

PB DeCompiler

Easy to recovery your Powerbuilder Project Lost or obsolete code

<http://www.mis2erp.com>

- Welcome to see the presentation ppt, this document will take you to a simple instruction. Remember, this software is efficient and simple.
- The software from the 2008 R & D, More TEN YEARS of updates and improvements.
- This document is updated in 2020.01.15.

Versions

- For 5.0
- For 6.0
- For 6.5
- For 7.0
- For 8.0
- For 9.0
- For 10.0
- For 10.5
- For 11.0
- For 11.5
- For 12.0
- For 12.5
- For 12.6
- For 2017
- For 2018
- For 2019

Simplest Steps

Chinese ref to: <<2008-2020 Steps Chinese>>
video ref to: <<Screen Video>>

- --IN PB DeCompiler
- 1) use recoverydw\xxx tool to export datawindow(Note the version of PBD. Install PowerBuilder in advance)
- 2) load project from exe executable file(If more than one exe, load multiple times)
- 3) do decompiling....Wait a few minutes
- 4) menu: create pbt and pbw
- 5) checked menu:whether Export PBL with SRD(select on), and menu: export PBL all files
- 6) export sr all files(below step 4 use)(Pictures will also be exported here)
- --IN POWER BUILDER
- 1) optimzie each pbls(Right click on the PBL file name, and optimize)
- 2) full compile first PBL,if syntax, on blueColor-log-text right-click-mouse->source edit to modify or Comment code, temporarily
- 3) full compile agin until no any errors
- 4) import sr to each PBL(Step 6 above exported)
- OK. can double-click on OBJECT to edit.....

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中文处理步骤点这里

- [Export DW-syntax](#)
- [Open PB DeCompiler to Logon](#)
- [Open File](#)
- [Generate pbw and pbt](#)
- [Export PBLs](#)
- [Export Sr\(source\)](#)
- [Open new Project in PB](#)
- [Optimize each one PBL](#)
- [Compile One of PBLs\(Build Runtime Library\)](#)
- [See Source and interface of Object](#)
- [See Sources&Images in sr folder](#)
- [Code and Event Corresponding error](#)

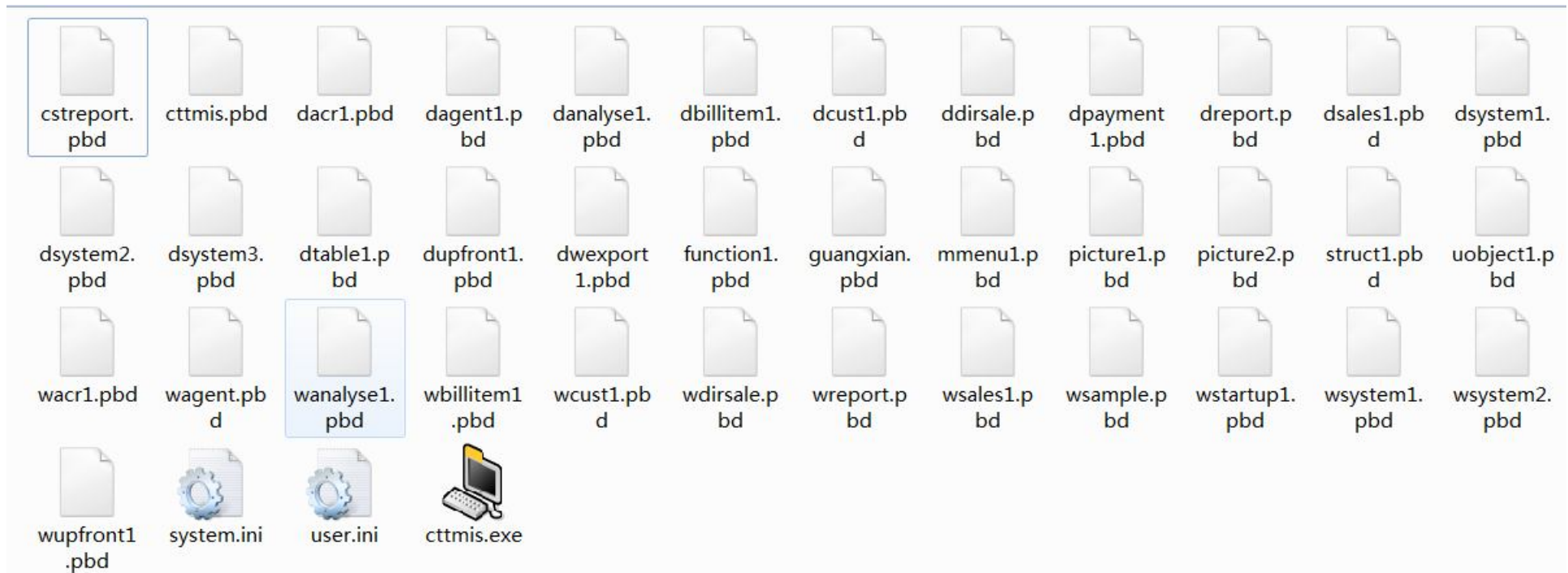
Chinese Steps

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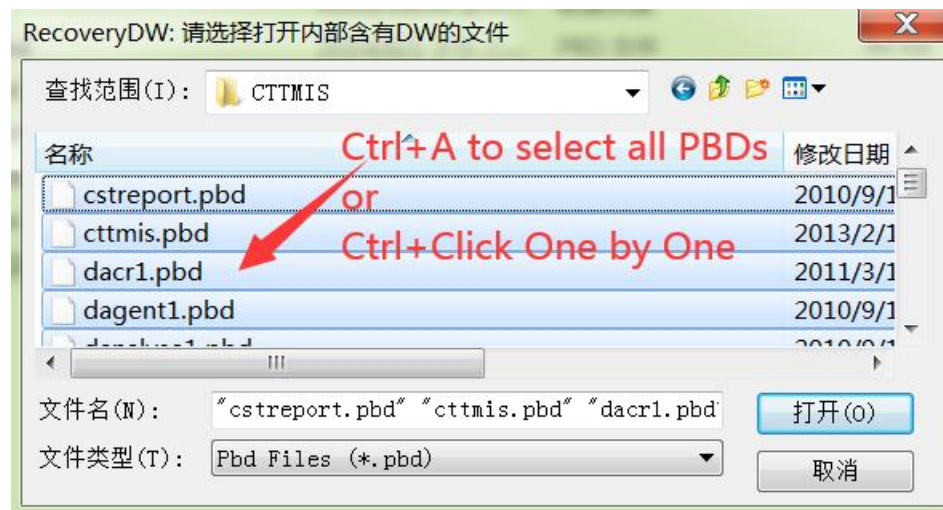
中文处理步骤说明

1. 把需要反编译的程序的安装目录(PBD所在的目录)中的pbvm**.dll和pbdwe**.dll删除(避免和本机安装的PB版本不一致而冲突)。当然你应该尽量安装比需要反的程序的Build相同或者稍高并且稳定的PB版本。
2. 打开recoverydw中的相应版本目录(比如90)。执行recoverydw_v**.exe, 一次选择全部pbd或者逐个打开pbd文件。并"导出全部dw"。如果存在错误, 请查看recoverydw目录中的文档: "ERROR about.doc"。
3. 打开反编译, 通过认证, 文件->从exe中加载列表。
4. 文件->创建pbw和pbt文件。
5. 将 文件->是否将srd(datawindow)写入PBL 打钩。
6. 文件->全部文件导出为PBL。如果重复执行导出PBL, 请手工删除PBL文件(特别小心)。反编译不会覆盖你的PBL文件。
7. 打开pb。
8. pb中, file->open workspace, 选择导出目录中的***.pbw, 低于PB8的版本请查看"How to use.doc"文档的相应说明。
9. 在每个PBL上面点右键->optimize, 没有对象(PBL名称前无+号)的不用做这一步。有弹出提示窗口的需多执行几次直到无提示。
10. 在第一个pbl上面, 点右键->build runtime library, Build Type选择: Full。
11. 如果编译日志存在错误提示(正常日志为黑色字体, 错误日志为蓝色字体), 在错误日志上, 单击某行提示, 鼠标点右键->source edit, 找到对应的事件名, 和错误所在的行数, 进行手工修正。如何修改错误请看video&learn目录下的"How to use.doc"文档。
*修正一个对象的错误后, 保存并关闭Source, 编译日志会消失, 需要重复10, 11两个步骤, 直到无语法错误。
12. 修正语法错误后, 就可以双击打开对象并看到诸如窗口等对象的界面和代码了。
不过极有可能事件名和代码对应错乱, 请如此操作:
12. 1关闭打开的对象。
12. 2在对象名上点右键, 比如w_main上点右键->Source edit, 找到一个空白行, 光标停在空白行上, 敲一个空格, 然后保存。
保存后, 代码和事件名对应即正常。
*保险的做法是全部的对象(有代码的对象)都执行12.2这一步。在对象打开时任何的修改都将使这种错误被保存下来无法修正。

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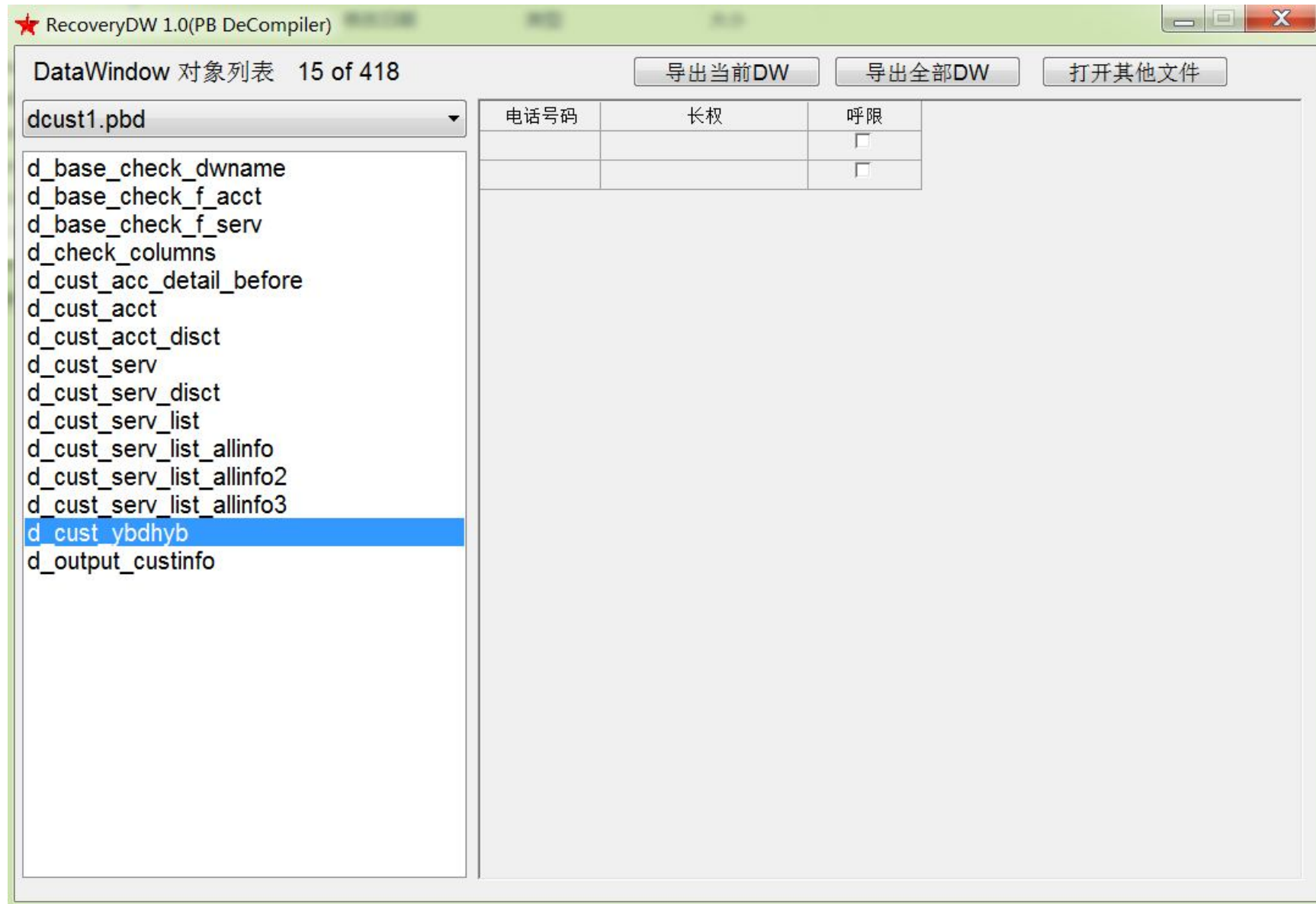


Step2: Open PB DeCompiler Subdirectory: RecoveryDW, Double-Click Recoverydw_v**.exe, and Load all of your pbd's. If Lower than PB9, you may Choose single file multiple times. It will Export dw-syntax to a default Path Same with PBD's path.



