

HMGCase for DBF

Quick manual

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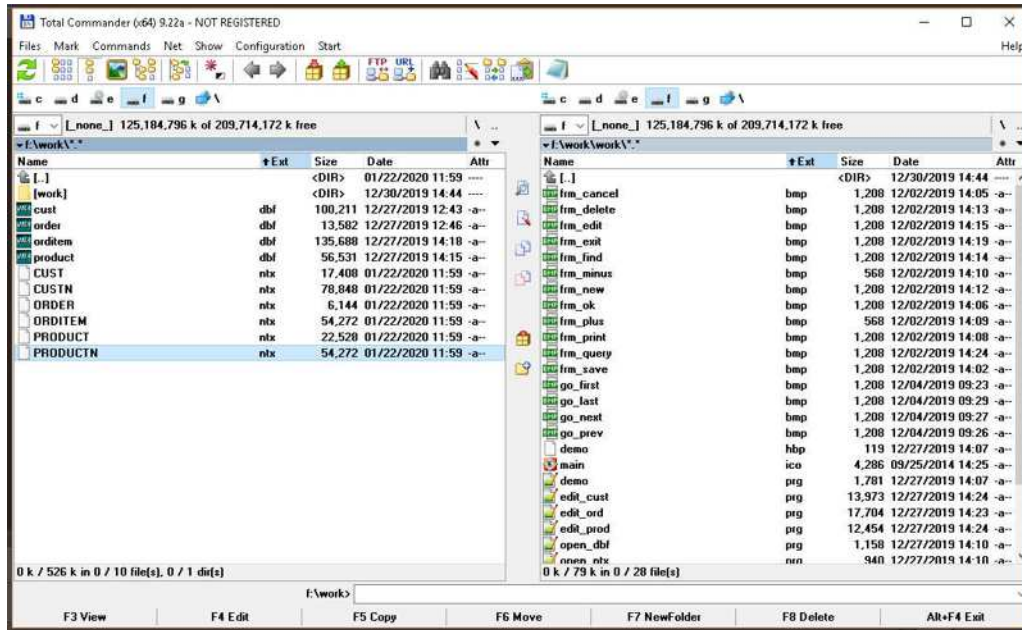
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At start

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



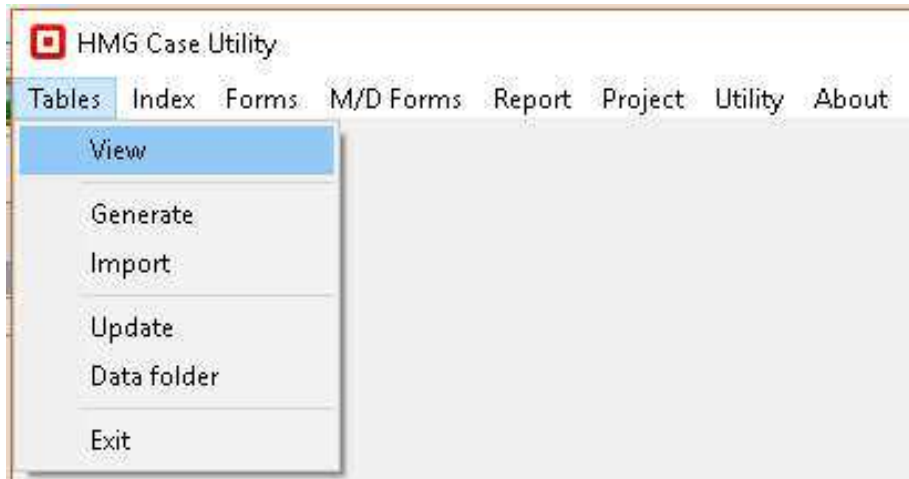
Just start hmgcase.exe



What's happen? Nothing or something?

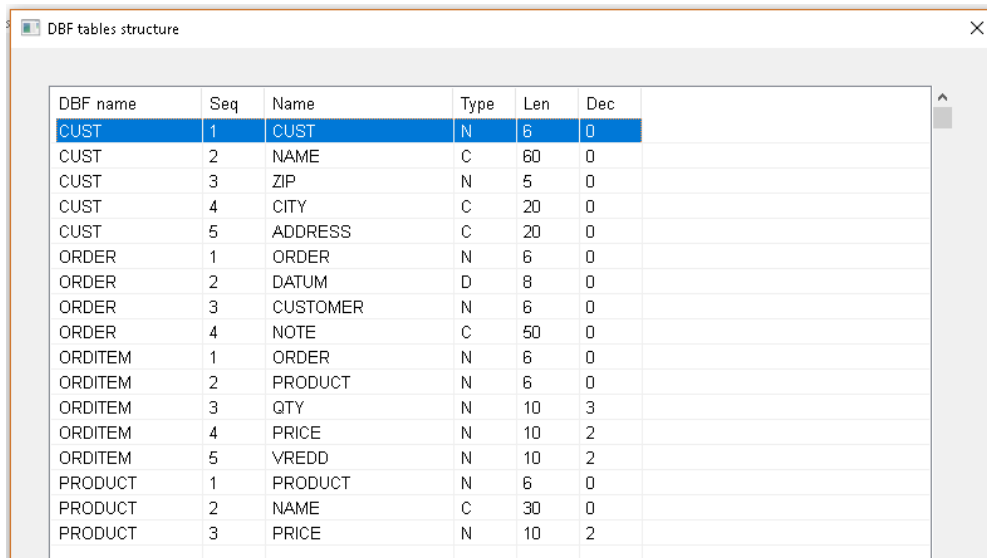
Note: table is DBF file

Tables



View

Click on Tables-View you can see table structure

The screenshot shows a window titled 'DBF tables structure'. It contains a table with the following data:

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 exist.

