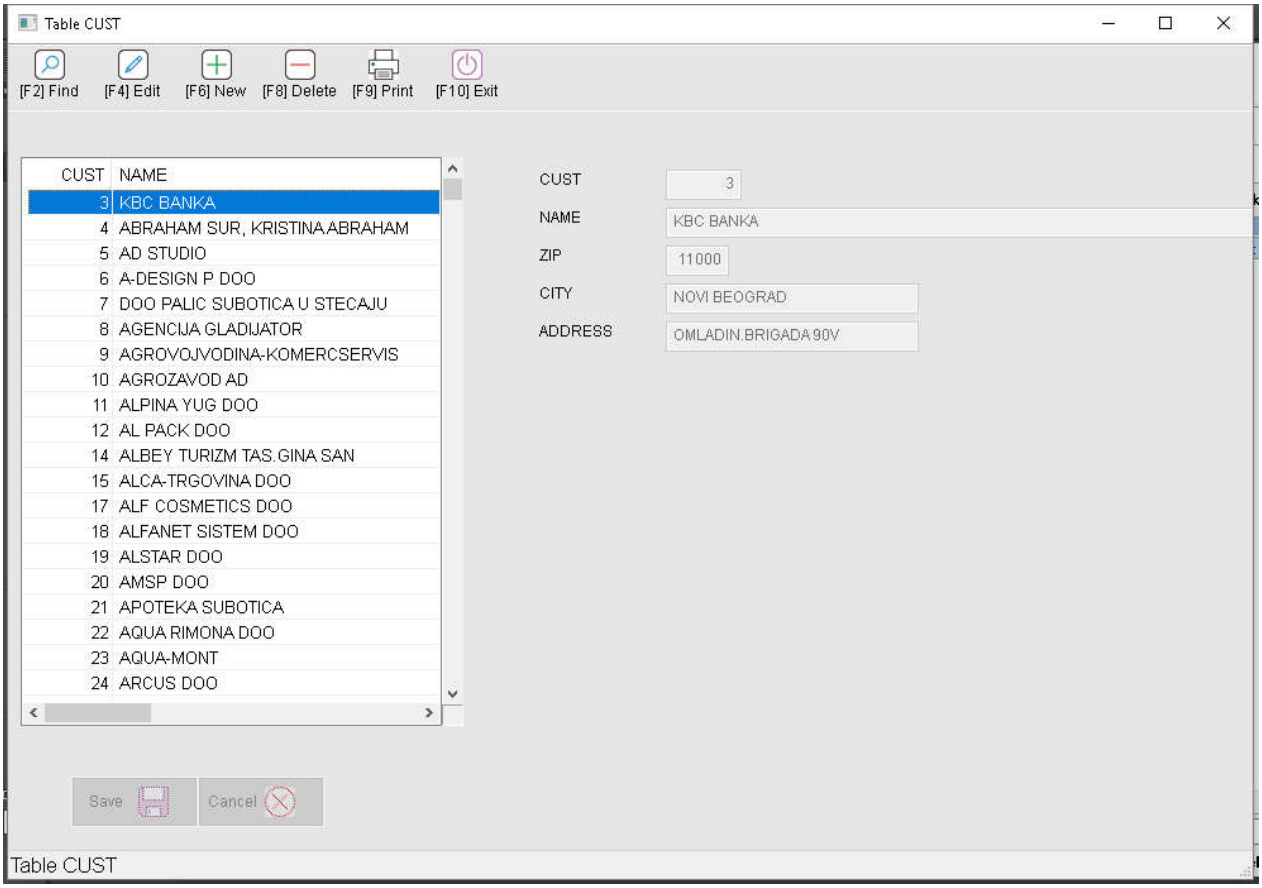
Build edit_1.prg

And see



It’s run program in minute

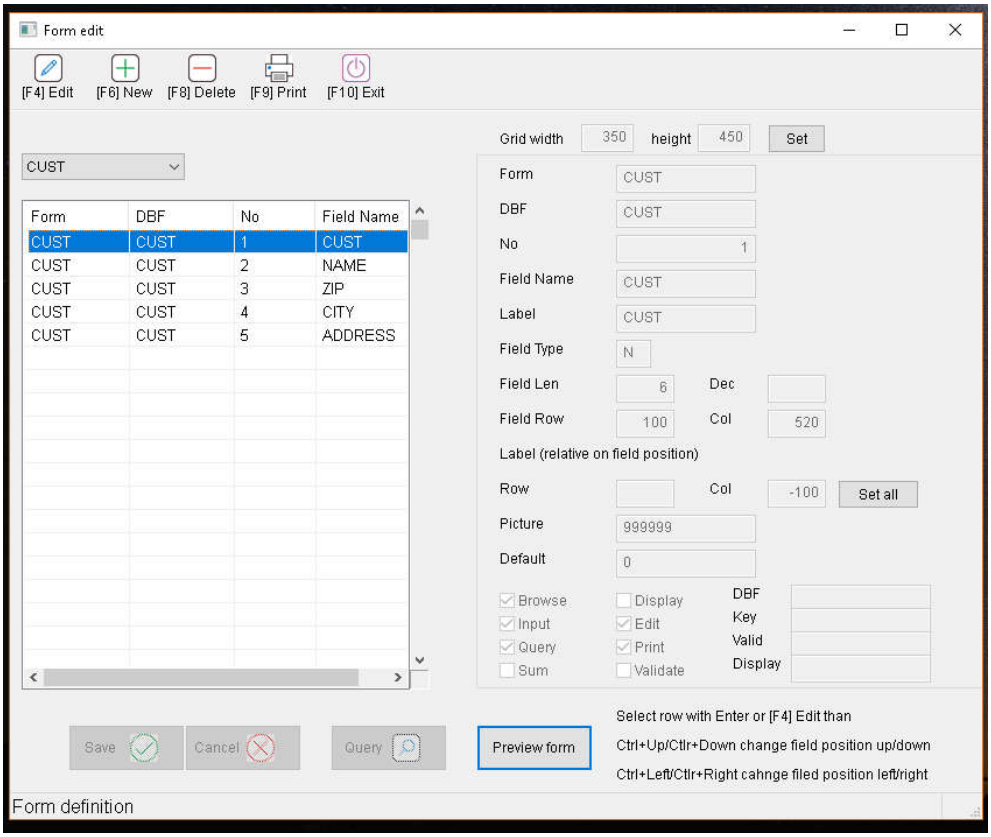
Look TOOLBAR, have all function for data manipulation: Find, Edit, New, Delete, and finish action with Save or Cancel. No icons, but if copy added icons program have new appearance.

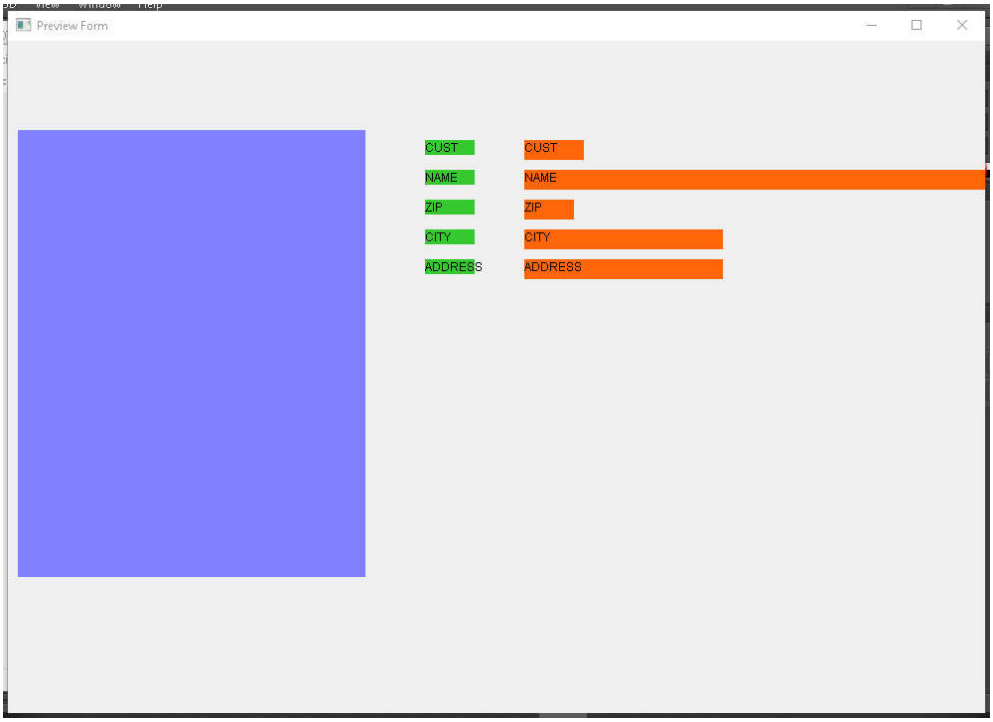


Icons are in BMP, you have use yours.