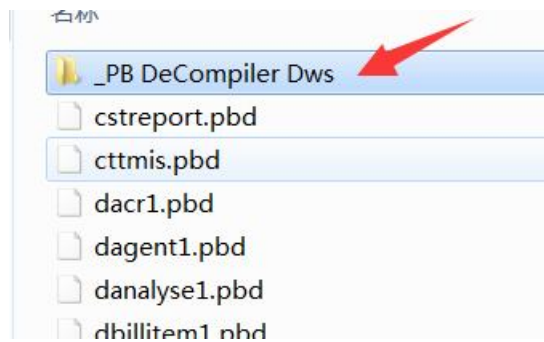
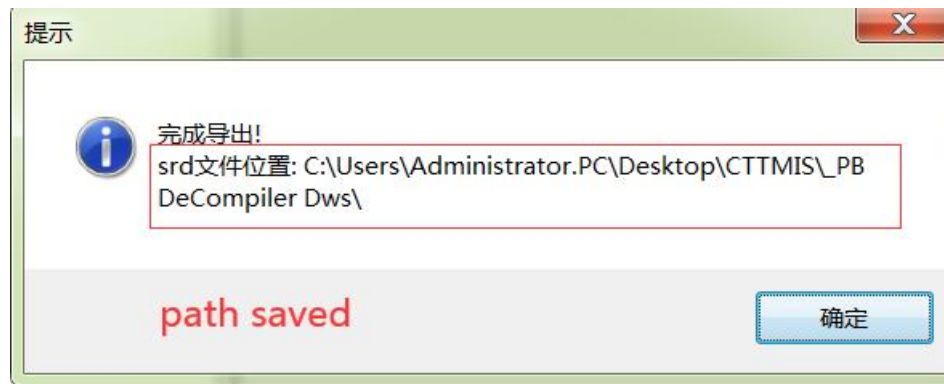
Step2: pic

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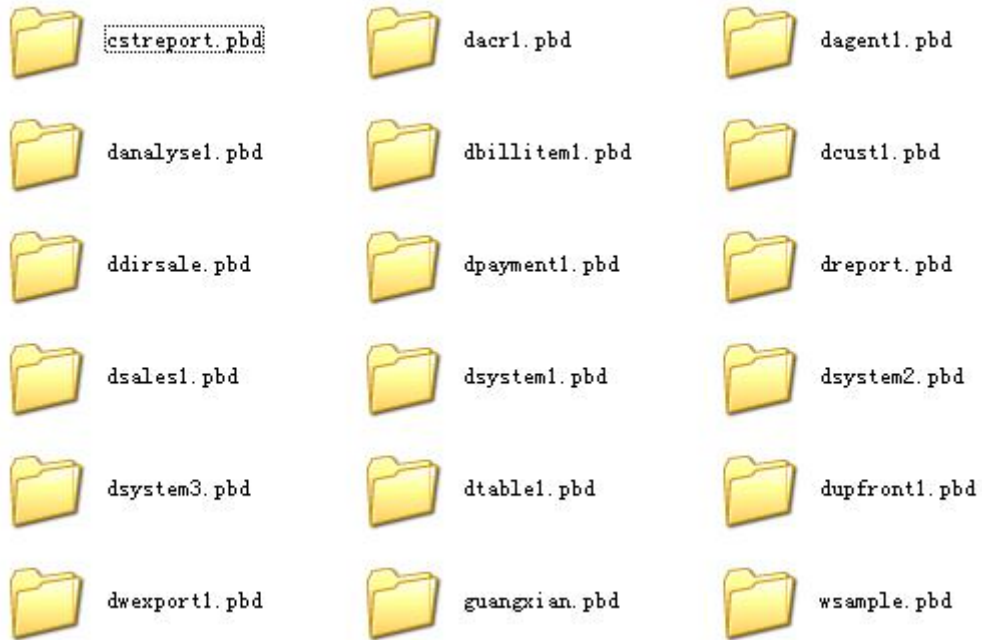
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Step2: pic


















Step2: pic

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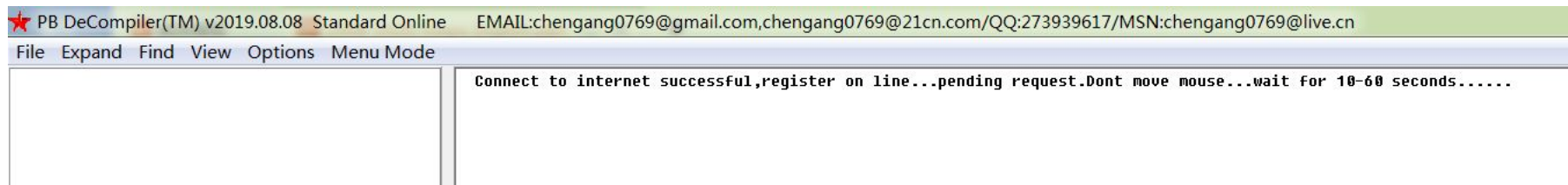
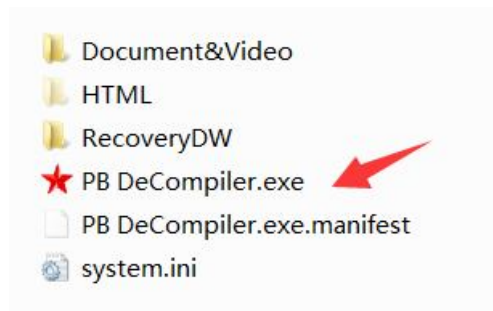
Step2: pic

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-  d_base_check_dwname.srd
-  d_base_check_f_acct.srd
-  d_base_check_f_serv.srd
-  d_check_columns.srd
-  d_cust_acc_detail_before.srd
-  d_cust_acct.srd
-  d_cust_acct_disct.srd
-  d_cust_serv.srd
-  d_cust_serv_disct.srd
-  d_cust_serv_list.srd
-  d_cust_serv_list_allinfo.srd
-  d_cust_serv_list_allinfo2.srd
-  d_cust_serv_list_allinfo3.srd
-  d_cust_ybdhyb.srd
-  d_output_custinfo.srd

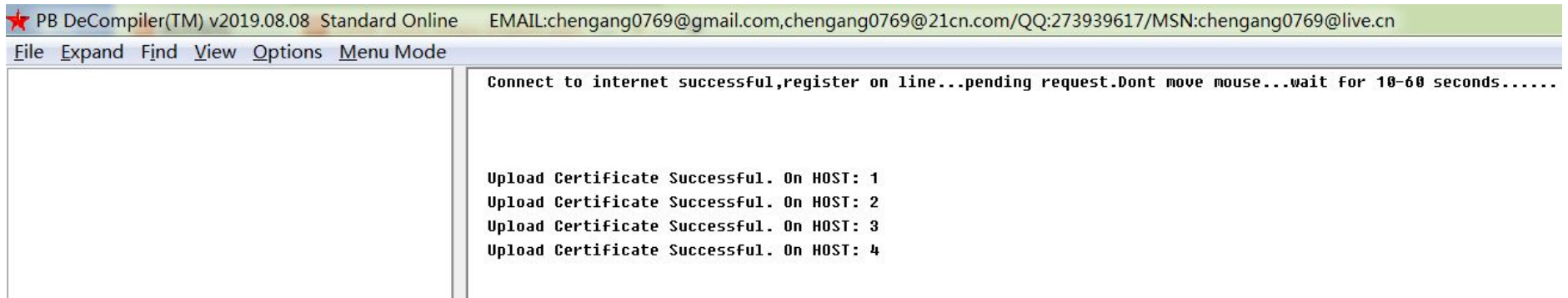
Step3: Open your Standard Online PB DeCompiler(or called PB DeCoder)
It will log on the server authentication, and access to important operating parameters

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Step3.2 Three servers, the authentication processing, Necessary redundancy

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The screenshot shows the PB DeCompiler v2019.08.08 Standard Online interface. The title bar includes the application name, version, and contact information. The menu bar contains File, Expand, Find, View, Options, and Menu Mode. The main window is split into two panes. The left pane is empty. The right pane displays a console window with the following text:

```
Connect to internet successful,register on line...pending request.Dont move mouse...wait for 10-60 seconds.....

Upload Certificate Successful. On HOST: 1
Upload Certificate Successful. On HOST: 2
Upload Certificate Successful. On HOST: 3
Upload Certificate Successful. On HOST: 4
```

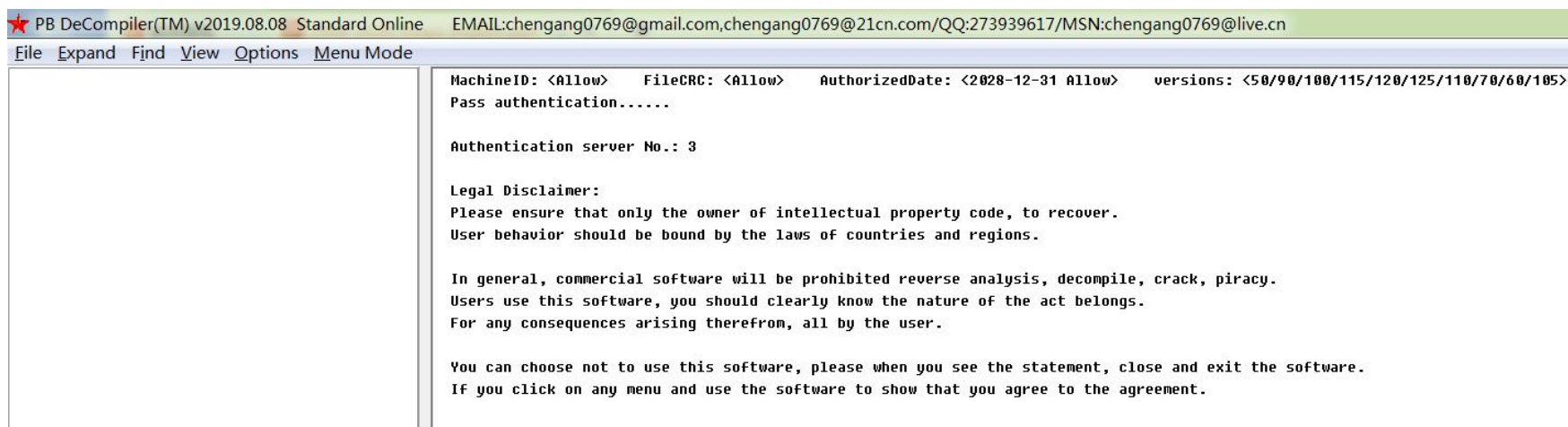
Step3.3 Check the response from the server

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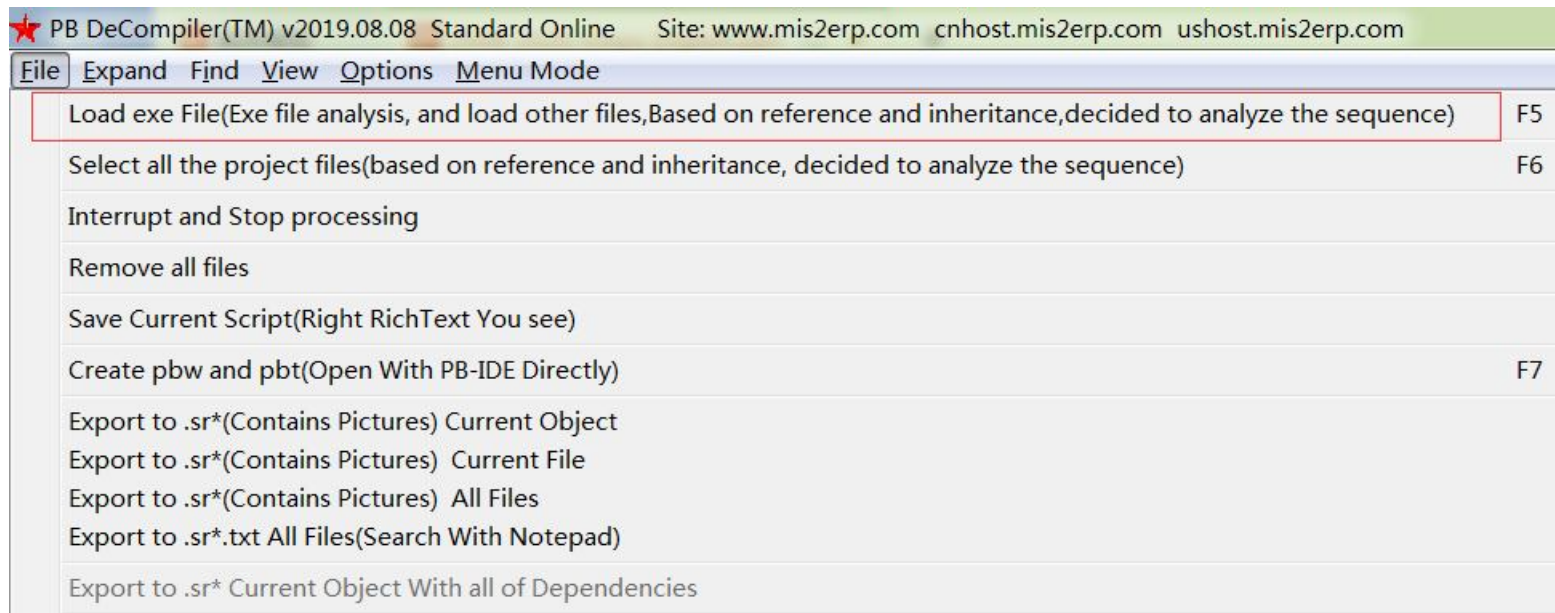
Step3.4 Passed the certification, we can use

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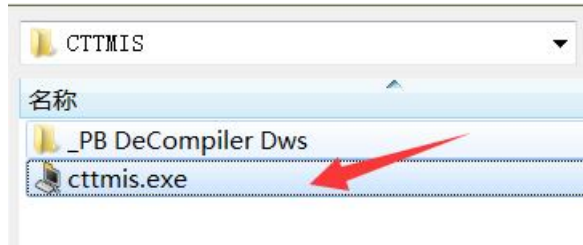
Step4.1 Choose Main-menu: File(F),SubitemMenu: first item menu To load your Project from Executable file. Other subsidiary files have been loaded.

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Step4.2 Select The main executable file.

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Step4.3 In accordance with the the inheritance and reference relations of objects, analyzed one by one, and decompilation

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PB DeCompiler(TM) v2019.08.08 Standard Online Site: www.mis2erp.com cnhost.mis2erp.com ushost.mis2erp.com

File Expand Find View Options Menu Mode

cttmis.exe	[FileID: 0/0bjQt	Object AnalyseEx Formally(A1): mmenu1.pbd/n_upfront_payment_day.men
cttmis.pbd	[FileID: 1/0bjQt	
Function1.pbd	[FileID: 2/0bjQt	
mmenu1.pbd	[FileID: 3/0bjQt	
picture1.pbd	[FileID: 4/0bjQt	
picture2.pbd	[FileID: 5/0bjQt	
struct1.pbd	[FileID: 6/0bjQt	
uobject1.pbd	[FileID: 7/0bjQt	
wacr1.pbd	[FileID: 8/0bjQt	
wagent.pbd	[FileID: 9/0bjQt	
wanalyse1.pbd	[FileID: 10/0bjQt	
wbilliten1.pbd	[FileID: 11/0bjQt	
wcust1.pbd	[FileID: 12/0bjQt	
wdirsale.pbd	[FileID: 13/0bjQt	
wreport.pbd	[FileID: 14/0bjQt	
wsales1.pbd	[FileID: 15/0bjQt	
wsample.pbd	[FileID: 16/0bjQt	
wstartup1.pbd	[FileID: 17/0bjQt	
wsystem1.pbd	[FileID: 18/0bjQt	
wsystem2.pbd	[FileID: 19/0bjQt	
wupfront1.pbd	[FileID: 20/0bjQt	
cstreport.pbd	[FileID: 21/0bjQt	
dacr1.pbd	[FileID: 22/0bjQt	
dagent1.pbd	[FileID: 23/0bjQt	
danalyse1.pbd	[FileID: 24/0bjQt	
dbilliten1.pbd	[FileID: 25/0bjQt	
dcust1.pbd	[FileID: 26/0bjQt	
ddirsale.pbd	[FileID: 27/0bjQt	
dpayment1.pbd	[FileID: 28/0bjQt	
dreport.pbd	[FileID: 29/0bjQt	
dsales1.pbd	[FileID: 30/0bjQt	
dsystem1.pbd	[FileID: 31/0bjQt	
dsystem2.pbd	[FileID: 32/0bjQt	
dsystem3.pbd	[FileID: 33/0bjQt	
dtable1.pbd	[FileID: 34/0bjQt	
dupfront1.pbd	[FileID: 35/0bjQt	
dwexport1.pbd	[FileID: 36/0bjQt	
guangxian.pbd	[FileID: 37/0bjQt	

m_upfront_payment_day.men - 6.82% Compile DateTime

Step4.4 Completion of the analysis process

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★ PB DeCompiler(TM) v2019.08.08 Standard Online EMAIL:chengang0769@gmail.com,chengang0769@21cn.com/QQ:273939617/MSN:chengang0769@live.cn