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

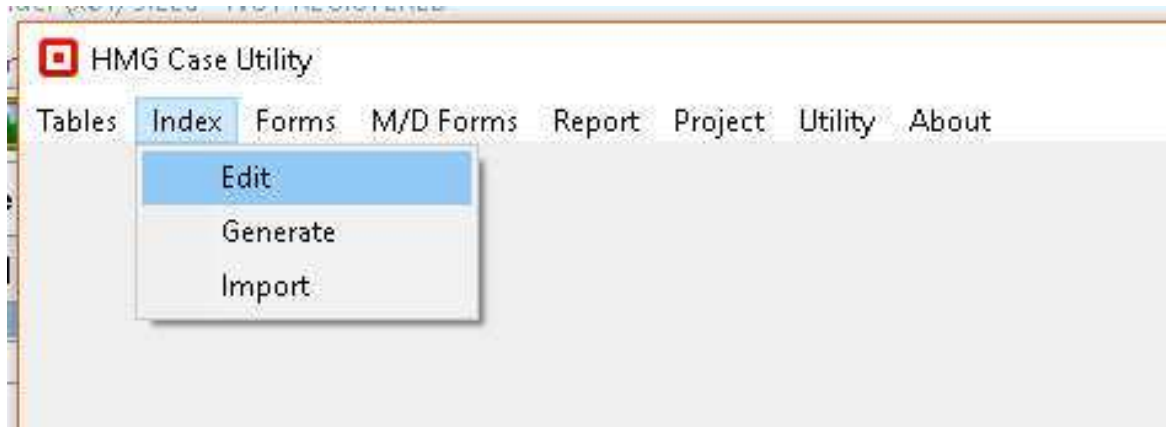
After change structure you can import new structure

Update

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

Index

For index maintenance



Edit

The screenshot shows the 'Indexes' window with a toolbar containing icons for Edit, New, Delete, and Exit, each with a corresponding function key (F4, F6, F8, F10). Below the toolbar is a table listing database indexes.

DBF	Ord	NTX	Unique?	Key
CUST	1	CUST		CUST
CUSTN*	1	CUSTN		NAME
ORDER	1	ORDER		ORDER
ORDITEM	1	ORDITEM		ORDER
PRODUCT	1	PRODUCT		PRODUCT
PRODUCTN	1	PRODUCTN		NAME