Edit

When clik this option you can see like this. Left grid are fields, on the right field definition.





Button Preview Form display field positon on screen.

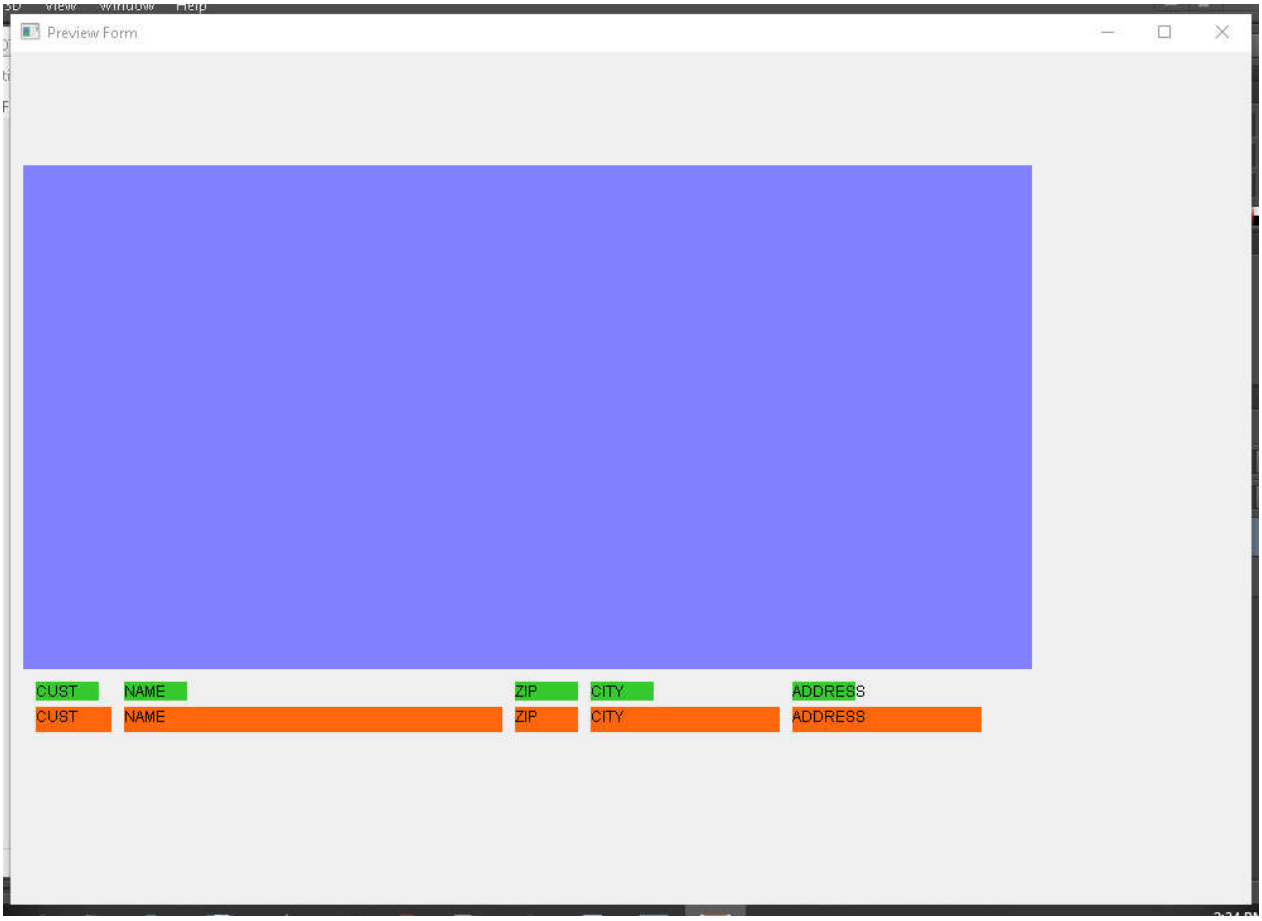
Note: both window see on Full HD monitor(1920x1080)

Now you can change grid, top button Set.

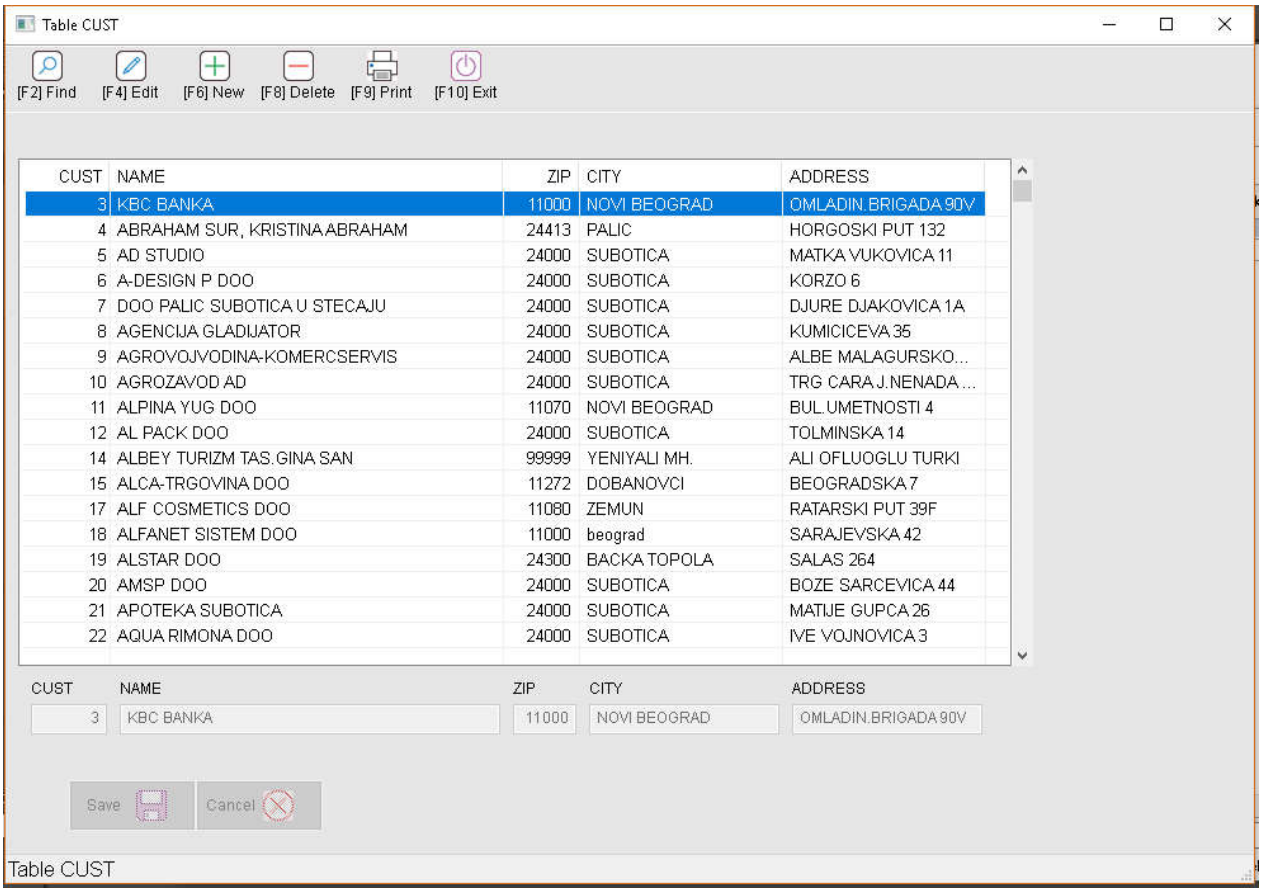
For field: you change row and col position, picture and default value. Edit with F4 or Enter. Quick change position with Ctrl + Up/Down (row) and Ctrl+left/Right key (col).