File Expand Find View Options Menu Mode

cttmis.exe	[FileID: 0/ObjQt	//PB DeCompiler(TM) v2019.08.08 Standard Online
cttmis.pbd	[FileID: 1/ObjQt	//Email:chengang0769@gmail.com,chengang0769@21cn.com/QQ:273939617/MSN:chengang0769@live.cn
function1.pbd	[FileID: 2/ObjQt	//cttmis.exe
mmenu1.pbd	[FileID: 3/ObjQt	//PB-IDE Version and Patch: 2007.05.03 11.0.0.6525
picture1.pbd	[FileID: 4/ObjQt	
picture2.pbd	[FileID: 5/ObjQt	
struct1.pbd	[FileID: 6/ObjQt	//File Obfuscated: NO!
uobject1.pbd	[FileID: 7/ObjQt	
wacr1.pbd	[FileID: 8/ObjQt	
wagent.pbd	[FileID: 9/ObjQt	//1.Object Analyse ERROR:
wanalyse1.pbd	[FileID: 10/ObjQt	//very good!No abnormality!
wbillitem1.pbd	[FileID: 11/ObjQt	
wcust1.pbd	[FileID: 12/ObjQt	
wdirsale.pbd	[FileID: 13/ObjQt	//2.Unknown Pcode,Stack ERROR:
wreport.pbd	[FileID: 14/ObjQt	//very good!No abnormality!
wsales1.pbd	[FileID: 15/ObjQt	
wsample.pbd	[FileID: 16/ObjQt	
wstartup1.pbd	[FileID: 17/ObjQt	
wsystem1.pbd	[FileID: 18/ObjQt	
wsystem2.pbd	[FileID: 19/ObjQt	
wupfront1.pbd	[FileID: 20/ObjQt	
cstreport.pbd	[FileID: 21/ObjQt	
dacr1.pbd	[FileID: 22/ObjQt	
dagent1.pbd	[FileID: 23/ObjQt	
danalyse1.pbd	[FileID: 24/ObjQt	
dbillitem1.pbd	[FileID: 25/ObjQt	
dcust1.pbd	[FileID: 26/ObjQt	
ddirsale.pbd	[FileID: 27/ObjQt	
dpayment1.pbd	[FileID: 28/ObjQt	
dreport.pbd	[FileID: 29/ObjQt	
dsales1.pbd	[FileID: 30/ObjQt	
dsystem1.pbd	[FileID: 31/ObjQt	
dsystem2.pbd	[FileID: 32/ObjQt	
dsystem3.pbd	[FileID: 33/ObjQt	
dtable1.pbd	[FileID: 34/ObjQt	
dupfront1.pbd	[FileID: 35/ObjQt	
dwexport1.pbd	[FileID: 36/ObjQt	
guangxian.pbd	[FileID: 37/ObjQt	

Step4.5 You can expand the file, on signature +, See codes and other details of object

PB DeCompiler(TM) v2019.08.08 Standard Online EMAIL:chengang0769@gmail.com,chengang0769@21cn.com/QQ:273939617/MSN:chengang0769@live.cn

File Expand Find View Options Menu Mode

cttmis.exe [FileID: 0/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
cttmis.pbd [FileID: 1/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
function1.pbd [FileID: 2/ObjQty: 43/DWQty: X/PicQty: X/Ver:PB11.0]

dw_err_msg.fun ObjID:000
f_blobtofile.fun ObjID:001
f_configodbc.fun ObjID:002
f_ddlb_addnewitem.fun ObjID:003
f_decimal_chinesecharacters.fun ObjID:004
f_decimal_chinesecharacters CtrlID:0000

Source
Shared Variables
Instance Variables
Structures
Local External Functions
Reference Functions&Events
Cryptic Reference Objects
Local Functions

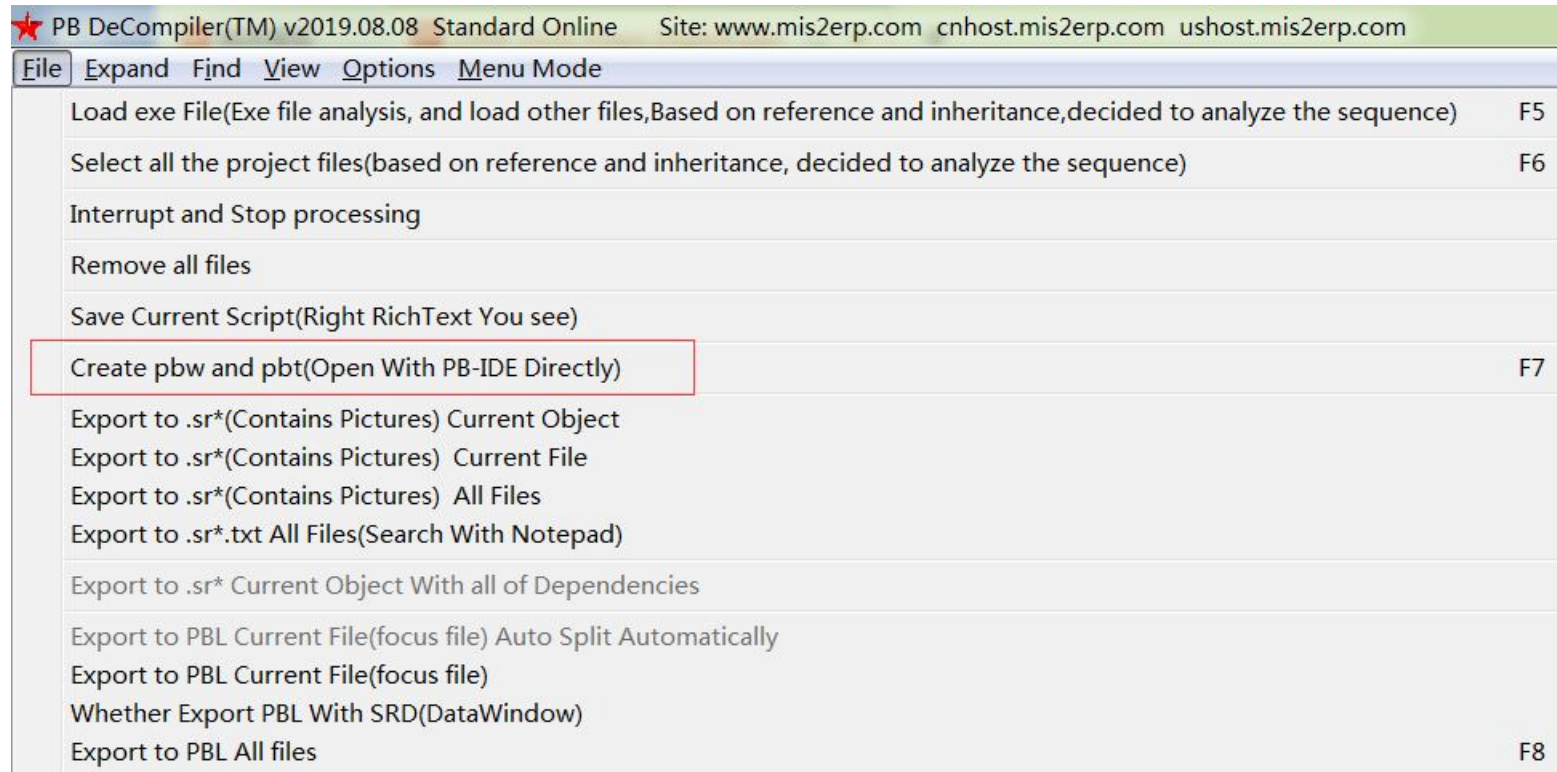
f_decimal_chinesecharacters FunctID: 000 [global function]

f_dw_colvisible.fun ObjID:005
f_dw_detailupdate.fun ObjID:006
f_dw_protectcolor.fun ObjID:007
f_dw_scroll.fun ObjID:008
f_dwdelrow.fun ObjID:009
f_dwexportxls.fun ObjID:010
f_dwfilter.fun ObjID:011
f_dwinsertrrow.fun ObjID:012
f_dwsort.fun ObjID:013
f_dwupdate.fun ObjID:014
f_edit_access.fun ObjID:015
f_encodestring.fun ObjID:016
f_export_excel_01.fun ObjID:017
f_filetoblob.fun ObjID:018
f_fillarray_bystring.fun ObjID:019
f_get_dwdberr.fun ObjID:020
f_layout_number_search.fun ObjID:021
f_menu_config.fun ObjID:022
f_menu_prepare.fun ObjID:023
f_menuchange.fun ObjID:024
f_menuchange_detail.fun ObjID:025
f_procedure_odbc_replacesql.fun ObjID:026
f_sum_number.fun ObjID:027
f_town_access.fun ObjID:028
f_winclosequery.fun ObjID:029
get_excelcolname.fun ObjID:030
gf_changeskin.fun ObjID:031
gf_fill_listbox.fun ObjID:032
gf_fill_listbox_ds.fun ObjID:033
gf_filldroplist.fun ObjID:034
gf_filldroplist_ds.fun ObjID:035
gf_get_hostinfo.fun ObjID:036

```
*****  
<0>f_decimal_chinesecharacters FunctID: 000 [global function string f_decimal_  
*****  
  
//can be debugged lines: 25  
string chinese_out  
string str_digital  
int i  
int j  
int d  
int offset  
int jump  
int offset2  
string chinese1_index[10] = {"零","壹","贰","叁","肆","伍","陆","柒","捌","玖"}  
string chinese2_index[11] = {"分","角","元","拾","佰","仟","万","拾","佰","仟","亿"}  
string chinese3_space = ""  
  
if out_unit then space_qty = 1  
  
chinese3_space = fill(" ",space_qty)  
str_digital = string(digital * 100)  
j = len(str_digital)  
  
for i = 1 to j  
    d = integer(mid(str_digital,i,1)) + 1  
    chinese_out = chinese_out + chinese1_index[d] + chinese3_space  
next  
  
do while left(chinese_out,1 + space_qty) = "零" + chinese3_space  
    chinese_out = mid(chinese_out,1 + space_qty + 1,len(chinese_out))  
loop  
  
chinese_out = chinese3_space + chinese_out  
  
if out_unit = true then  
    chinese_out = reverse(chinese_out)  
    j = len(chinese_out) / 2  
  
    for i = 1 to j  
        chinese_out = replace(chinese_out,i * 2 - 1,1,chinese2_index[i])  
    next  
  
    chinese_out = reverse(chinese_out)  
end if
```

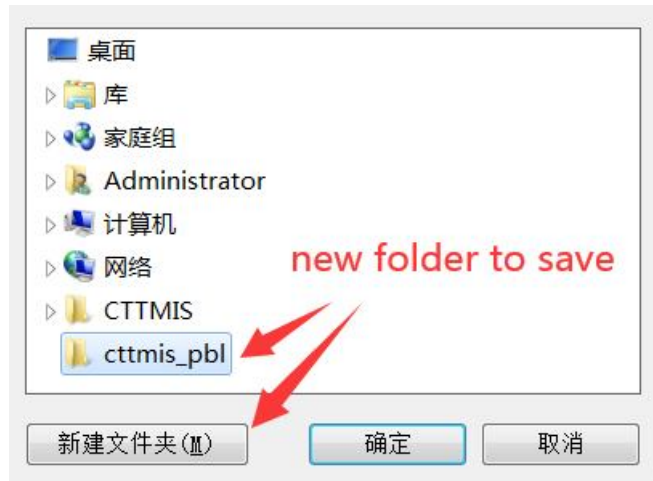
Step5.1 Generate pbw and pbt, they make all of the PBLs in a project.

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Step5.1 pic

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Step5.1 pic

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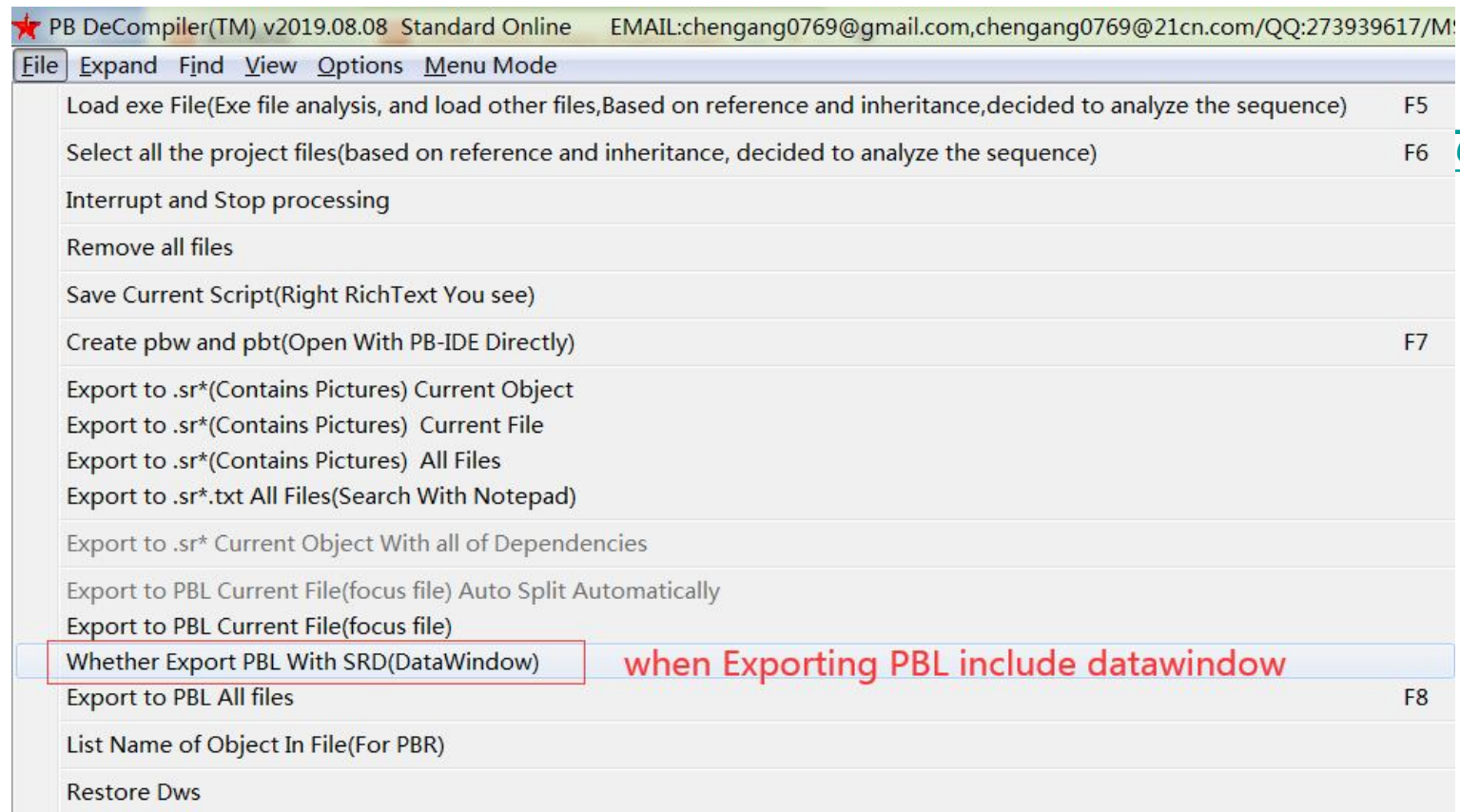
File Expand Find View Options Menu Mode