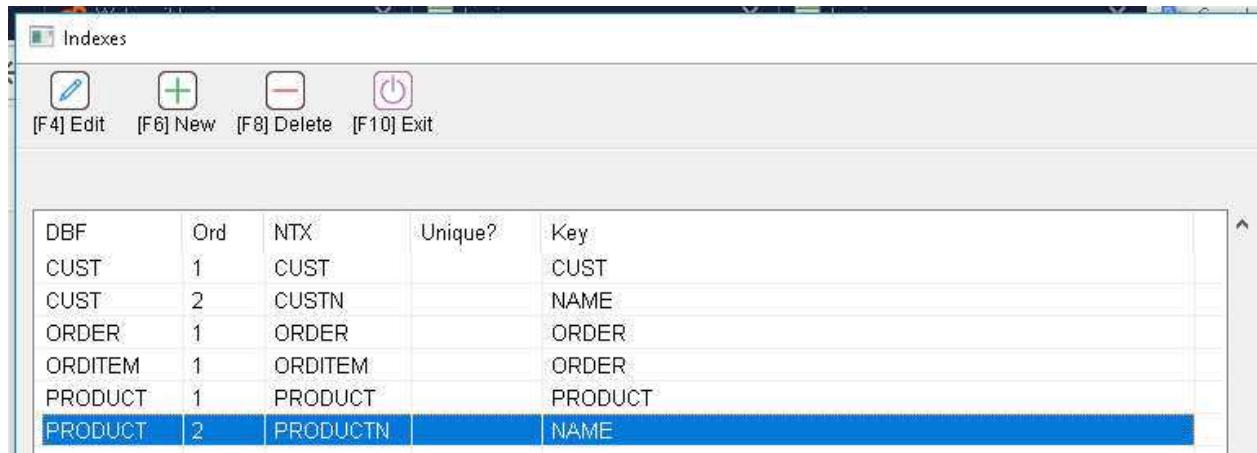
Import

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

If the table has multiple index then you must mark it

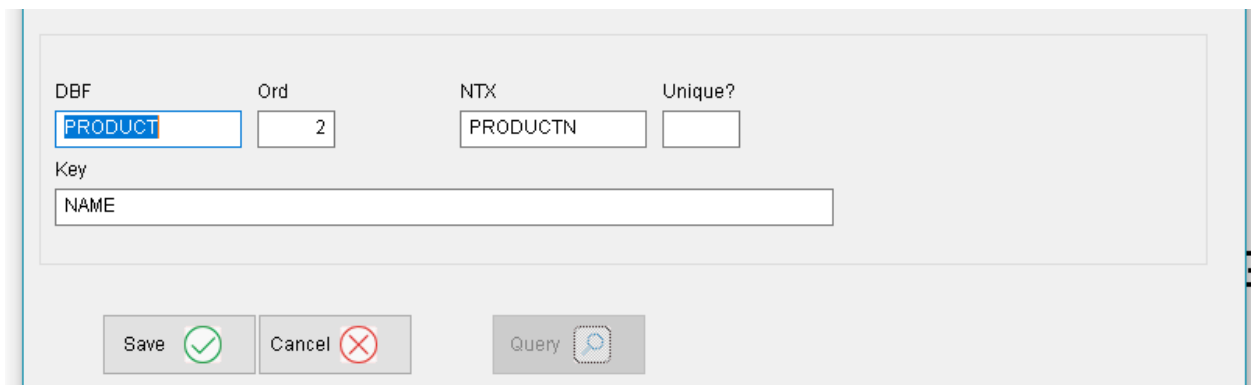
help: if there is no table like index then it is marked with * at the end

like in this case






DBF	Ord	NTX	Unique?	Key
CUST	1	CUST		CUST
CUST	2	CUSTN		NAME
ORDER	1	ORDER		ORDER
ORDITEM	1	ORDITEM		ORDER
PRODUCT	1	PRODUCT		PRODUCT
PRODUCT	2	PRODUCTN		NAME