Field and label position

Label will be display before filed, defined down of field position. Default is 0,-100 that is left from filed. You can set all labels like -20, 0 is up on the field. This is when you position filed under grid, like



Then program run like



Insert or delete field

Delete is simple, just press F8 and confirm. It is not necessary for all fields to be displayed.

Insert field, press F6. DBF is $ (display only), enter field name, type and position. This is simple form, not necessary for this field and no sample use display field.

Attribute field

Browse – is display on grid, with Input and Edit you can enable/disable for Input or Edit value.

When need Sumary set Sum, and sum be display on screen.

Validate – control with List of Value will be explained later

Generate

Just select form and Generate. Next step is compile.

This is simple Form program, one table with grid and all fields on screen.

Functions key

In all created programs Function key are same.

F2 – Find, press F2 or clik on Find button, enter search criteri and click on Query. Than be display record with select criteria.

F4 – Edit

F6 – New

F8 – Delete

F9 – Print

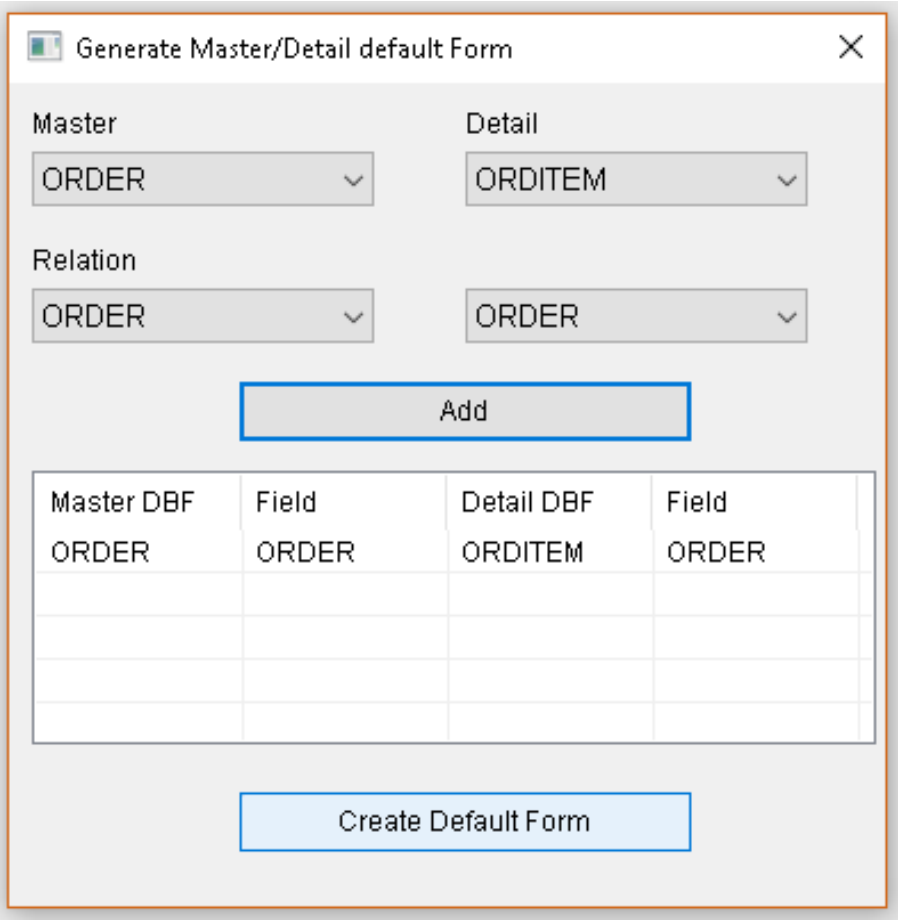
F10 - Exit

M/D Forms

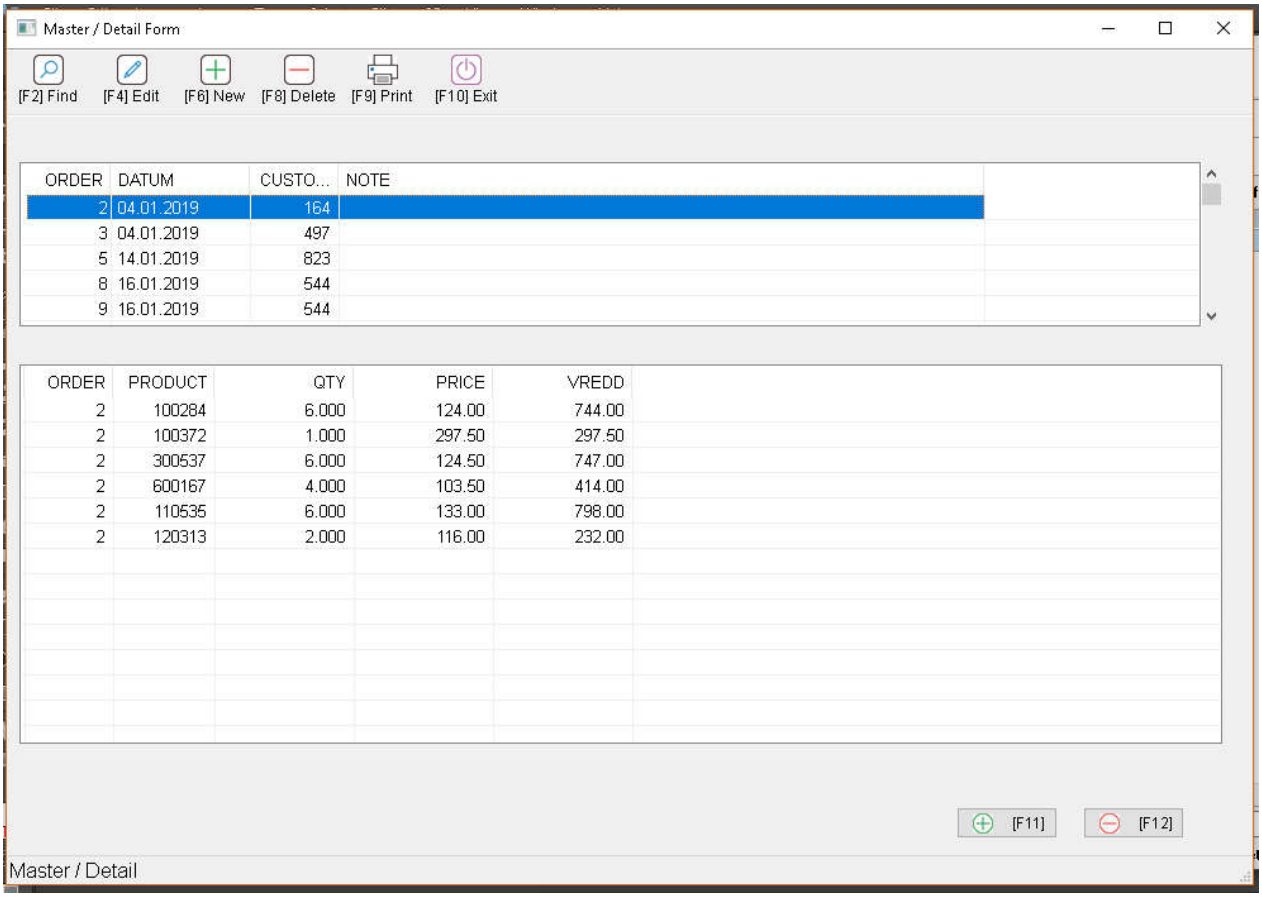
Create Master-Detail Form program, two tables in relations.