cttmis.exe	[FileID: 0/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
cttmis.pbd	[FileID: 1/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
function1.pbd	[FileID: 2/ObjQty: 43/DWQty: X/PicQty: X/Ver:PB11.0]
mmenu1.pbd	[FileID: 3/ObjQty: 73/DWQty: X/PicQty: X/Ver:PB11.0]
picture1.pbd	[FileID: 4/ObjQty: 2/DWQty: X/PicQty: 2/Ver:PB11.0]
picture2.pbd	[FileID: 5/ObjQty: X/DWQty: X/PicQty: X/Ver:PB11.0]
struct1.pbd	[FileID: 6/ObjQty: 9/DWQty: X/PicQty: X/Ver:PB11.0]
uobject1.pbd	[FileID: 7/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
wacr1.pbd	[FileID: 8/ObjQty: 37/DWQty: X/PicQty: X/Ver:PB11.0]
wagent.pbd	[FileID: 9/ObjQty: 15/DWQty: X/PicQty: X/Ver:PB11.0]
wanalyse1.pbd	[FileID: 10/ObjQty: 3/DWQty: X/PicQty: X/Ver:PB11.0]
wbillitem1.pbd	[FileID: 11/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
wcust1.pbd	[FileID: 12/ObjQty: 4/DWQty: X/PicQty: X/Ver:PB11.0]
wdirsale.pbd	[FileID: 13/ObjQty: 6/DWQty: X/PicQty: X/Ver:PB11.0]
wreport.pbd	[FileID: 14/ObjQty: 6/DWQty: X/PicQty: X/Ver:PB11.0]
wsales1.pbd	[FileID: 15/ObjQty: 18/DWQty: X/PicQty: X/Ver:PB11.0]
wsample.pbd	[FileID: 16/ObjQty: 2/DWQty: 1/PicQty: X/Ver:PB11.0]
wstartup1.pbd	[FileID: 17/ObjQty: 2/DWQty: X/PicQty: X/Ver:PB11.0]
wsystem1.pbd	[FileID: 18/ObjQty: 21/DWQty: X/PicQty: X/Ver:PB11.0]
wsystem2.pbd	[FileID: 19/ObjQty: 37/DWQty: X/PicQty: X/Ver:PB11.0]
wupfront1.pbd	[FileID: 20/ObjQty: 12/DWQty: X/PicQty: X/Ver:PB11.0]
cstreport.pbd	[FileID: 21/ObjQty: 11/DWQty: 11/PicQty: X/Ver:PB11.0]
dacr1.pbd	[FileID: 22/ObjQty: 131/DWQty: 131/PicQty: X/Ver:PB11.0]
dagent1.pbd	[FileID: 23/ObjQty: 22/DWQty: 22/PicQty: X/Ver:PB11.0]
danalyse1.pbd	[FileID: 24/ObjQty: 5/DWQty: 5/PicQty: X/Ver:PB11.0]
dbillitem1.pbd	[FileID: 25/ObjQty: 2/DWQty: 2/PicQty: X/Ver:PB11.0]
dcust1.pbd	[FileID: 26/ObjQty: 15/DWQty: 15/PicQty: X/Ver:PB11.0]
ddirsale.pbd	[FileID: 27/ObjQty: 6/DWQty: 6/PicQty: X/Ver:PB11.0]
dpayment1.pbd	[FileID: 28/ObjQty: 1/DWQty: 1/PicQty: X/Ver:PB11.0]
dreport.pbd	[FileID: 29/ObjQty: 8/DWQty: 8/PicQty: X/Ver:PB11.0]
dsales1.pbd	[FileID: 30/ObjQty: 37/DWQty: 37/PicQty: X/Ver:PB11.0]
dsystem1.pbd	[FileID: 31/ObjQty: 50/DWQty: 50/PicQty: X/Ver:PB11.0]
dsystem2.pbd	[FileID: 32/ObjQty: 5/DWQty: 5/PicQty: X/Ver:PB11.0]
dsystem3.pbd	[FileID: 33/ObjQty: 19/DWQty: 19/PicQty: X/Ver:PB11.0]
dtable1.pbd	[FileID: 34/ObjQty: 45/DWQty: 45/PicQty: X/Ver:PB11.0]
dupfront1.pbd	[FileID: 35/ObjQty: 39/DWQty: 39/PicQty: X/Ver:PB11.0]
dlexport1.pbd	[FileID: 36/ObjQty: 57/DWQty: 2/PicQty: X/Ver:PB11.0]
guangxian.pbd	[FileID: 37/ObjQty: 26/DWQty: 19/PicQty: X/Ver:PB11.0]

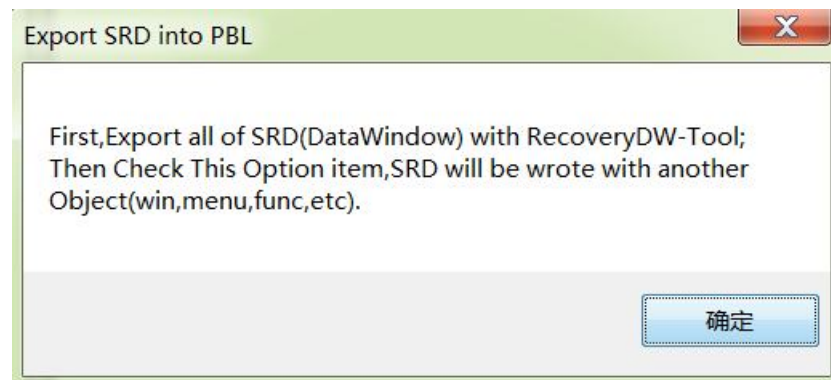
pbw and pbt for PB8 or later, you can directly open.
Lower than pb8, please select apl-object from "library file manager",
and then, specify the PBL search path(in the Properties-window of apl-object).
Please note that version, such as the PBDs is: / / PB-IDE Year and Patch: 2008.08.06 11.5.0.2506
You must use the same version or higher version to open.
Conversely, if the use of 11.5.0.1502 to open, it will prompt:
Targets - NOT opened
The following targets could not be opened and will be remove from the workspace.
That you are using a too low version of the PB, it could not be opened. Please install a higher version
To view the PBD's version, in the tree control, click the file name, see the right-window.

Pbw and pbt file has completed the creation.

Step5.2 Check-On the menu-option for written dw-syntax into PBL with others objects.

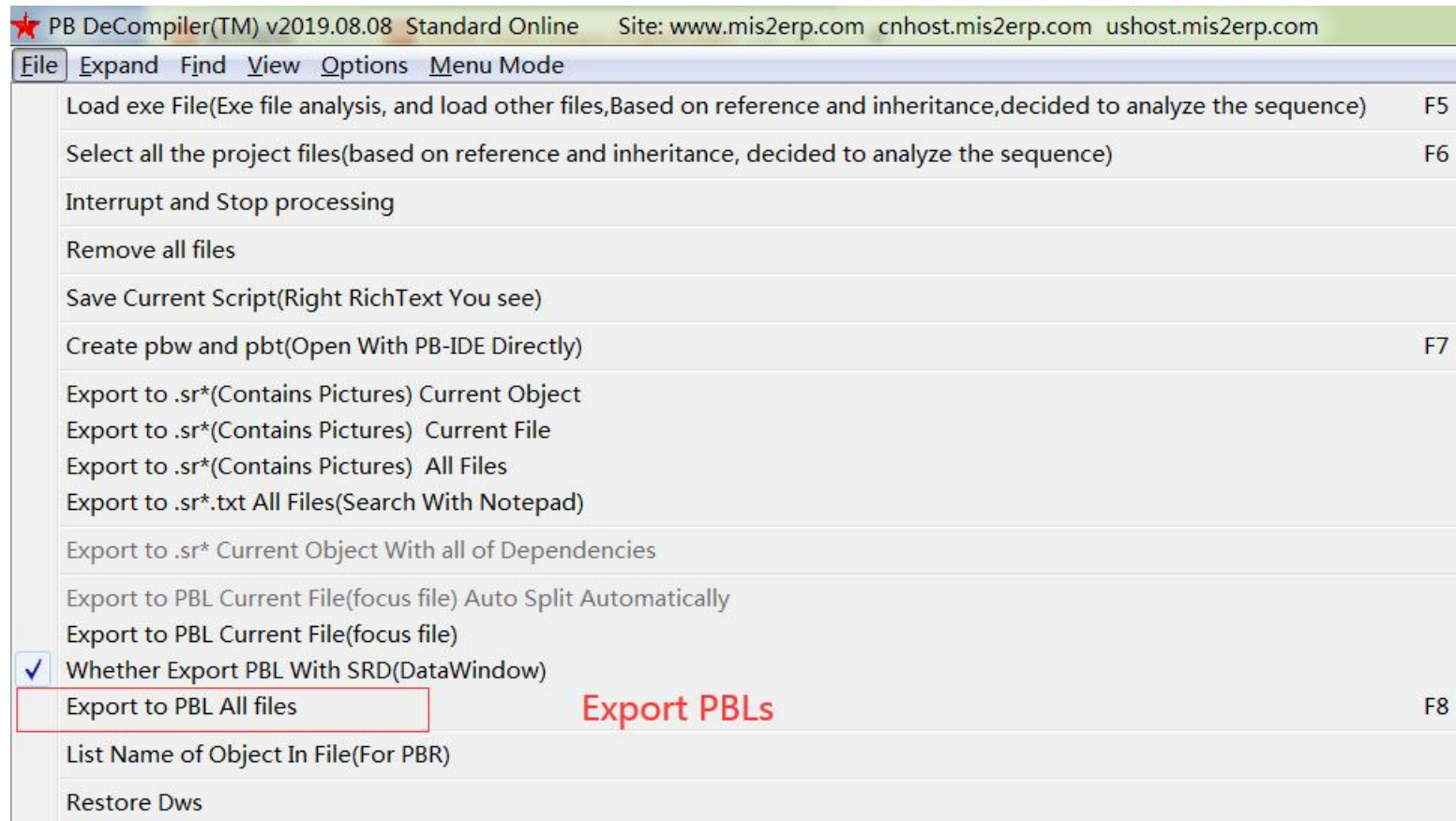


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Step5.3 Export PBLs. It is also the most important aspects.

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Step5.3 pic

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File Expand Find View Options Menu Mode

cttmis.exe	[FileID: 0/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
cttmis.pbd	[FileID: 1/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
Function1.pbd	[FileID: 2/ObjQty: 43/DWQty: X/PicQty: X/Ver:PB11.0]
nmenu1.pbd	[FileID: 3/ObjQty: 73/DWQty: X/PicQty: X/Ver:PB11.0]
picture1.pbd	[FileID: 4/ObjQty: 2/DWQty: X/PicQty: 2/Ver:PB11.0]
picture2.pbd	[FileID: 5/ObjQty: X/DWQty: X/PicQty: X/Ver:PB11.0]
struct1.pbd	[FileID: 6/ObjQty: 9/DWQty: X/PicQty: X/Ver:PB11.0]
uobject1.pbd	[FileID: 7/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
wacr1.pbd	[FileID: 8/ObjQty: 37/DWQty: X/PicQty: X/Ver:PB11.0]
wagent.pbd	[FileID: 9/ObjQty: 15/DWQty: X/PicQty: X/Ver:PB11.0]
wanalyse1.pbd	[FileID: 10/ObjQty: 3/DWQty: X/PicQty: X/Ver:PB11.0]
wbillitem1.pbd	[FileID: 11/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
wcust1.pbd	[FileID: 12/ObjQty: 4/DWQty: X/PicQty: X/Ver:PB11.0]
wdirsale.pbd	[FileID: 13/ObjQty: 6/DWQty: X/PicQty: X/Ver:PB11.0]
wreport.pbd	[FileID: 14/ObjQty: 6/DWQty: X/PicQty: X/Ver:PB11.0]
wsales1.pbd	[FileID: 15/ObjQty: 18/DWQty: X/PicQty: X/Ver:PB11.0]
wsample.pbd	[FileID: 16/ObjQty: 2/DWQty: 1/PicQty: X/Ver:PB11.0]
wstartup1.pbd	[FileID: 17/ObjQty: 2/DWQty: X/PicQty: X/Ver:PB11.0]
wsystem1.pbd	[FileID: 18/ObjQty: 21/DWQty: X/PicQty: X/Ver:PB11.0]
wsystem2.pbd	[FileID: 19/ObjQty: 37/DWQty: X/PicQty: X/Ver:PB11.0]
wupfront1.pbd	[FileID: 20/ObjQty: 12/DWQty: X/PicQty: X/Ver:PB11.0]
wstreport.pbd	[FileID: 21/ObjQty: 11/DWQty: 11/PicQty: X/Ver:PB11.0]
wacr1.pbd	[FileID: 22/ObjQty: 131/DWQty: 131/PicQty: X/Ver:PB11.0]
wagent1.pbd	[FileID: 23/ObjQty: 22/DWQty: 22/PicQty: X/Ver:PB11.0]
wanalyse1.pbd	[FileID: 24/ObjQty: 5/DWQty: 5/PicQty: X/Ver:PB11.0]

Finish writing all files.