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



DBF	Ord	NTX	Unique?	Key
PRODUCT	2	PRODUCTN		NAME

Save  Cancel  Query 

Generate

After change indexes you can create **open_ntx.prg**, function for create indexes if not exist, 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()
```

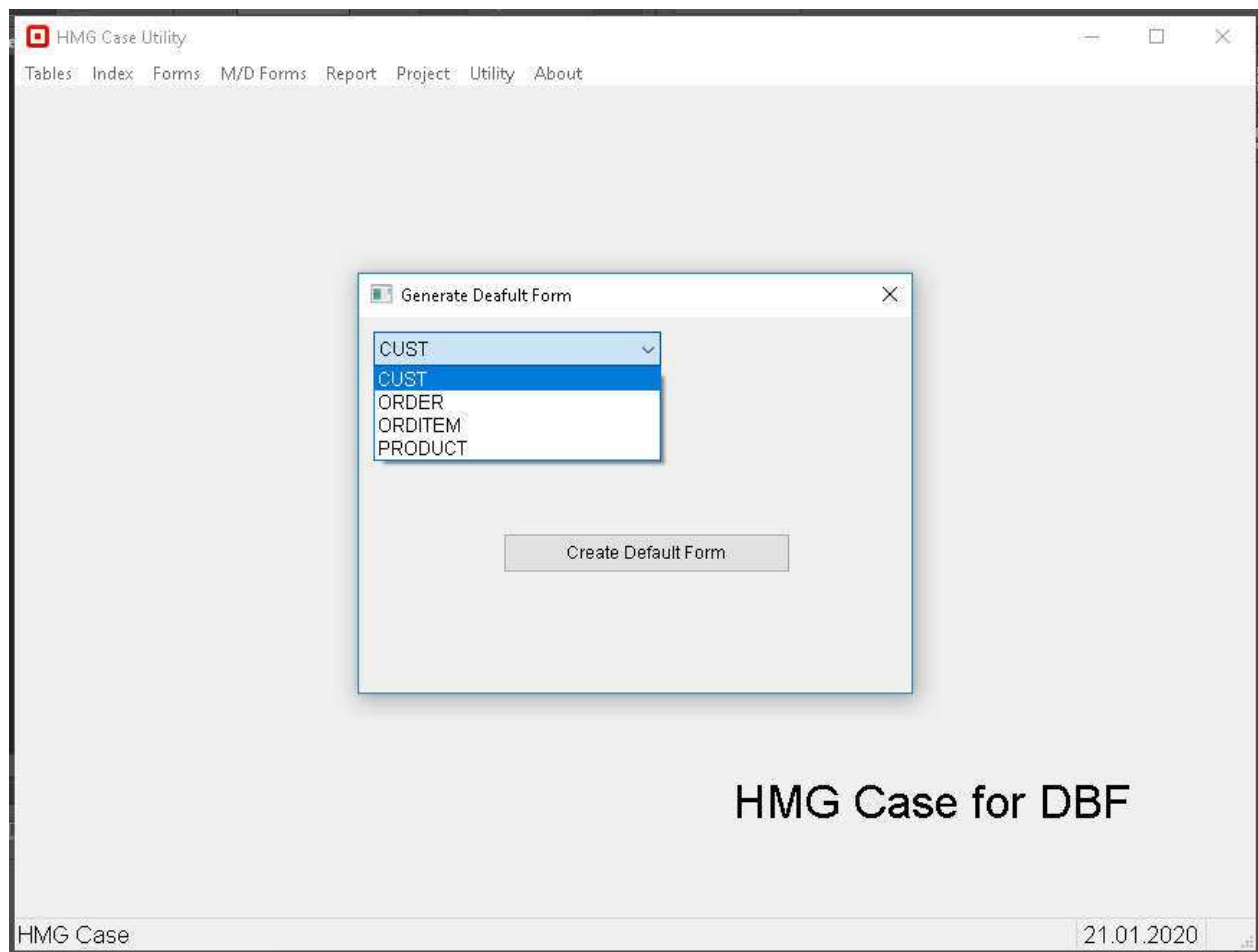
```
RETURN
```


Forms

Create simple form, one table on screen.

Default

Just select table and click button Create Deafault Form



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

Build edit_1.prg

And see

Table CUST

[F2] Find [F4] Edit [F6] New [F8] Delete [F9] Print [F10] Exit

CUST	NAME
3	KBC BANKA
4	ABRAHAM SUR, KRISTINA ABRAHAM
5	AD STUDIO
6	A-DESIGN P DOO
7	DOO PALIC SUBOTICA U STECAJU
8	AGENCIJA GLADIJATOR
9	AGROVOJVODINA-KOMERCSERVIS
10	AGROZAVOD AD
11	ALPINA YUG DOO
12	AL PACK DOO
14	ALBEY TURIZM TAS. GINA SAN
15	ALCA-TRGOVINA DOO
17	ALF COSMETICS DOO
18	ALFANET SISTEM DOO
19	ALSTAR DOO
20	AMSP DOO
21	APOTEKA SUBOTICA
22	AQUA RIMONA DOO
23	AQUA-MONT
24	ARCUS DOO

CUST: 3

NAME: KBC BANKA

ZIP: 11000

CITY: NOVI BEOGRAD

ADDRESS: OMLADIN. BRIGADA 90V

Save Cancel

Table CUST

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.

Table CUST

[F2] Find [F4] Edit [F6] New [F8] Delete [F9] Print [F10] Exit

CUST	NAME
3	KBC BANKA
4	ABRAHAM SUR, KRISTINA.ABRAHAM
5	AD STUDIO
6	A-DESIGN P DOO
7	DOO PALIC SUBOTICA.U STECAJU
8	AGENCIJA GLADIJATOR
9	AGROVOJVODINA-KOMERCSERVIS
10	AGROZAVOD AD
11	ALPINA YUG DOO
12	AL PACK DOO
14	ALBEY TURIZM TAS.GINA.SAN
15	ALCA-TRGOVINA DOO
17	ALF COSMETICS DOO
18	ALFANET SISTEM DOO
19	ALSTAR DOO
20	AMSP DOO
21	APOTEKA SUBOTICA
22	AQUA RIMONA DOO
23	AQUA-MONT
24	ARCUS DOO

CUST: 3

NAME: KBC BANKA

ZIP: 11000

CITY: NOVI BEOGRAD