Default

Like simple form, in this case you can select two tables, one master and detail, and relation fields, accept with Add button, and nest filed relation. At end clik on Create Default Form.

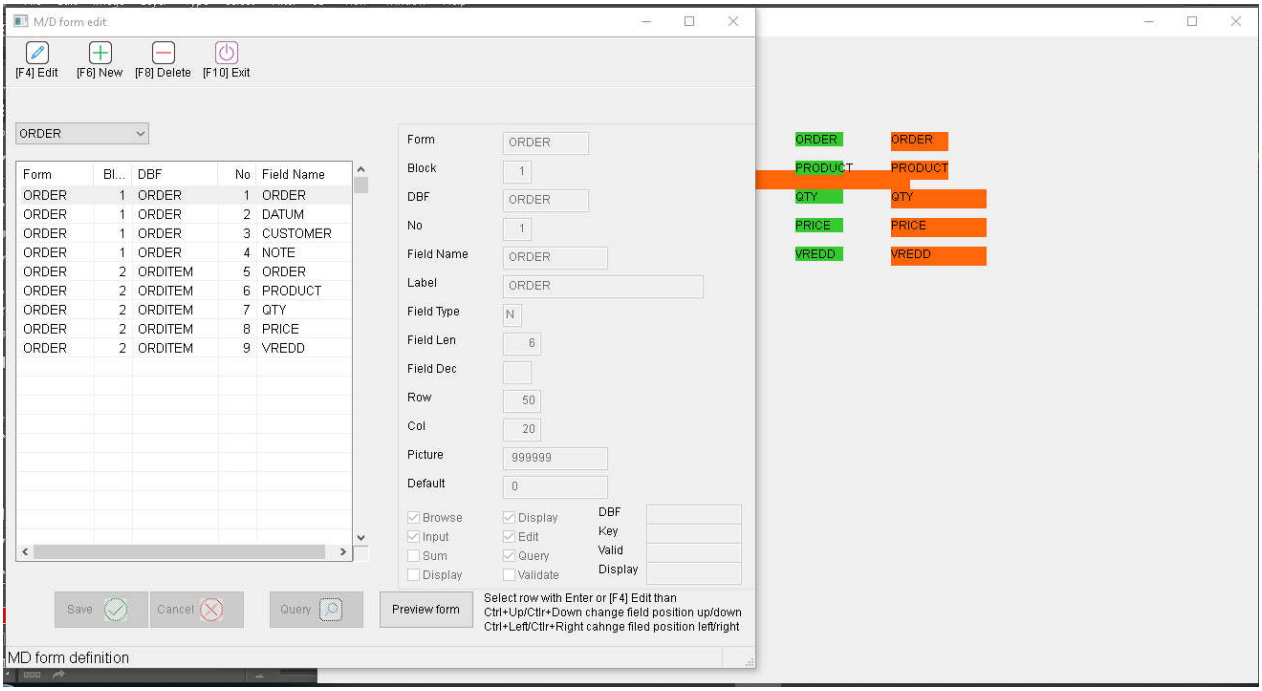


After Generate and compile you can see like



Edit

We have orders and product items on display
If we have a code it would be nice to show a description too, an example is the customer and his name should be shown, we can also show the product name



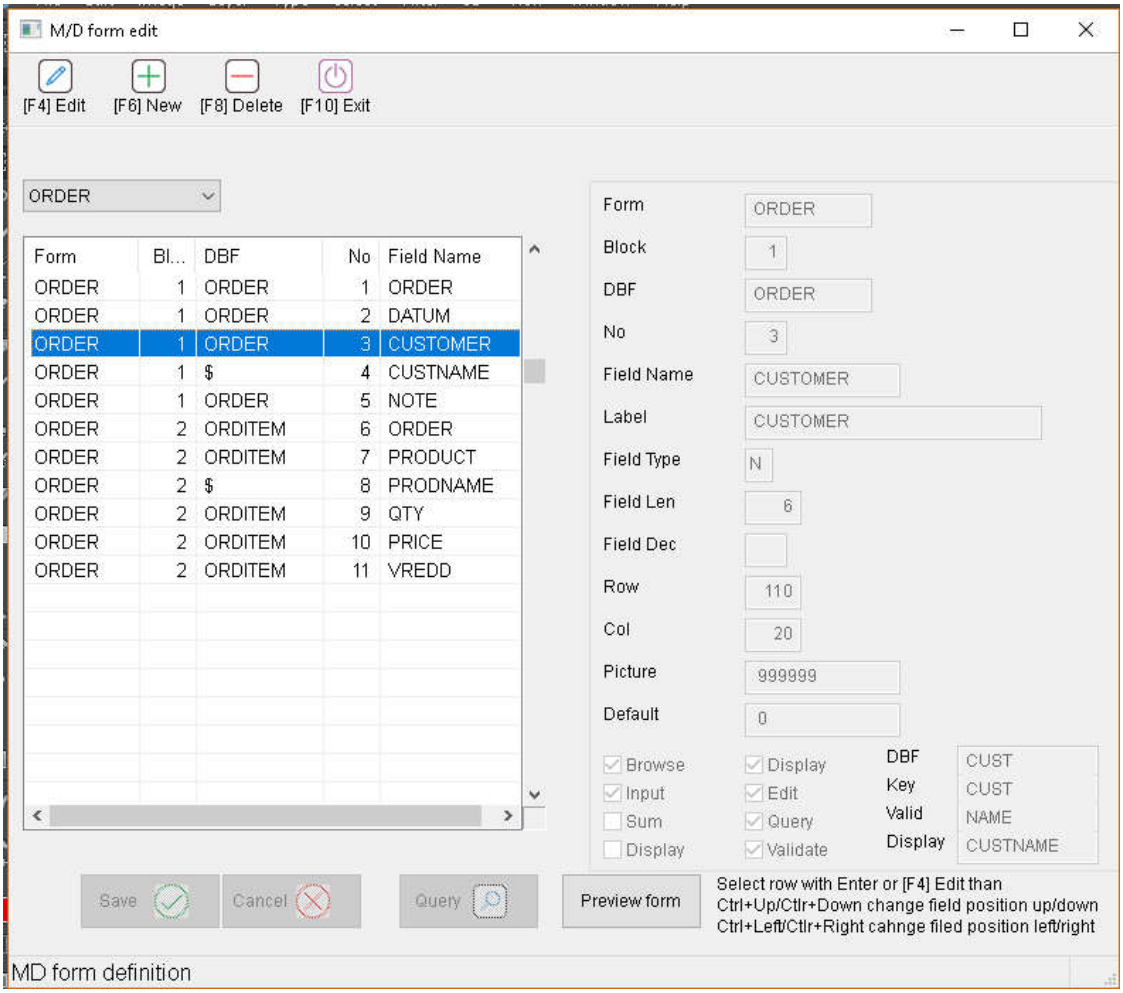
First step, create filed for display names, customer and product.