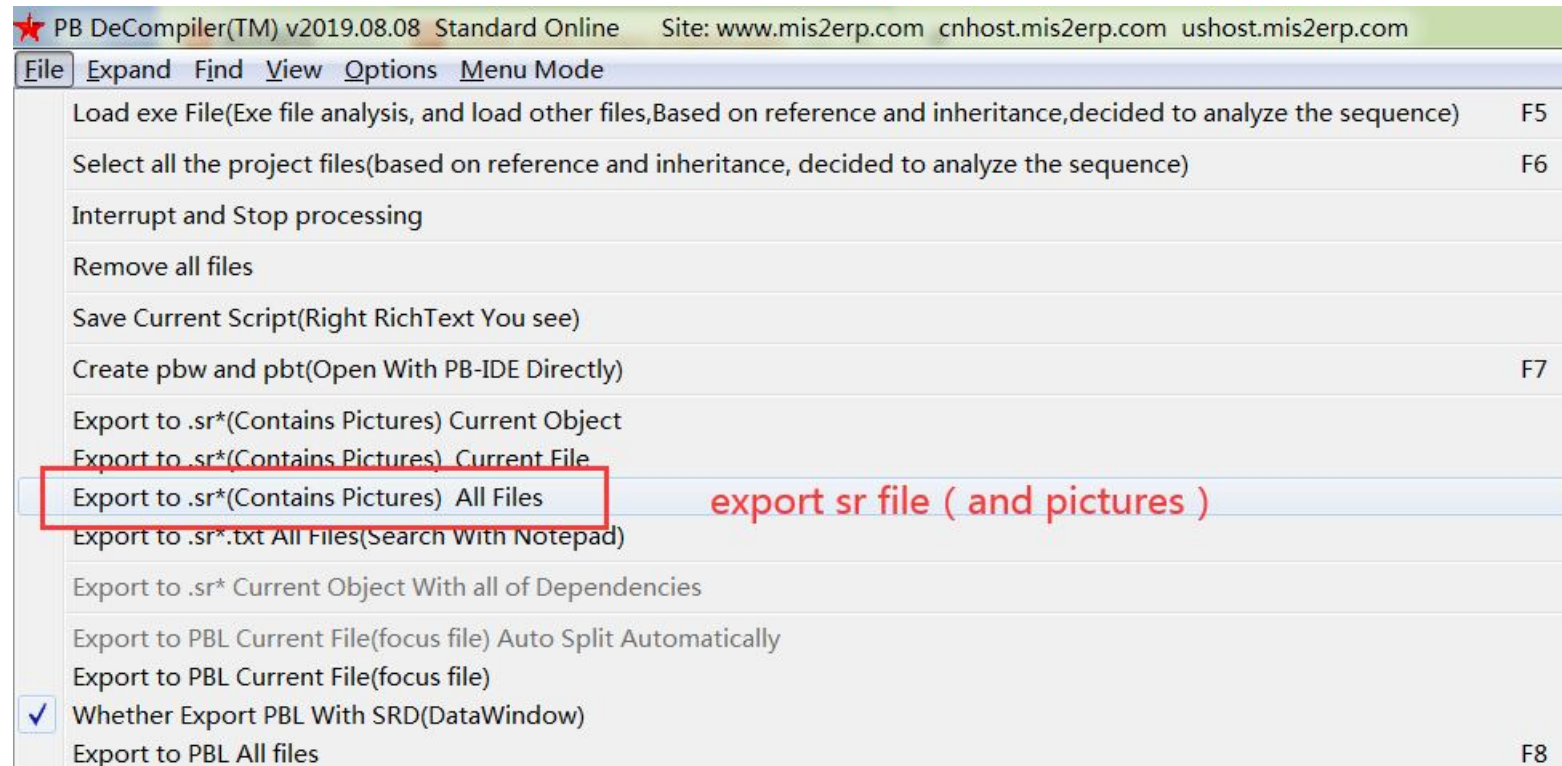
finished

```
cttmis.exe
>>>No Object to write,skip!
Now write the file: cttmis.pbl.....
Object: cttmis.apl.....Binary
Object: cttmis.apl.....Source
>>>Finish writing a file: cttmis.pbl,continue.....
Now write the file: function1.pbl.....
Object: dw_err_msg.fun.....Binary
Object: dw_err_msg.fun.....Source
Object: f_blobtofile.fun.....Binary
Object: f_blobtofile.fun.....Source
Object: f_configdbc.fun.....Binary
Object: f_configdbc.fun.....Source
Object: f_ddlb_addnewitem.fun.....Binary
Object: f_ddlb_addnewitem.fun.....Source
Object: f_decimal_chinesecharacters.fun.....Binary
Object: f_decimal_chinesecharacters.fun.....Source
Object: f_dw_colvisible.fun.....Binary
Object: f_dw_colvisible.fun.....Source
Object: f_dw_detailupdate.fun.....Binary
```

PB DeCompiler(TM) @2008-2019 High efficiency and fast recovery. function1.pbd/pbd/Unicode 174080B Ver:PB11.0

Step5.4 Export Sr, Is not required, can be used when needed.
Important, the picture is also derived here.

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Step5.4 pic

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Step5.4 pic

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File Expand Find View Options Menu Mode

cttmis.exe	[FileID: 0/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
cttmis.pbd	[FileID: 1/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
Function1.pbd	[FileID: 2/ObjQty: 43/DWQty: X/PicQty: X/Ver:PB11.0]
mmenu1.pbd	[FileID: 3/ObjQty: 73/DWQty: X/PicQty: X/Ver:PB11.0]
picture1.pbd	[FileID: 4/ObjQty: 2/DWQty: X/PicQty: 2/Ver:PB11.0]
picture2.pbd	[FileID: 5/ObjQty: X/DWQty: X/PicQty: X/Ver:PB11.0]
struct1.pbd	[FileID: 6/ObjQty: 9/DWQty: X/PicQty: X/Ver:PB11.0]
uobject1.pbd	[FileID: 7/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
wacr1.pbd	[FileID: 8/ObjQty: 37/DWQty: X/PicQty: X/Ver:PB11.0]
wagent.pbd	[FileID: 9/ObjQty: 15/DWQty: X/PicQty: X/Ver:PB11.0]
wanalyse1.pbd	[FileID: 10/ObjQty: 3/DWQty: X/PicQty: X/Ver:PB11.0]
wbillitem1.pbd	[FileID: 11/ObjQty: 1/DWQty: X/PicQty: X/Ver:PB11.0]
wcust1.pbd	[FileID: 12/ObjQty: 4/DWQty: X/PicQty: X/Ver:PB11.0]
wdirsale.pbd	[FileID: 13/ObjQty: 6/DWQty: X/PicQty: X/Ver:PB11.0]
wreport.pbd	[FileID: 14/ObjQty: 6/DWQty: X/PicQty: X/Ver:PB11.0]

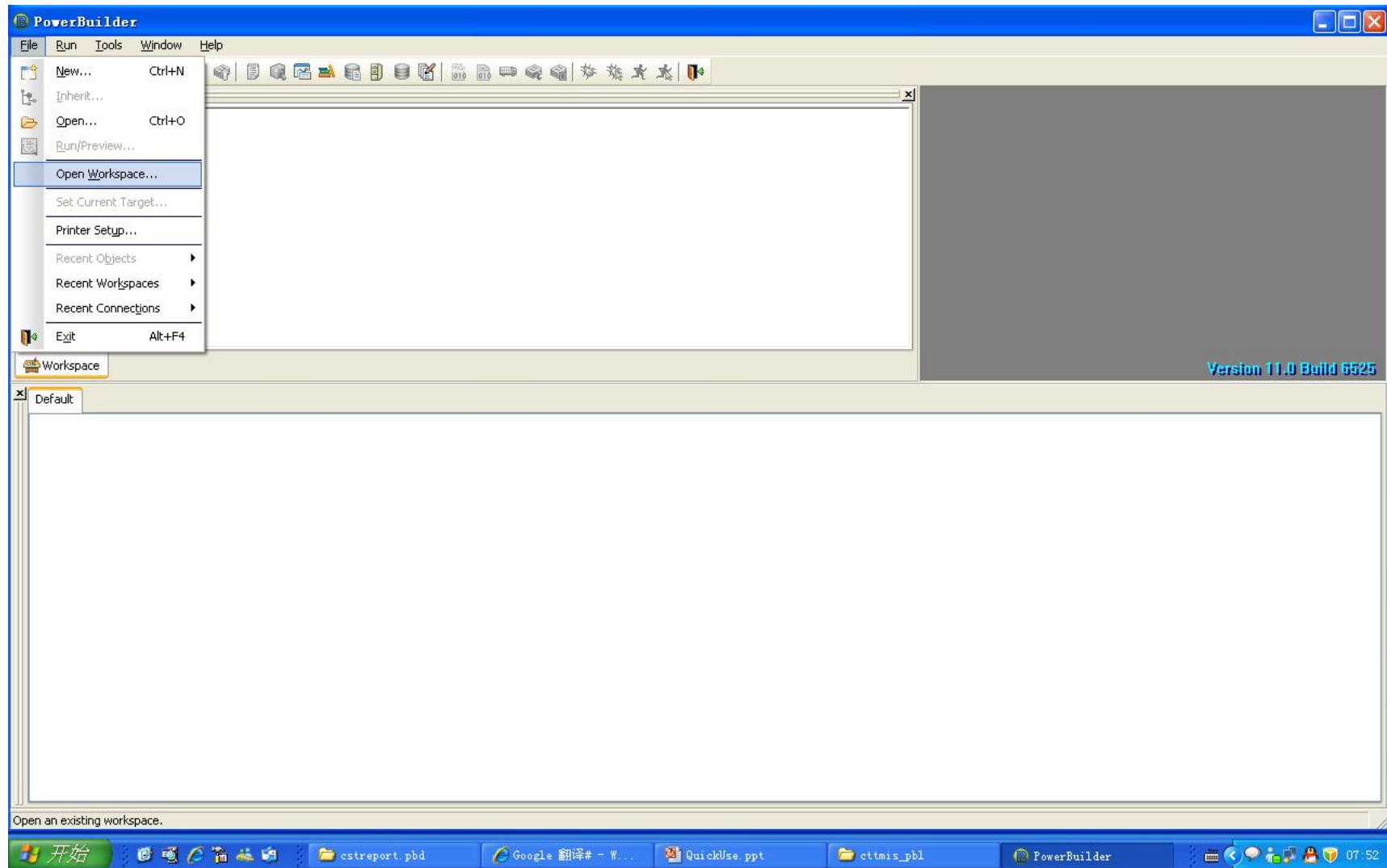
Finish writing all files.

cttmis.exe
cttmis.pbd
 cttmis.apl
function1.pbd
 dw_err_msg.fun
 f_blobtofile.fun
 f_configodbc.fun
 f_ddlb_addnewitem.fun
 f_decimal_chinesecharacters.fun
 f_dw_colvisible.fun
 f_dw_detailupdate.fun
 f_dw_protectcolor.fun
 f_dw_scroll.fun
 f_dwdelrow.fun
 f_dwexportxls.fun
 f_dwfilter.fun
 f_dwinsertrow.fun
 f_dwsort.fun
 f_dwupdate.fun
 f_edit_access.fun
 f_encodestring.fun
 f_export_excel_01.fun

log

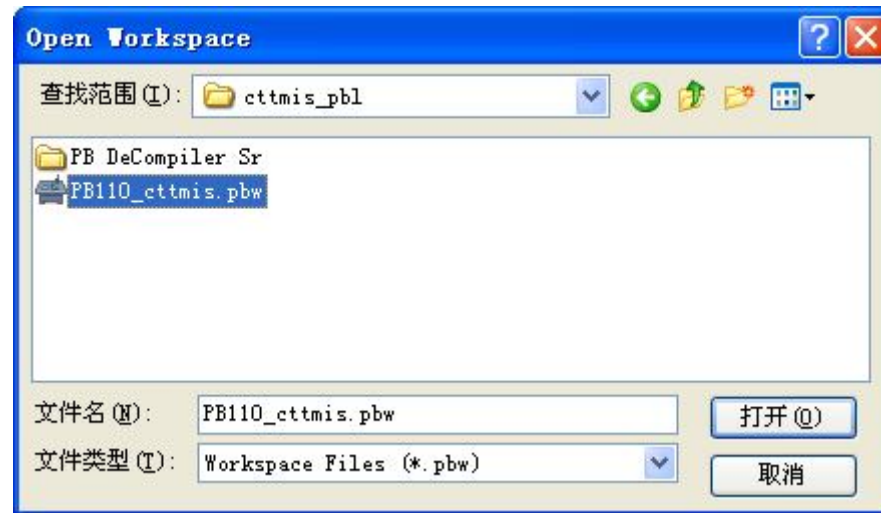
Step6.1 In Pb, open your new project, On the menu: File->open WorkSpace

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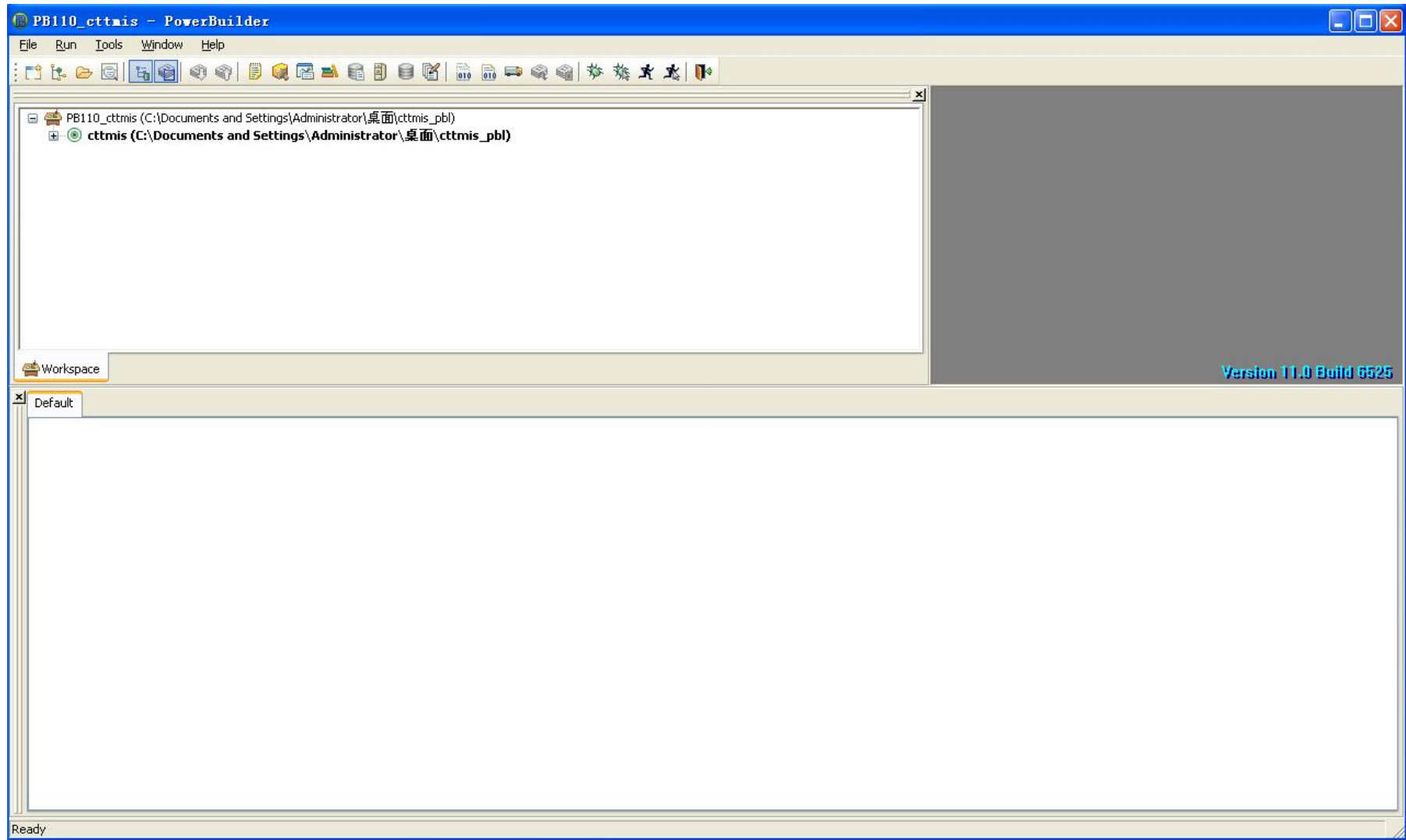
Step6.1 pic