ADDRESS: OMLADIN BRIGADA 90V

Save Cancel

Table CUST

Icons are in BMP, you have use yours.

Edit

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

The 'Form edit' window displays the configuration for a form named 'CUST'. On the left, a table lists the fields defined in the database table 'CUST'. On the right, the 'Form' section shows the configuration for the selected field 'CUST'.

Form	DBF	No	Field Name
CUST	CUST	1	CUST
CUST	CUST	2	NAME
CUST	CUST	3	ZIP
CUST	CUST	4	CITY
CUST	CUST	5	ADDRESS

Form: CUST
DBF: CUST
No: 1
Field Name: CUST
Label: CUST
Field Type: N
Field Len: 6, Dec:
Field Row: 100, Col: 520
Label (relative on field position):
Row: , Col: -100, Set all
Picture: 999999
Default: 0
Browse: ☒, Input: ☒, Query: ☒, Sum: ☐
Display: ☐, Edit: ☒, Print: ☒, Validate: ☐
DBF: ☐, Key: ☐, Valid: ☐, Display: ☐

Buttons: Save, Cancel, Query, Preview form

Form definition

The 'Preview Form' window shows the visual layout of the form. On the left, a large blue rectangle represents the form area. On the right, the field definitions are displayed as a list of labels and their corresponding input fields.

Form	DBF	No	Field Name
CUST	CUST	1	CUST
CUST	CUST	2	NAME
CUST	CUST	3	ZIP
CUST	CUST	4	CITY
CUST	CUST	5	ADDRESS

Buttons: Save, Cancel, Query, Preview form

Button Preview Form display field position on screen.

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

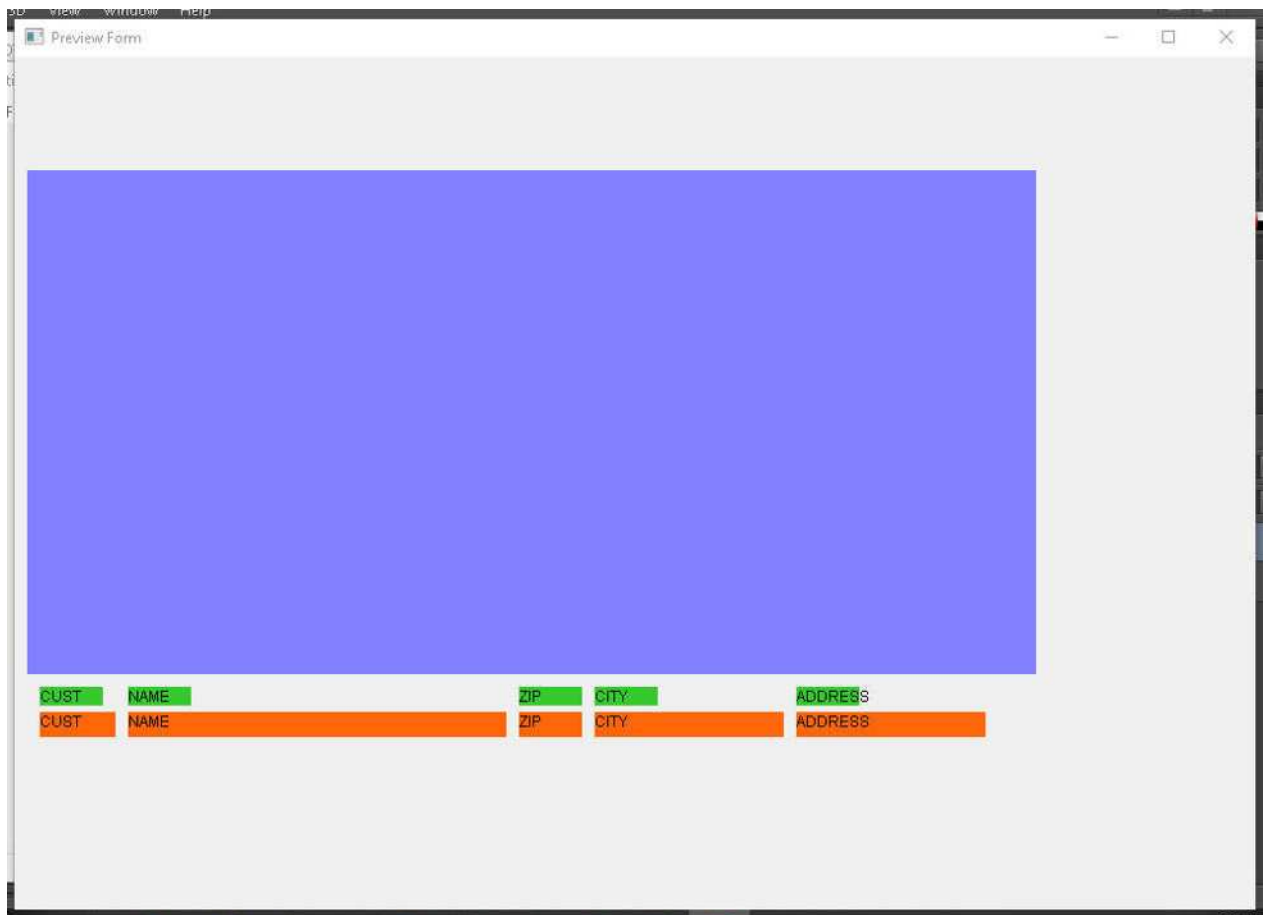
Now you can change grid, top button Set.

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

The screenshot shows a window titled "Table CUST" with a toolbar at the top containing icons for Find, Edit, New, Delete, Print, and Exit, each with a corresponding function key label: [F2] Find, [F4] Edit, [F6] New, [F8] Delete, [F9] Print, and [F10] Exit.