Insert two field, block 1, CUSTNAME, type C, len 20, position 110,90

And block 2, PRODNAME, type C, len 20, position 130,170

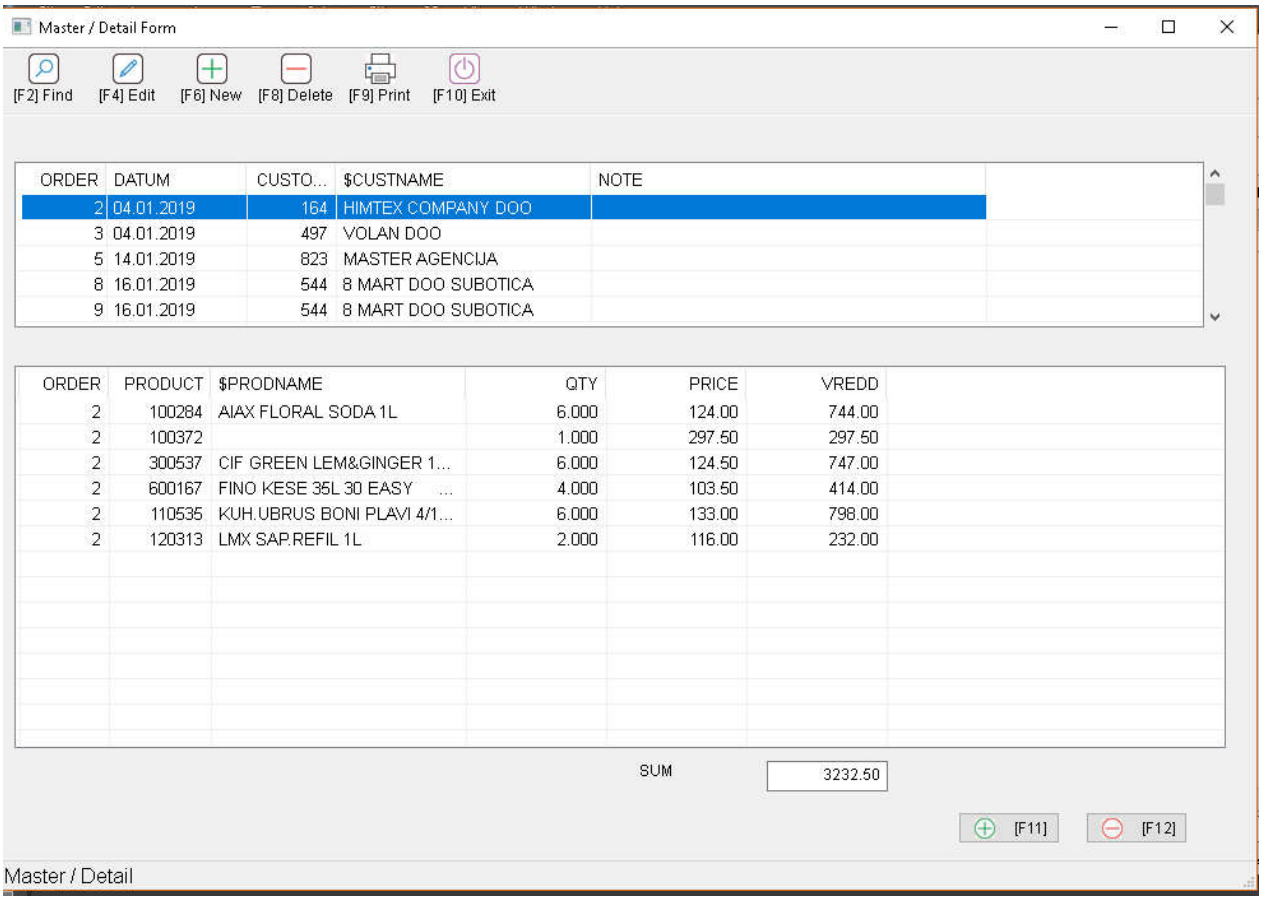
Customer name is table CUST, key CUST, display NAME

Product name is table PRODUCT, key PRODUST, display NAME



Also you can select Sum for field VREDD.

Generate and compile. Program now look like



Program can be nicer, you can change HEADER on BROWSE and GRID, and hide some filed in detail table, set WITHS to 0 (like field ORDER).

Generate

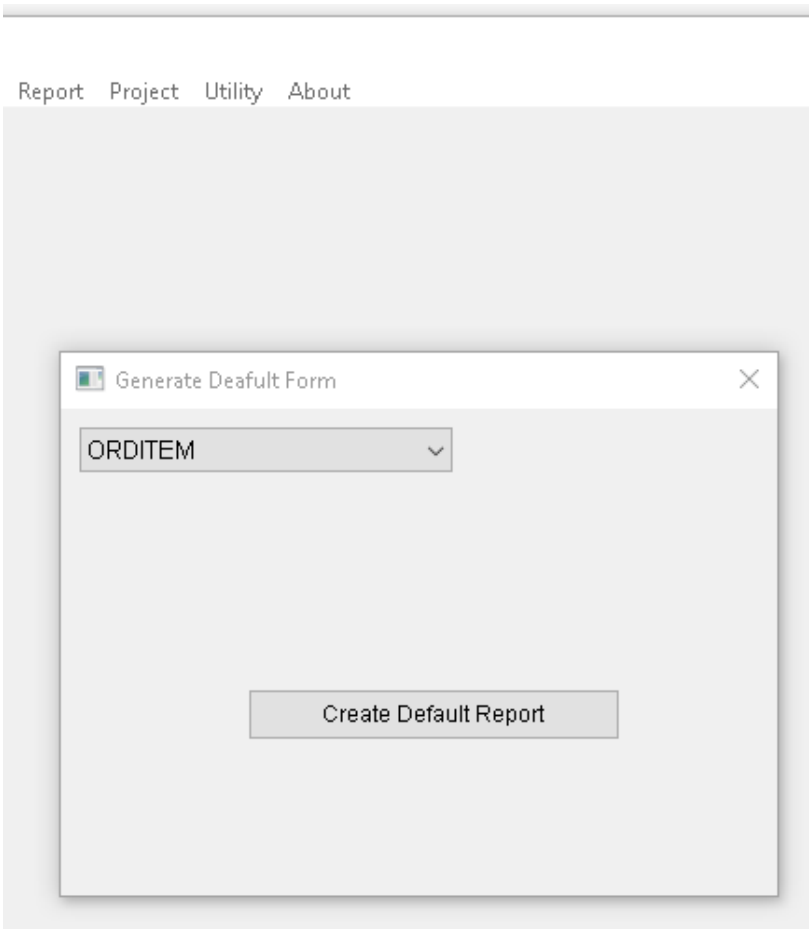
Just select form and Generate. Next step is compile.

This is Master-Detail Form program, one master table with detail table.