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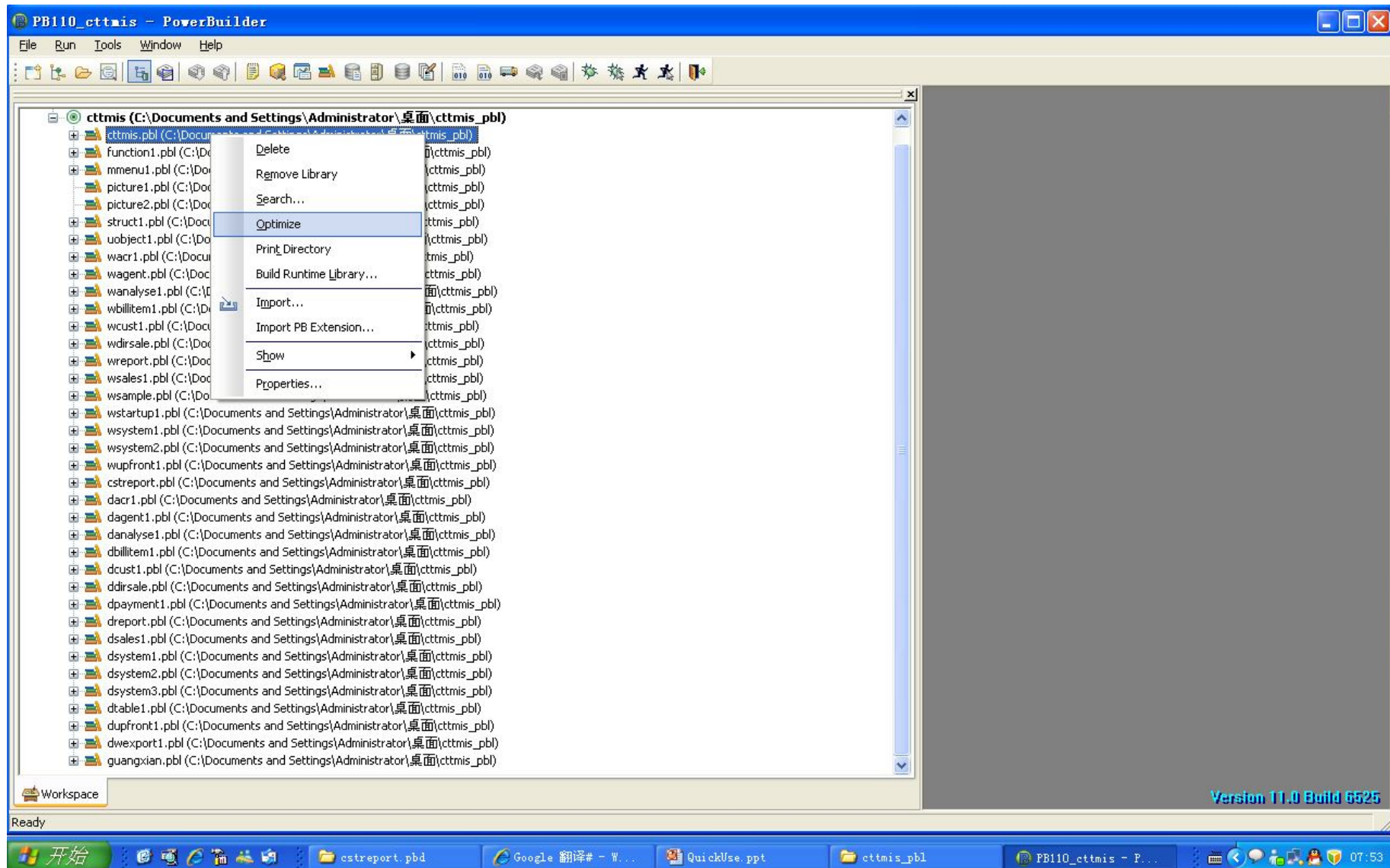
Step6.1 pic

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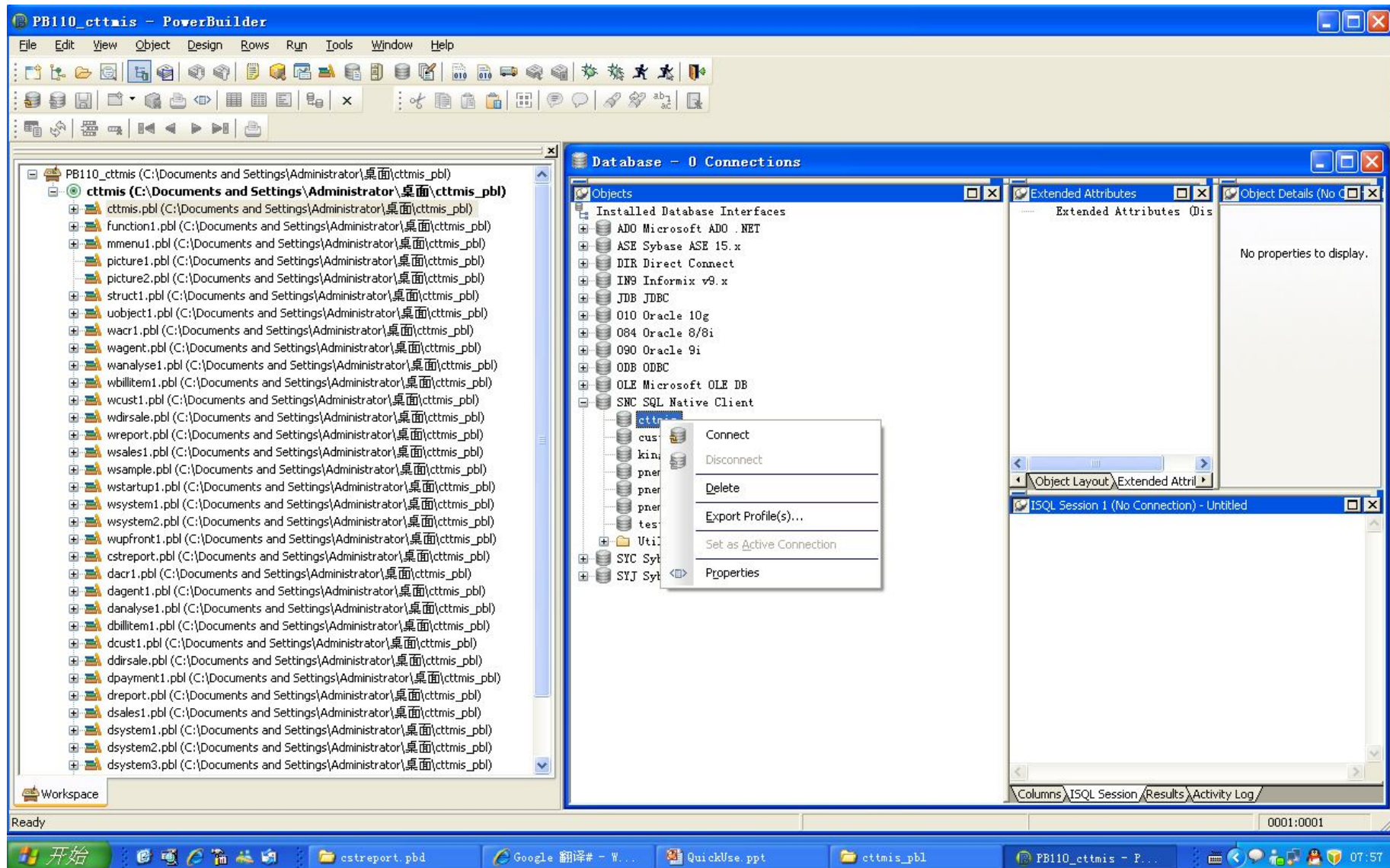
Step6.2 Optimize each one pbl

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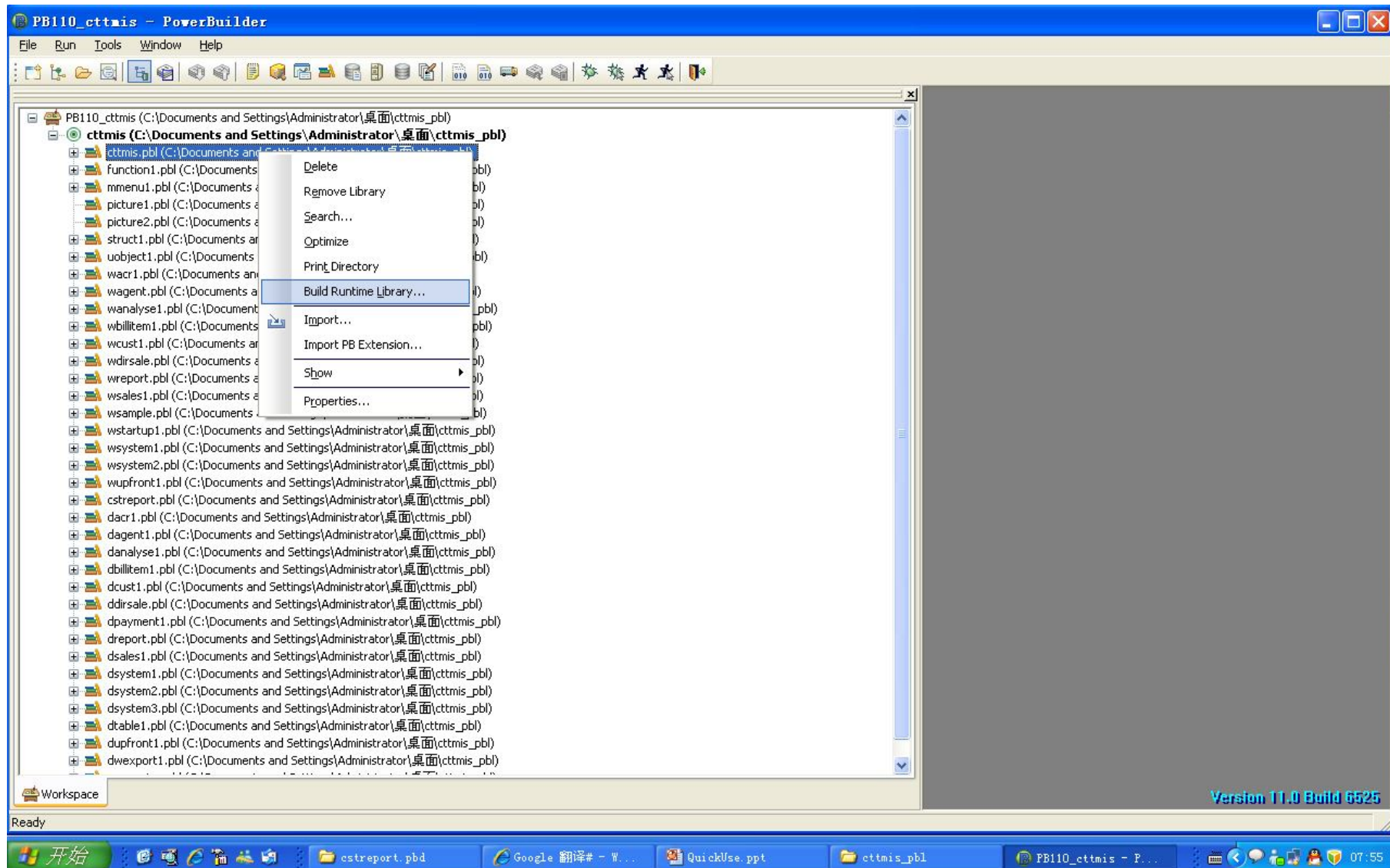
Step6.3 In DataBase painter, Build and connect to a DB.
Can be the original or any one.

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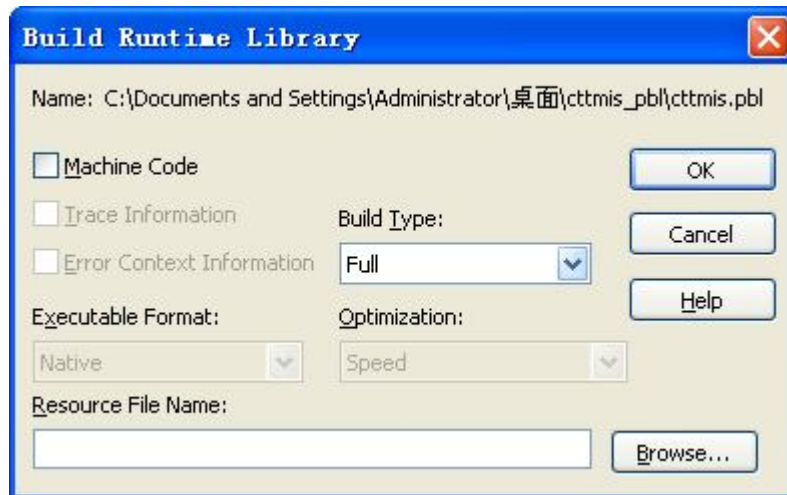
Step6.4 Compile any PBL file. full compile mode. On Right-Button-Menu:
Build Runtime Library.