Below the toolbar is a table with the following data:

CUST	NAME	ZIP	CITY	ADDRESS
3	KBC BANKA	11000	NOVI BEOGRAD	OMLADIN BRIGADA 90V
4	ABRAHAM SUR, KRISTINA ABRAHAM	24413	PALIC	HORGOSKI PUT 132
5	AD STUDIO	24000	SUBOTICA	MATKA VUKOVICA 11
6	A-DESIGN P DOO	24000	SUBOTICA	KORZO 6
7	DOO PALIC SUBOTICA U STECAJU	24000	SUBOTICA	DJURE DJAKOVICA 1A
8	AGENCIJA GLADIJATOR	24000	SUBOTICA	KUMICEVA 35
9	AGROVOJVODINA-KOMERCSERVIS	24000	SUBOTICA	ALBE MALAGURSKO...
10	AGROZAVOD AD	24000	SUBOTICA	TRG CARA J. NENADA...
11	ALPINA YUG DOO	11070	NOVI BEOGRAD	BUL UMETNOSTI 4
12	AL PACK DOO	24000	SUBOTICA	TOLMINSKA 14
14	ALBEY TURIZM TAS. GINA SAN	99999	YENIYALI MH.	ALI OFLUOGLU TURKI
15	ALCA-TRGOVINA DOO	11272	DOBANOVCI	BEOGRADSKA 7
17	ALF COSMETICS DOO	11080	ZEMUN	RATARSKI PUT 39F
18	ALFANET SISTEM DOO	11000	beograd	SARAJEVSKA 42
19	ALSTAR DOO	24300	BACKA TOPOLA	SALAS 264
20	AMSP DOO	24000	SUBOTICA	BOZE SARCEVICA 44
21	APOTEKA SUBOTICA	24000	SUBOTICA	MATJE GUPCA 26
22	AQUA RIMONA DOO	24000	SUBOTICA	IVE VOJNOVICA 3

Below the table is a form with the same headers: CUST, NAME, ZIP, CITY, ADDRESS. The values are: 3, KBC BANKA, 11000, NOVI BEOGRAD, OMLADIN BRIGADA 90V. At the bottom of the form are "Save" and "Cancel" buttons.

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 click 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

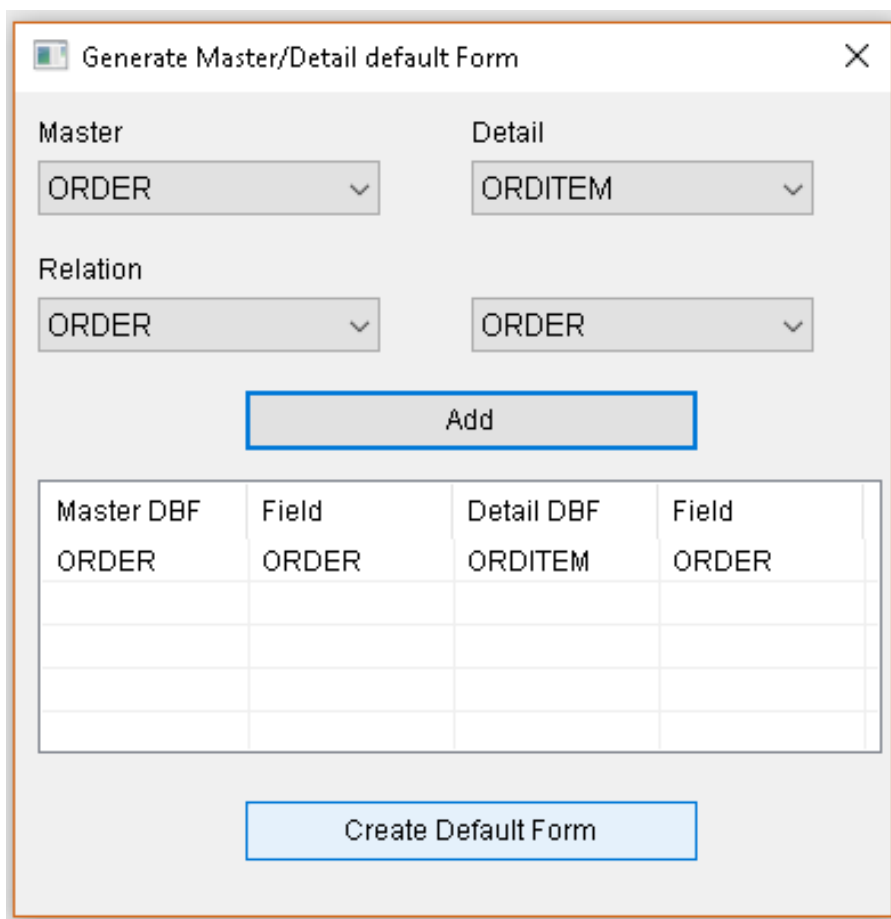
F10 - Exit

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 click on Create Default Form.



Master DBF	Field	Detail DBF	Field
ORDER	ORDER	ORDITEM	ORDER

After Generate and compile you can see like

M/D form edit

[F4] Edit [F6] New [F8] Delete [F10] Exit

ORDER