Report

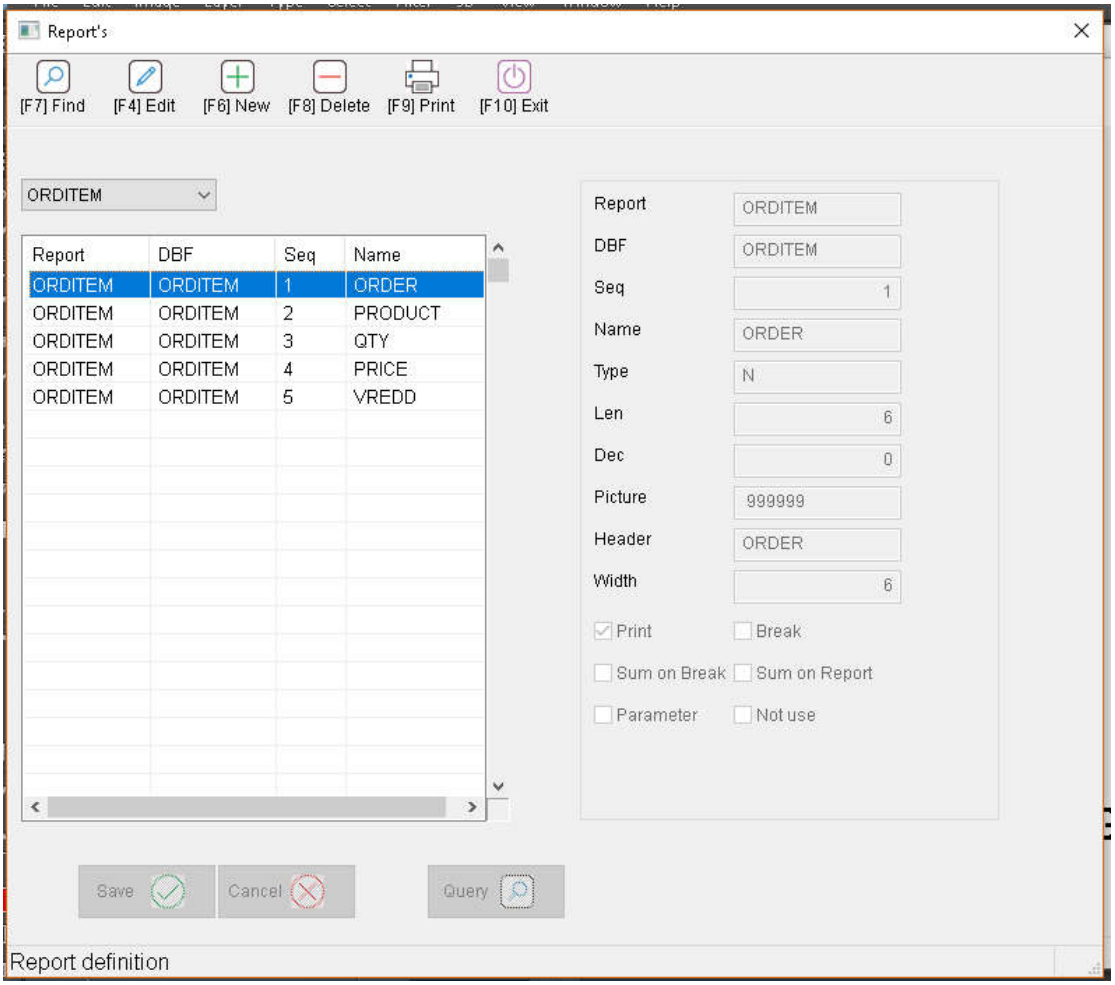
Default

First step is select table and Create Default Report



Edit

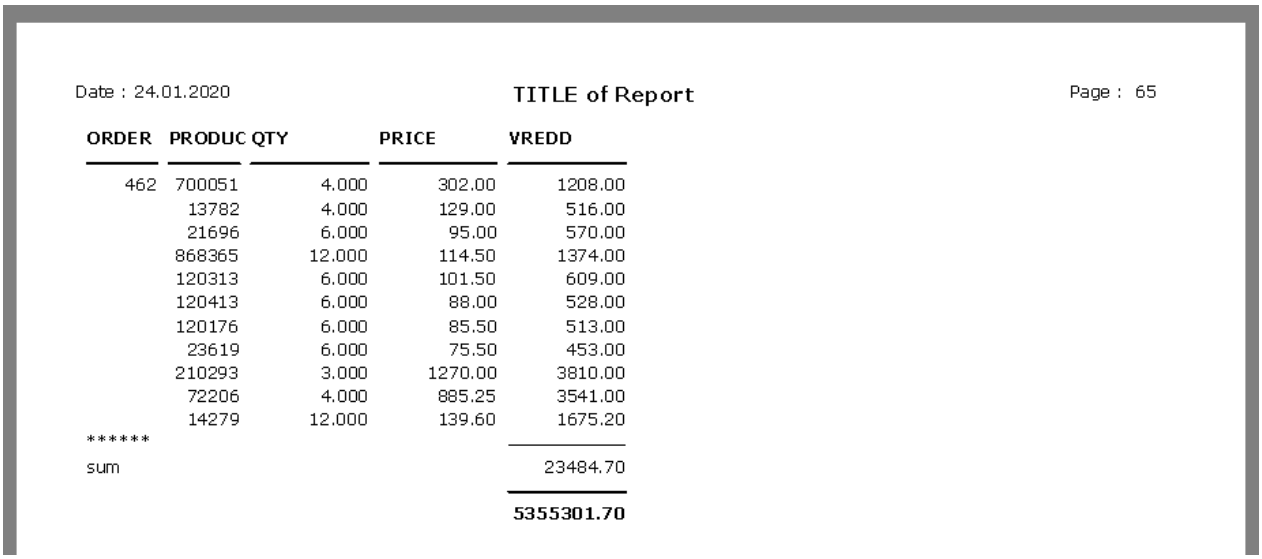
Next step look like Form Edit



Just generate and look Report.

Than change fields, Header, Picture, Width. If you need SUM of field set **Sum on Report,** if need Group set group filed (in this case ORDER), and **Sum on Break** . Generate and compile.

Now report look like (last page)



Date : 24.01.2020 TITLE of Report Page : 65

ORDER	PRODUC	QTY	PRICE	VREDD
462	700051	4.000	302.00	1208.00
	13782	4.000	129.00	516.00
	21696	6.000	95.00	570.00
	868365	12.000	114.50	1374.00
	120313	6.000	101.50	609.00
	120413	6.000	88.00	528.00
	120176	6.000	85.50	513.00
	23619	6.000	75.50	453.00
	210293	3.000	1270.00	3810.00
	72206	4.000	885.25	3541.00
	14279	12.000	139.60	1675.20
******				
sum				23484.70
				5355301.70

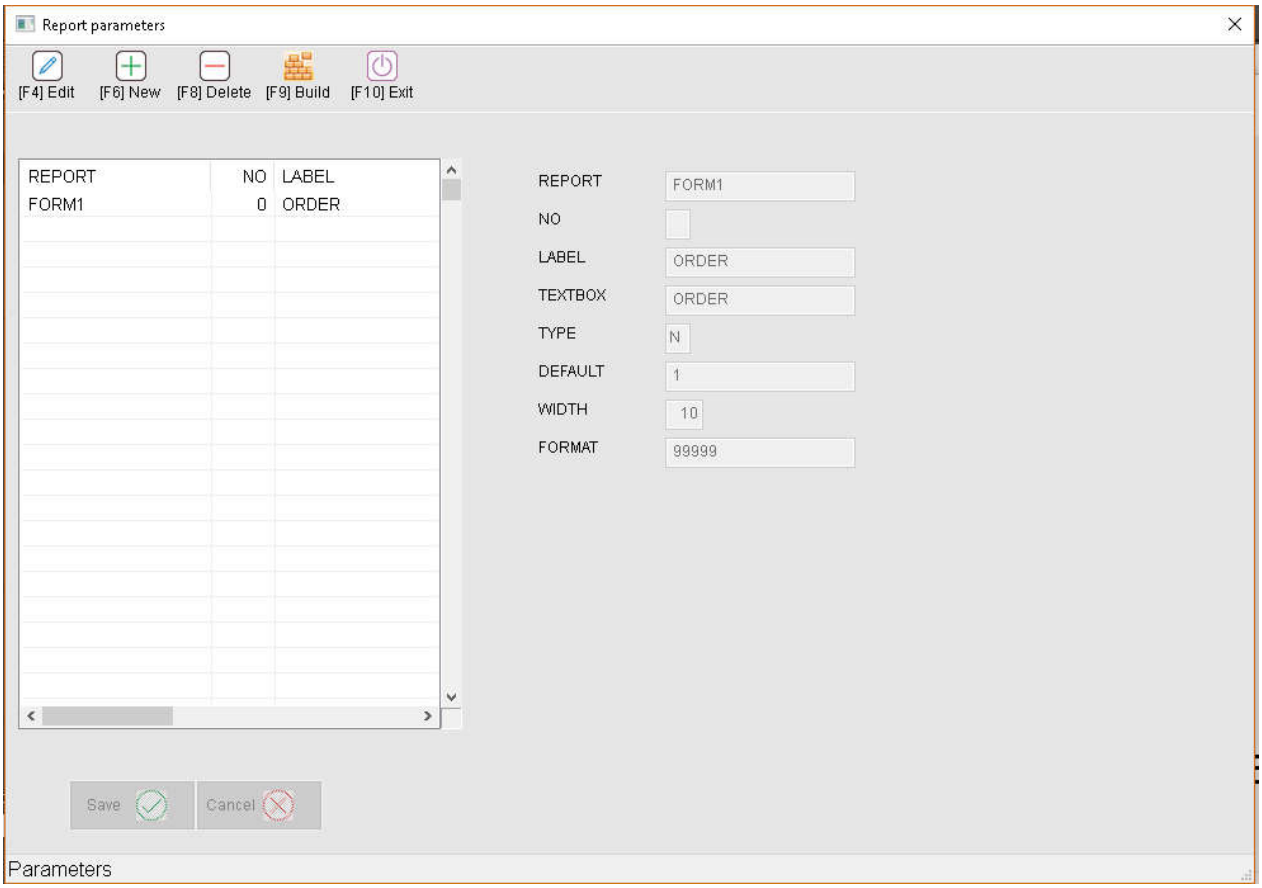
Generate

When field defined just Generate and Compile.