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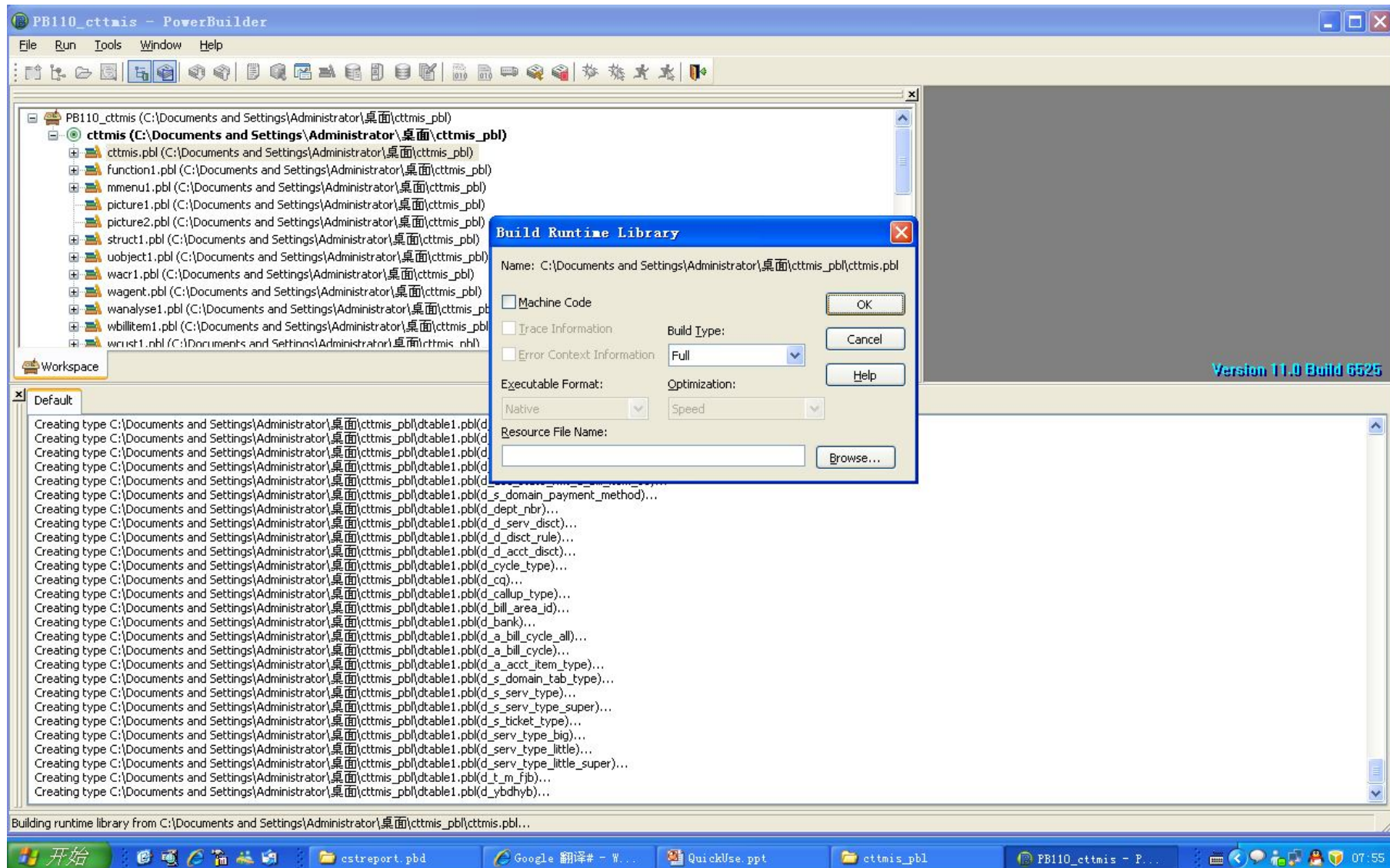
Step6.4 pic

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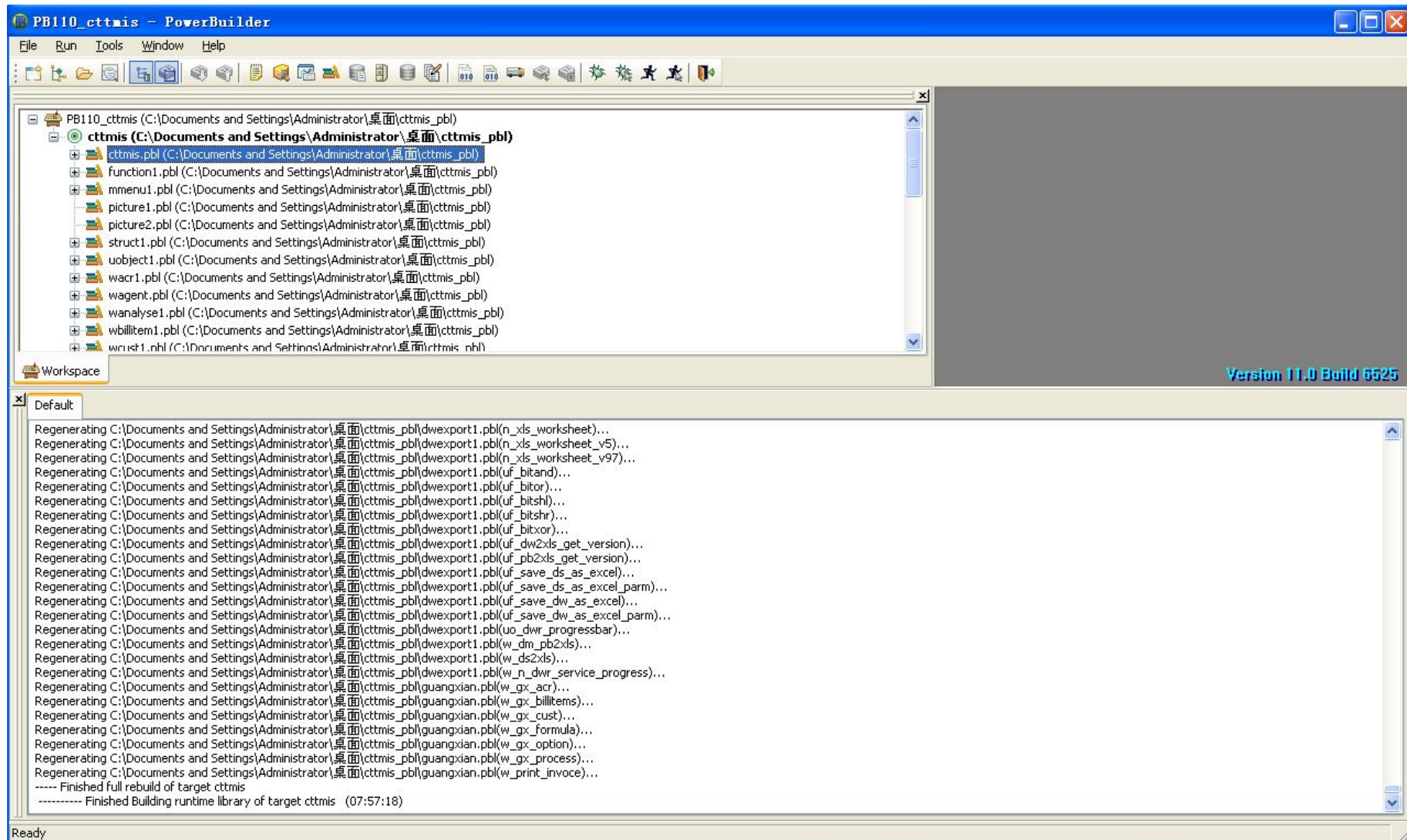
Step6.4 pic

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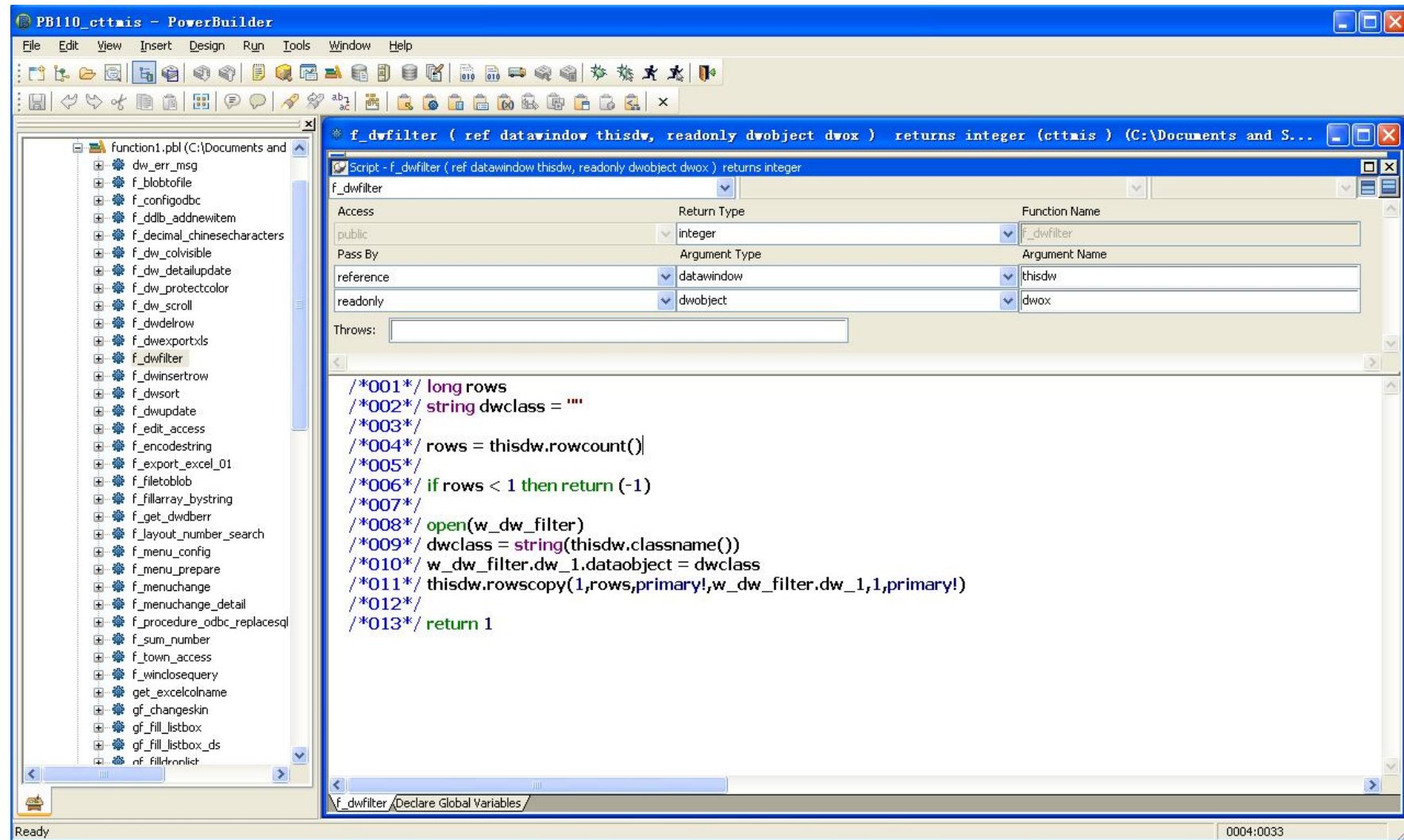
Step6.4 pic

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Step6.5 Expand pbl file, look at the object code

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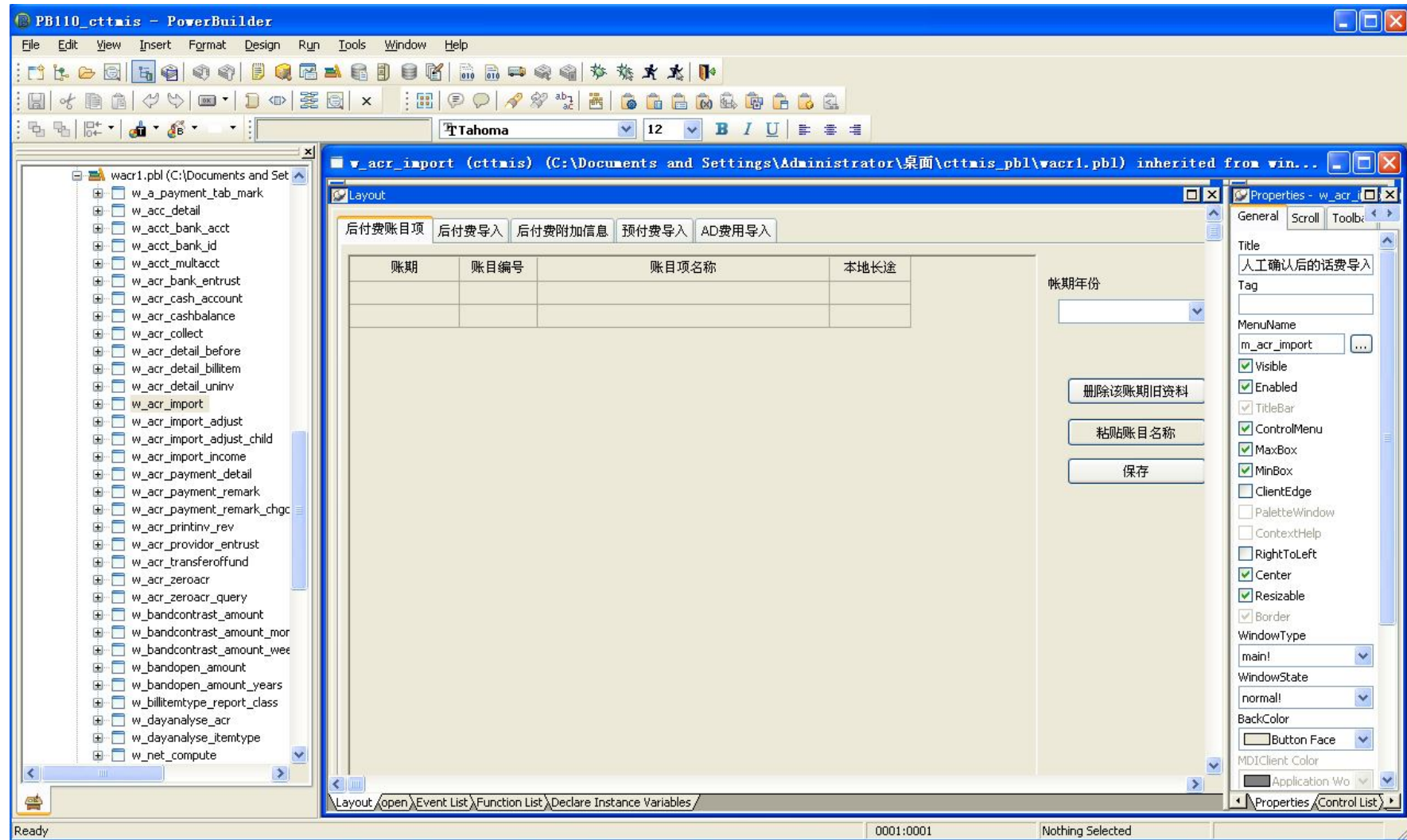


- Exported PBL, when double-click to open an object, some code will appear in the other events.

Before you make any changes, close the object, right click on the object name -> Source Edit. find any blank lines in the source, position the cursor on a blank line, and hit a spacebar. Saved. This problem can be corrected.