Form	Bl...	DBF	No	Field Name
ORDER	1	ORDER	1	ORDER
ORDER	1	ORDER	2	DATUM
ORDER	1	ORDER	3	CUSTOMER
ORDER	1	\$	4	CUSTNAME
ORDER	1	ORDER	5	NOTE
ORDER	2	ORDITEM	6	ORDER
ORDER	2	ORDITEM	7	PRODUCT
ORDER	2	\$	8	PRODNAME
ORDER	2	ORDITEM	9	QTY
ORDER	2	ORDITEM	10	PRICE
ORDER	2	ORDITEM	11	VREDD

Form: ORDER

Block: 1

DBF: ORDER

No: 3

Field Name: CUSTOMER

Label: CUSTOMER

Field Type: N

Field Len: 6

Field Dec:

Row: 110

Col: 20

Picture: 999999

Default: 0

☒ Browse
☒ Input
☐ Sum
☐ Display

☒ Display
☒ Edit
☒ Query
☒ Validate

DBF: CUST
 Key: CUST
 Valid: NAME
 Display: CUSTNAME

Save Cancel Query Preview form

Select row with Enter or [F4] Edit than
 Ctrl+Up/Ctrl+Down change field position up/down
 Ctrl+Left/Ctrl+Right cahnge filed position left/right

MD form definition

Also you can select Sum for field VREDD.

Generate and compile. Program now look like

[illegible]

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

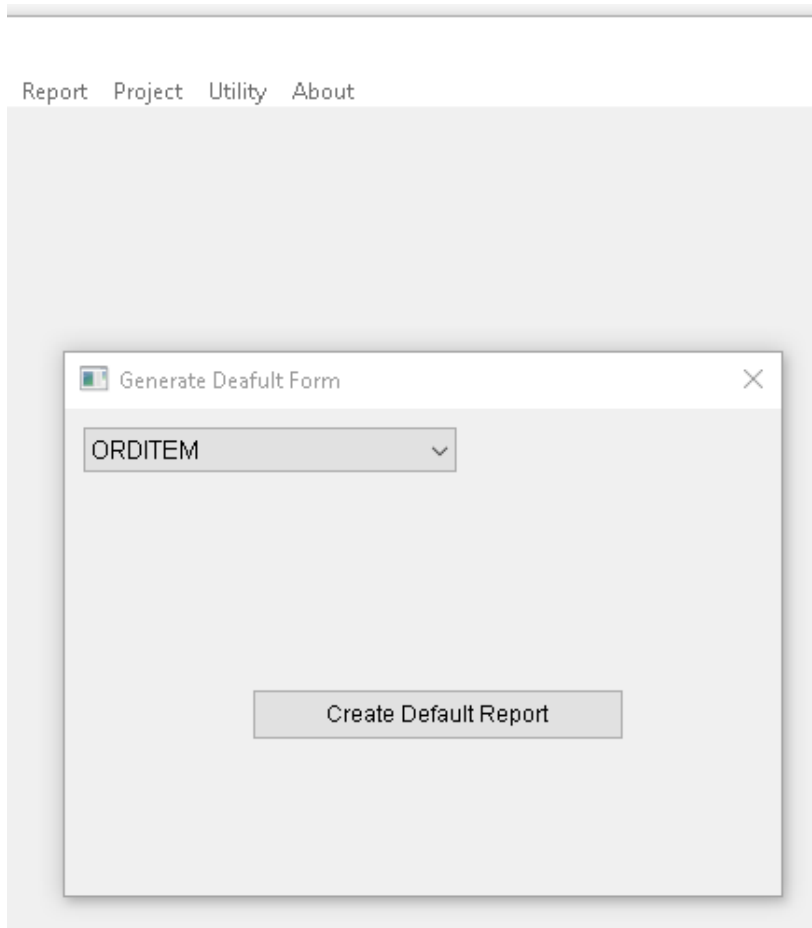
Just select form and Generate. Next step is compile.

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

The 'Report's' dialog box contains a table of report definitions and a form for editing a specific report.

Report	DBF	Seq	Name
ORDITEM	ORDITEM	1	ORDER
ORDITEM	ORDITEM	2	PRODUCT
ORDITEM	ORDITEM	3	QTY
ORDITEM	ORDITEM	4	PRICE
ORDITEM	ORDITEM	5	VREDD

Report definition form fields:

- Report: ORDITEM
- DBF: ORDITEM
- Seq: 1
- Name: ORDER
- Type: N
- Len: 6
- Dec: 0
- Picture: 999999
- Header: ORDER
- Width: 6
- ☒ Print ☐ Break
- ☐ Sum on Break ☐ Sum on Report
- ☐ Parameter ☐ Not use

Buttons: Save, Cancel, Query

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.prg then insert in report

Insert field and press F9 Build than create param.prg