Parameters

Report usually need parameters, this is for create param.prgthen insert in report

Insert field and press F9 Build than create param.prg

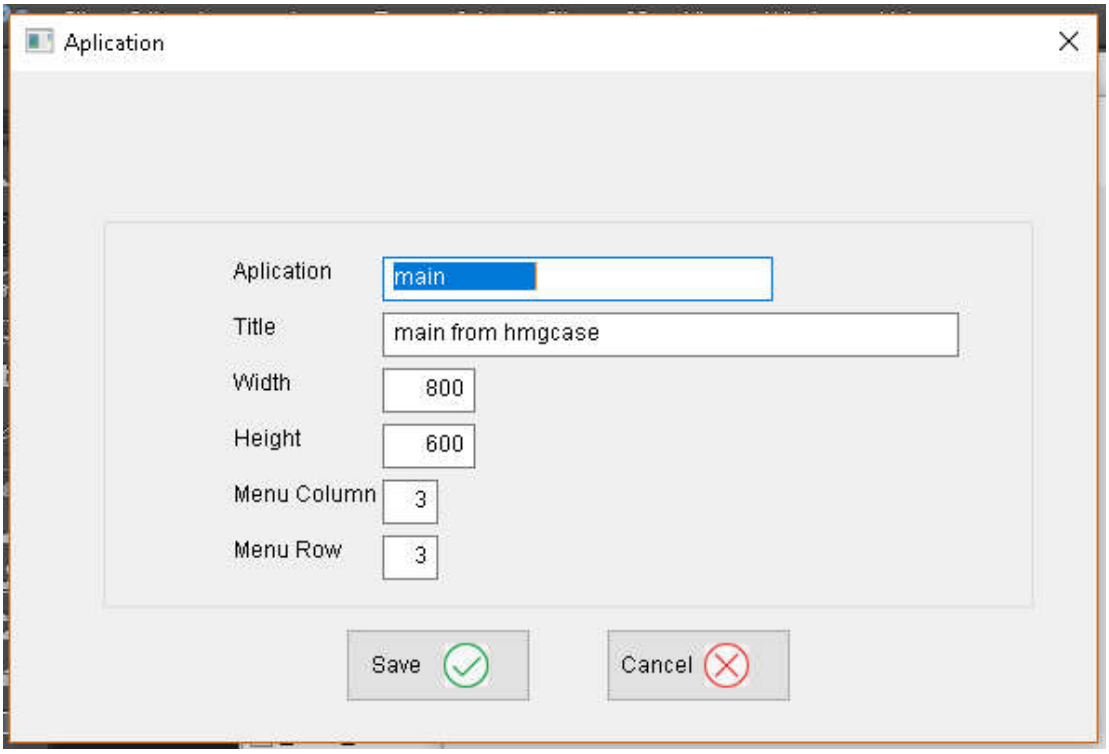


Project

Aplication

If the program has more features / options then it probably has a menu that will display it in a nicer way

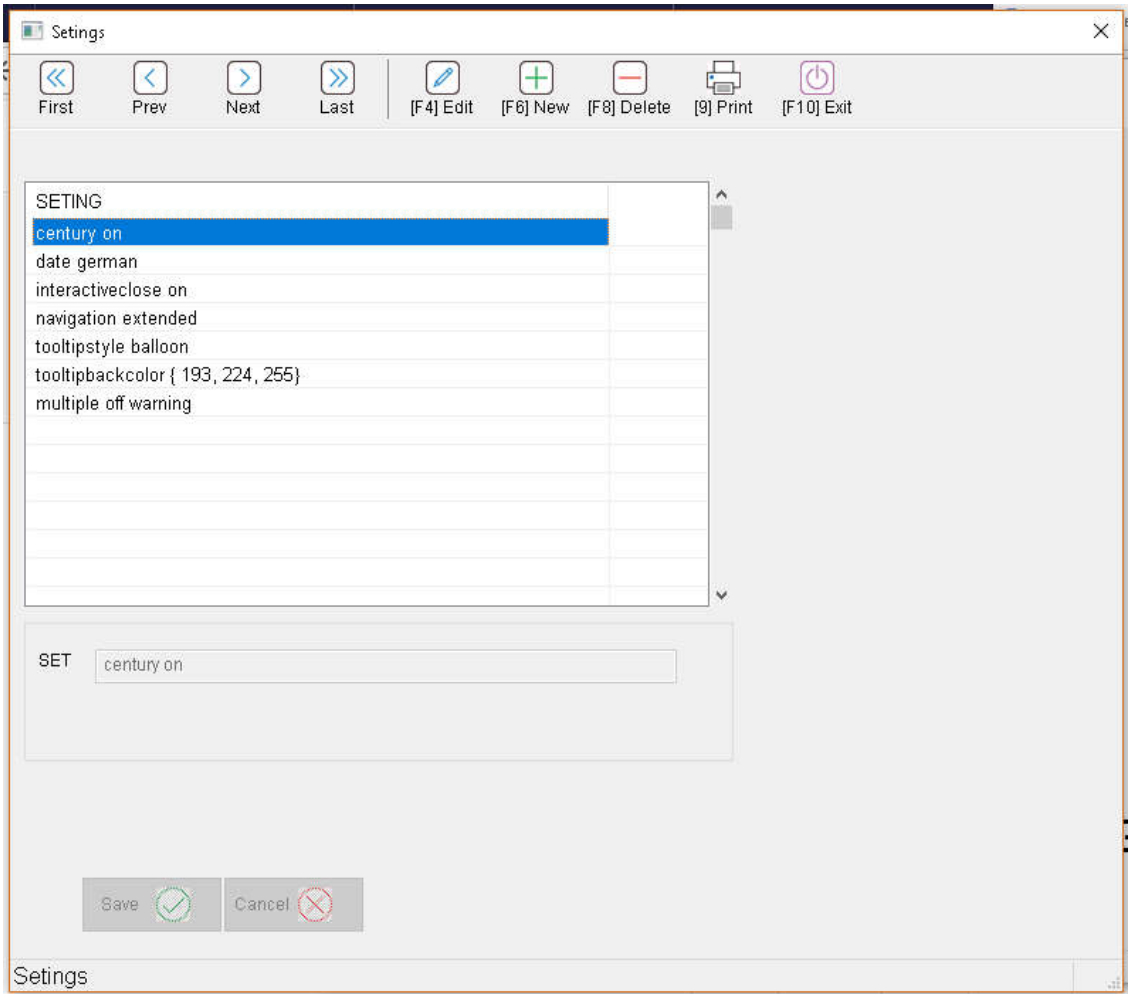
Here you choose what the app is called, the title, the size of the window and how many columns and rows there are