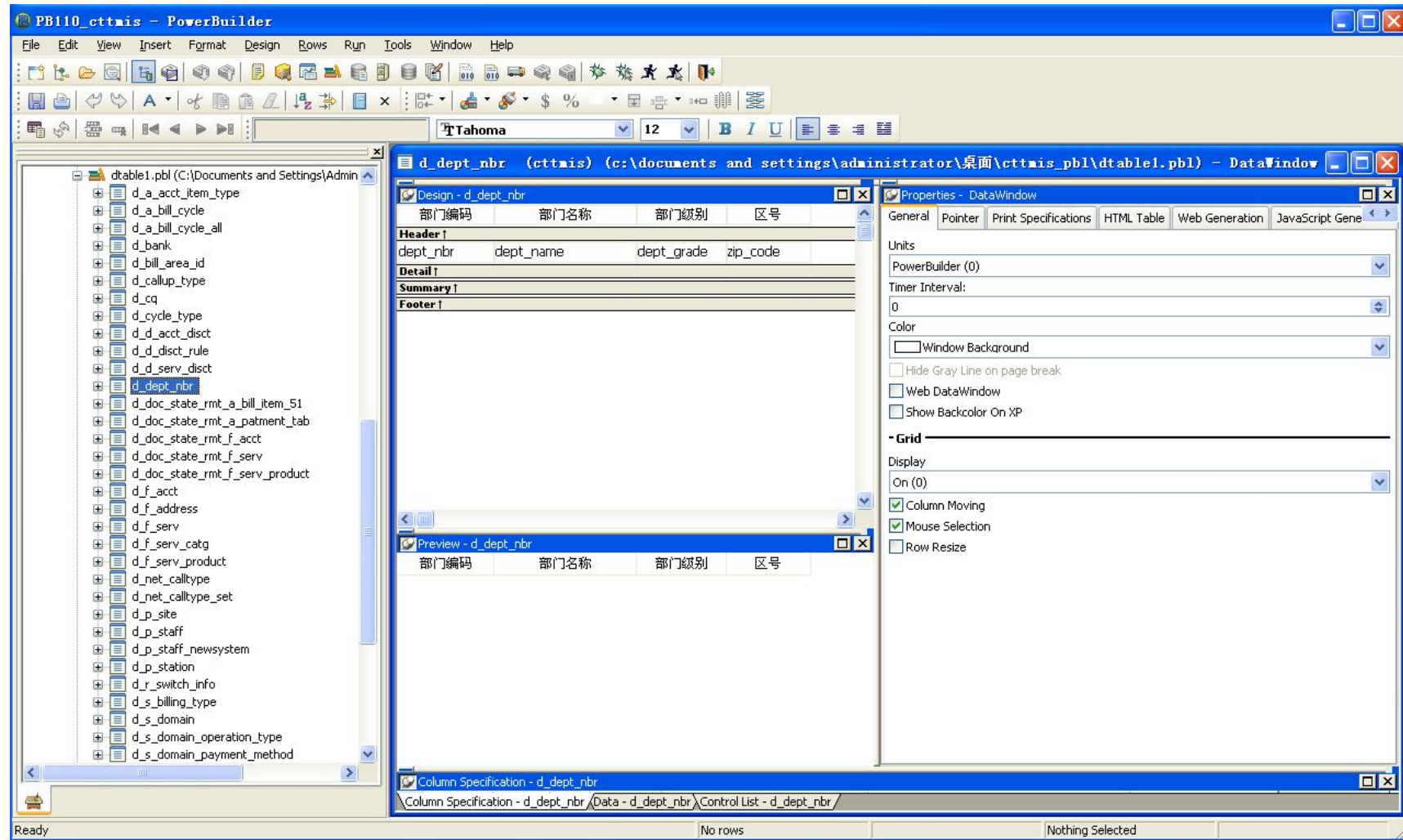
Step6.5 pic

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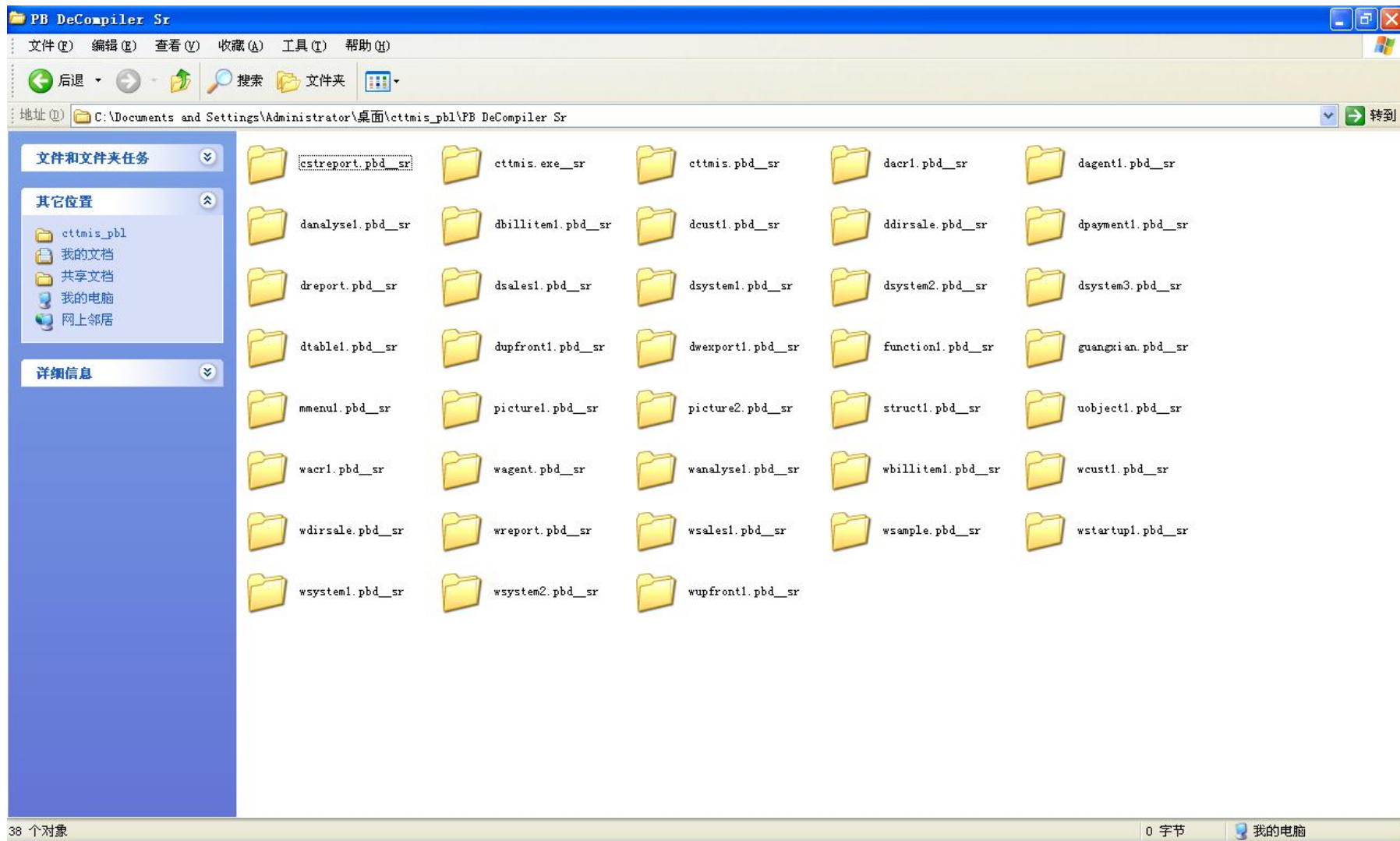
Step6.5 pic

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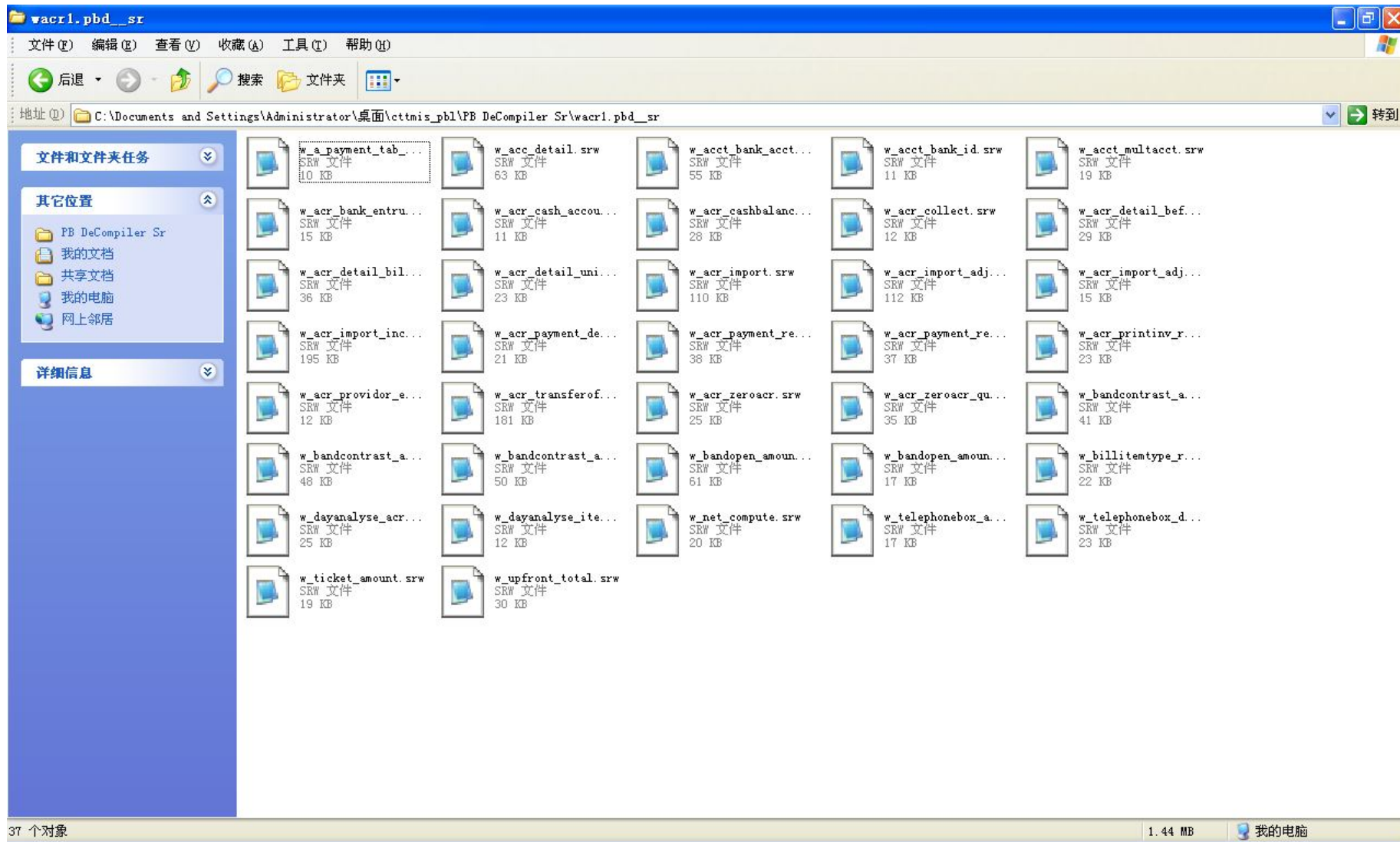
Step7.1 See Source. (sr files)

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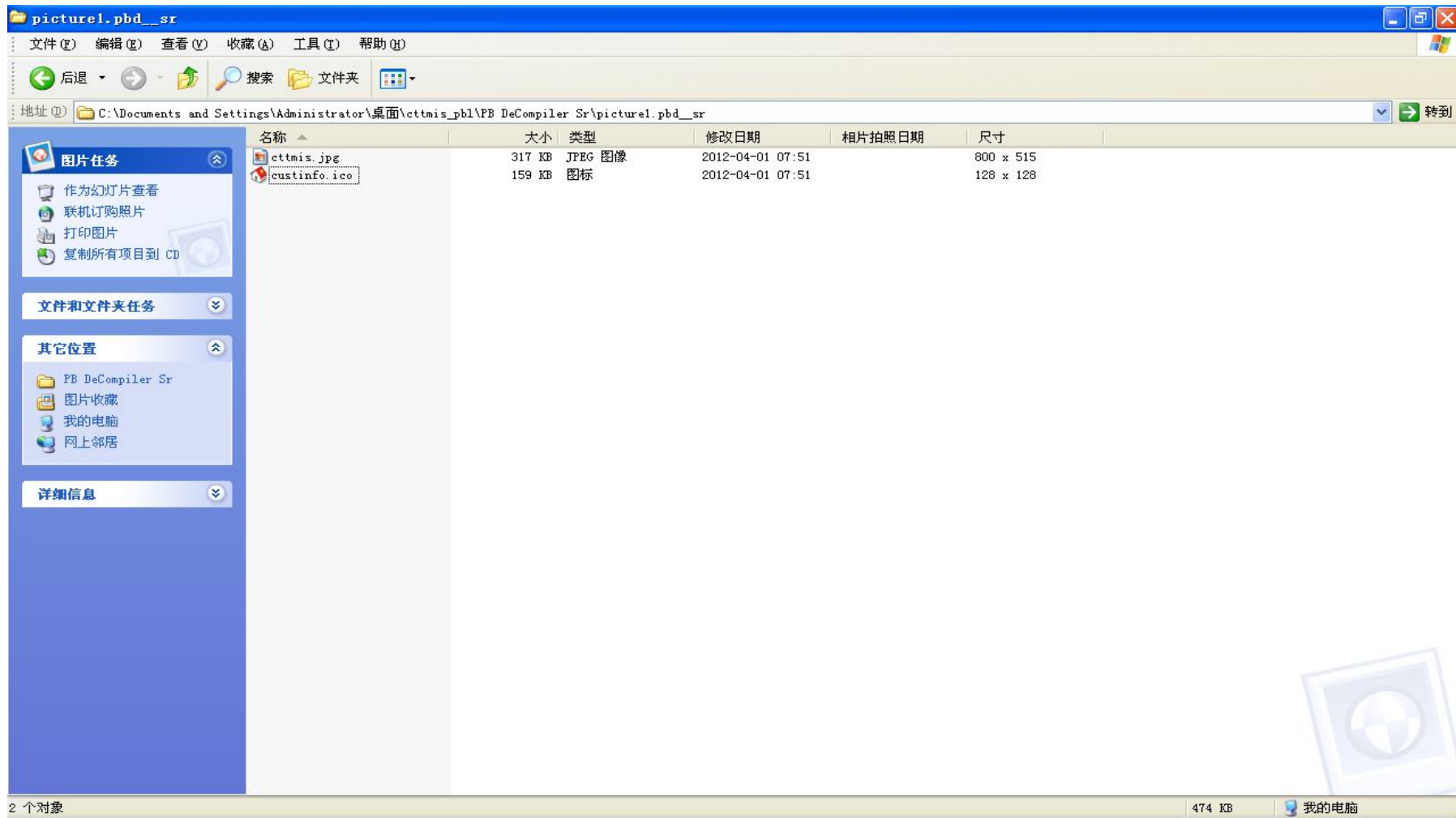
Step7.1 pic

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Step7.2 Pictures are also in this folder

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If create List of Pictures, u can open **Dos CommandLine window**. and:

cd yourpath

Dir/b >abc.pbr

Or in DeCompiler,selected a PBD, Menu>File>List name of Object in File(For PBR)

- Thank you, have any need please contact me.

How to contact, please see the contact information of the software above.