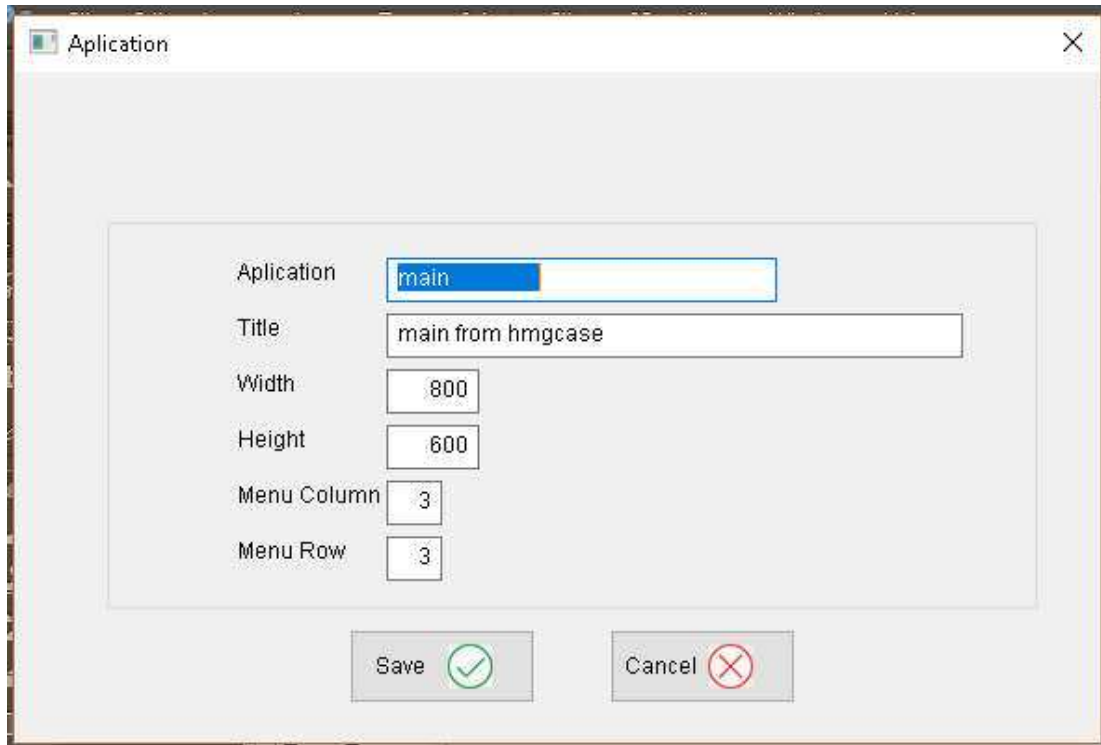
[illegible]

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



The image shows a screenshot of a Windows-style dialog box titled "Aplication". The dialog box has a standard Windows title bar with a close button (X) in the top right corner. Inside the dialog, there is a light gray rectangular area containing several input fields. The fields are labeled as follows:

- Aplication**: A text input field containing the word "main".
- Title**: A text input field containing the text "main from hmgcase".
- Width**: A numeric input field containing the value "800".
- Height**: A numeric input field containing the value "600".
- Menu Column**: A numeric input field containing the value "3".
- Menu Row**: A numeric input field containing the value "3".

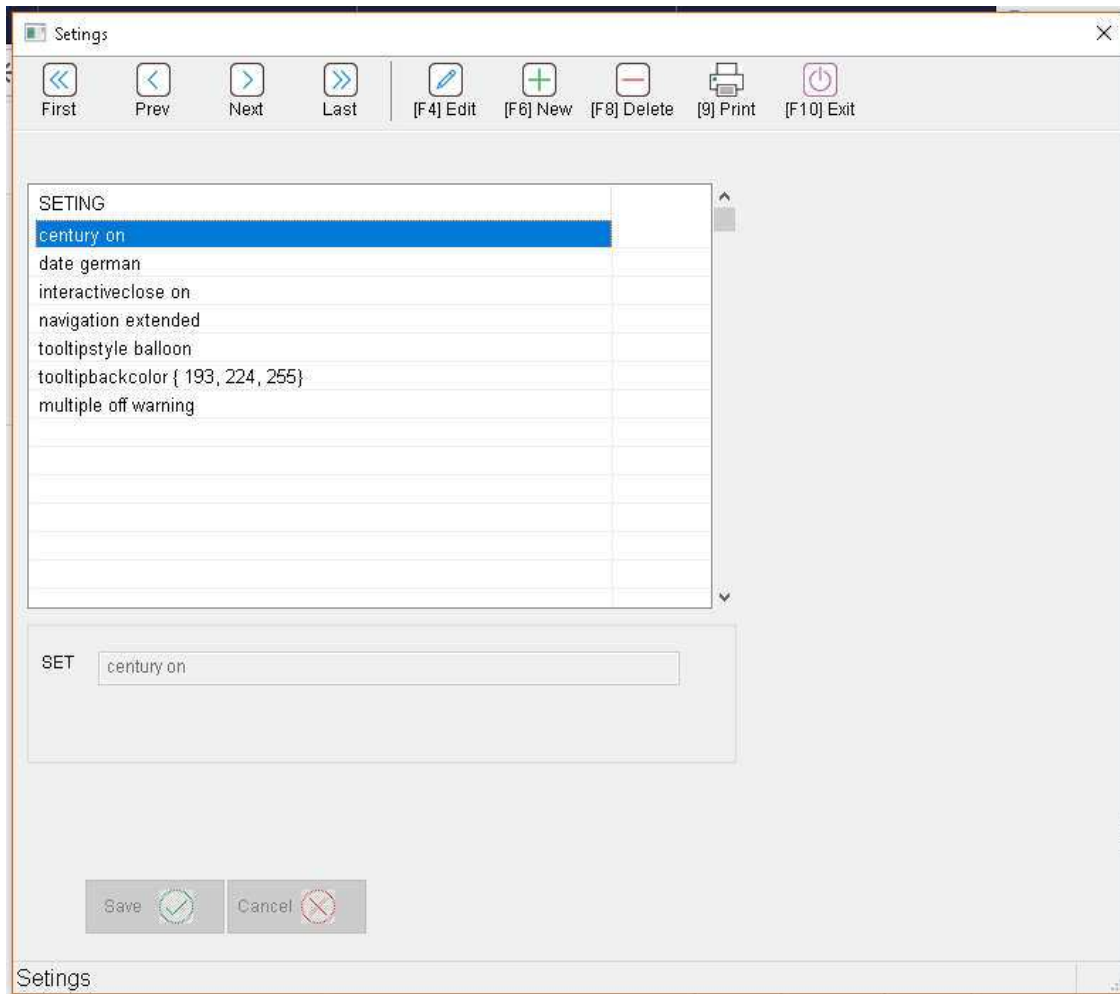
At the bottom of the dialog, there are two buttons:

- Save**: A button with a green checkmark icon.
- Cancel**: A button with a red X icon.

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

(1)	(2)	ITEM	ACTION	MODUL
0	1	Menu 1		
0	2	Menu 2		
0	3	Menu 3		
1	1	Item 1 1	nil	
1	2	Item 1 2	nil	
1	3	Item 1 3	nil	
1	4	.	nil	
1	5	Exit	MainForm.Release	
2	1	Item 2 1	nil	
2	2	Item 2 2	nil	
2	3	Item 2 3	nil	
3	1	Item 3 1	nil	

L1 L2 ITEM ACTION MODUL

0 1 Menu 1

MODUL+to .HBP

open_dbf

open_ntx

use_dbf

MODUL

Save Cancel

Menu

Submenu

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

[illegible]

Generate

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

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_low // 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 dbclosesall() ;
        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