Setting

Each program has its default settings at the beginning of the program

You can define it here

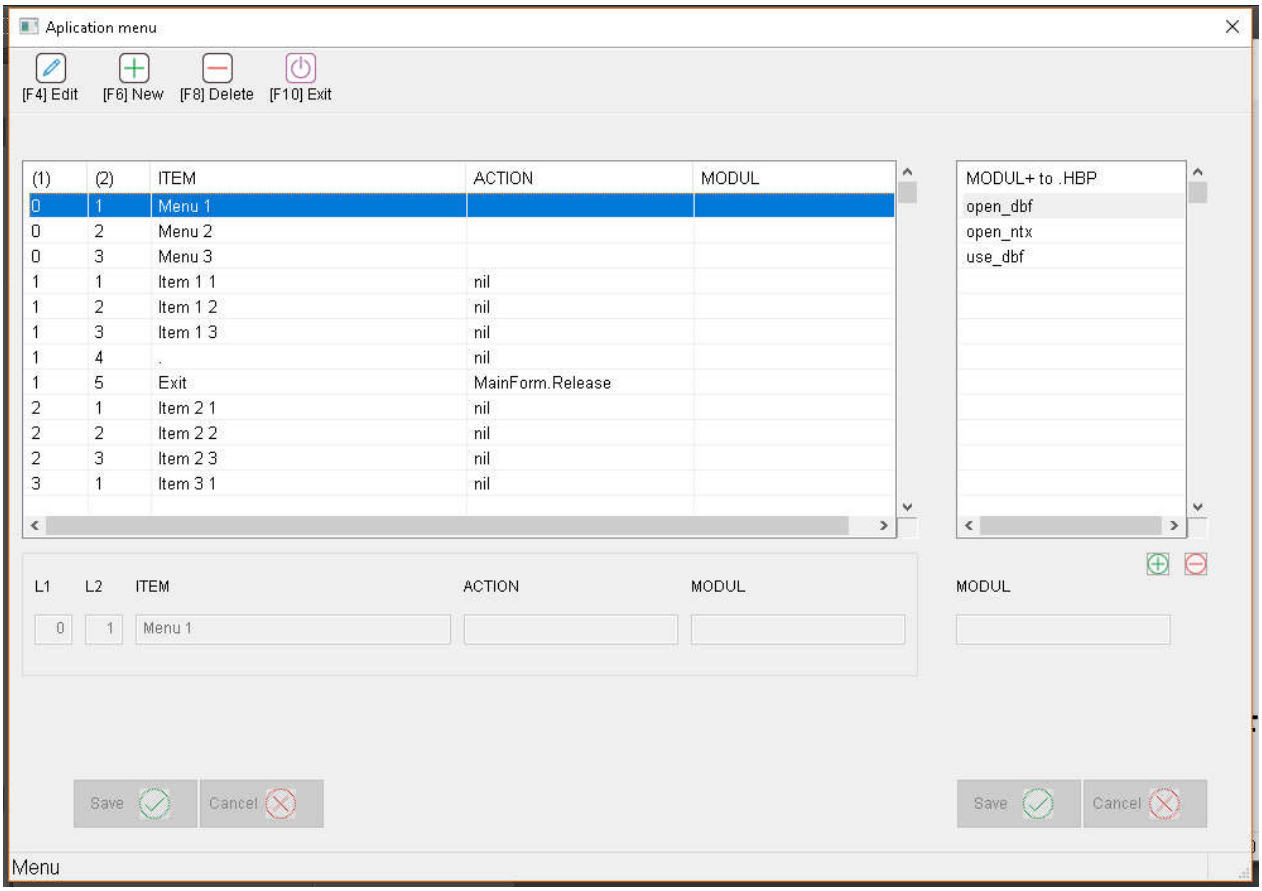


Menu

The next step is to define the names of the columns and rows in the menu

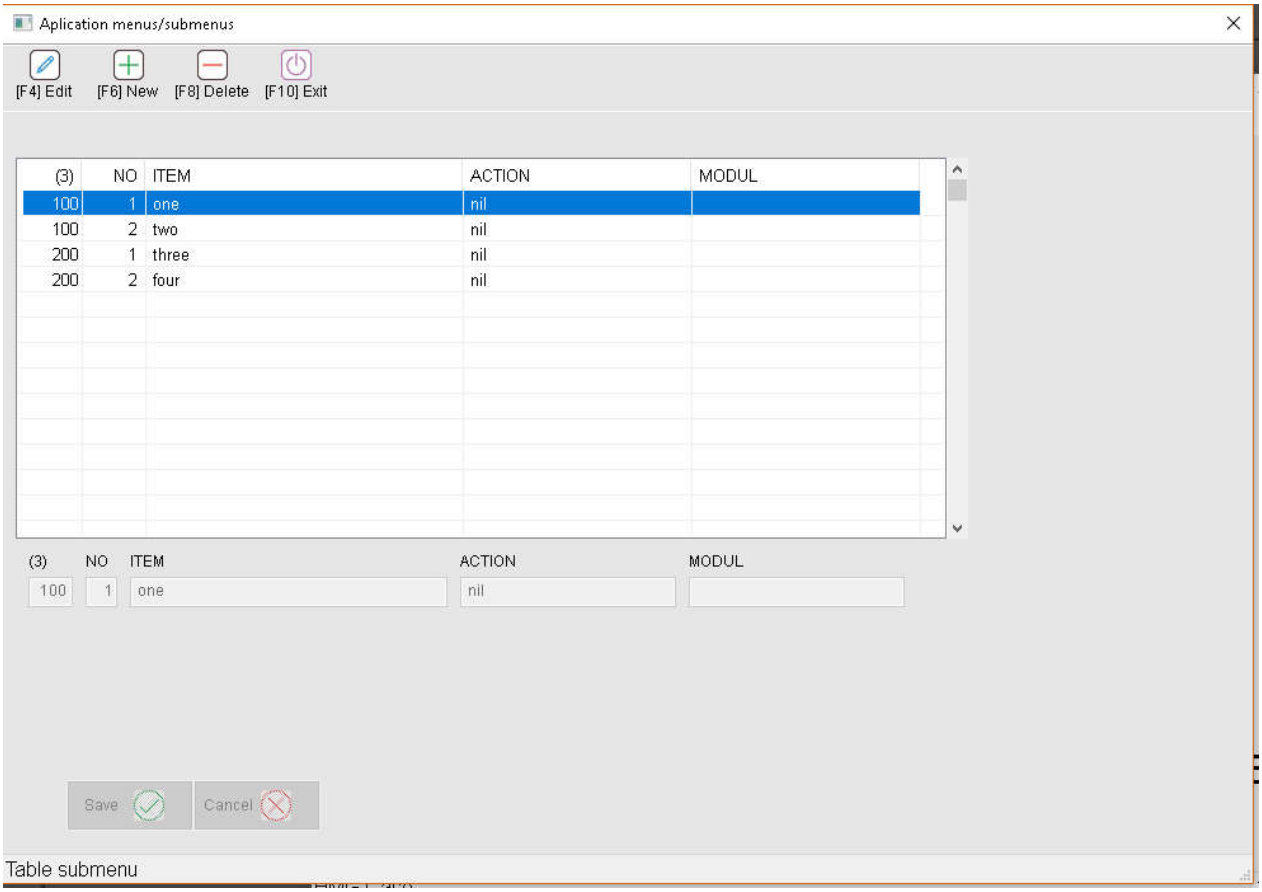
level 0 is basic, columns
then define the column, row
item: name
action: function, procedure
module: program

if you have common features you can add it to the right handbar, the programs you specify will be added to the .hbp file



Submenu

If you need more menu item, this option can define.



Generate

When menu defined next step is Generate, result is main.prg and main.hbp (main je application name which you defined in Project->Aplication

Make Install

If you want create install package with InnoSetup (https://www.jrsoftware.org/isinfo.php) this option help to create .iss file

Prepare generated program for menu

Programs were generated to work on standalone, only compilation needed. When they are part of an application and are called through the menu then some changes need to be made.

Two changes need to be made, the added programs were added with the SET PROCEDURE command and this should be excluded, the following is that only one WINDOW in the program can be MAIN, should be changed to MODAL.

```
#include <hmg.ch>

PROCEDURE MAIN // for test, usually edit_CUST

   PUBLIC NewRec := .F., EditRec := .F.,  FindRec := .F., FiltRec := .F., _qry_exp := ""

   set navigation extended
   set deleted on

   set date german
   set century on

   set procedure to open_dbf  // for test  <<<
   set procedure to open_ntx  // for test  <<<
   set procedure to Use_dbf   // for test  <<<

   open_dbf()
   open_ntx()

   set procedure to sbr_lov   // for test   <<<

   open_2357()

   DEFINE WINDOW Win_1 ;
      AT 0,0 ;
      WIDTH 1000 ;
      HEIGHT 700 ;
      TITLE "Table CUST" ;
      MAIN ; // for test, usually MODAL ;   <<<
      ON RELEASE dbcloseall() ;
      BACKCOLOR { 230, 230, 230 }
```

Utility

Some usefull functions

List on functions

Create list of functions in all programs

List of pictures

Create list of pictures in programs and create .rc file