

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.

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

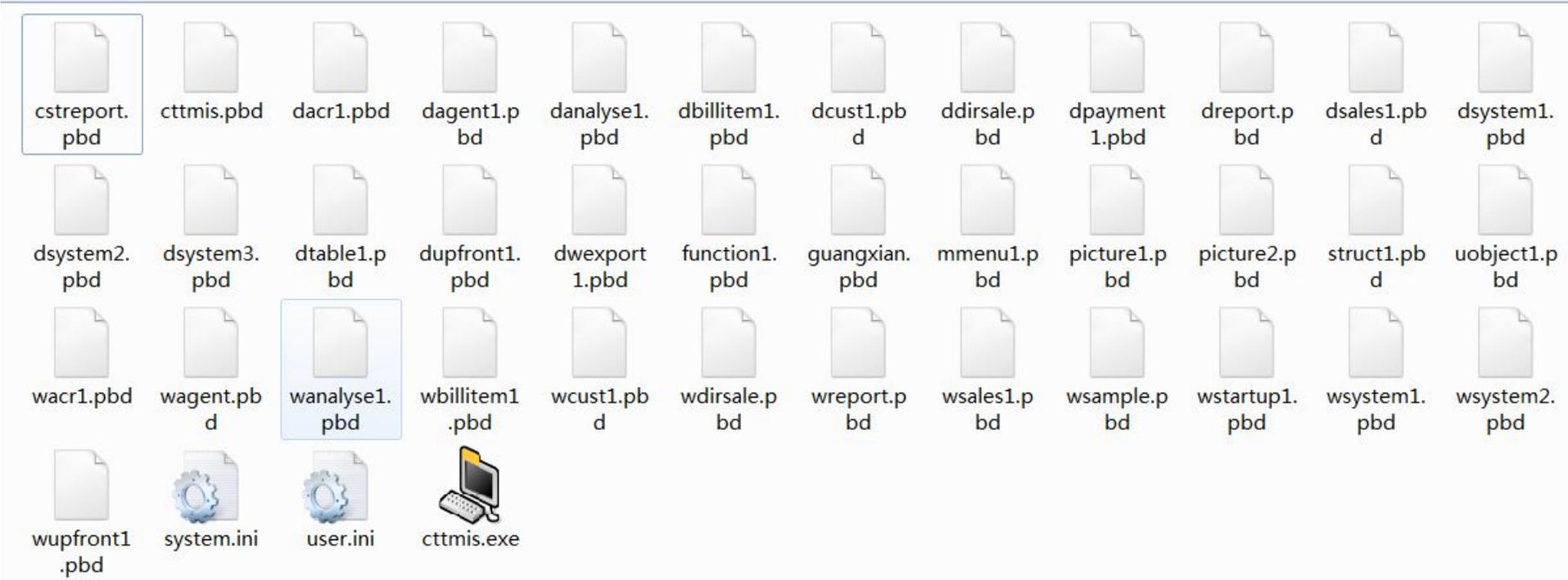
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中文处理步骤说明

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, 找到一个空自行, 光标停在空自行上, 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。

Step1: Copy your files from Applicaton Installation path WITHOUT RUNTIME DLL
And Copy to new folder. Eg. On desktop.

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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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RecoveryDW 1.0(PB DeCompiler)

DataWindow 对象列表 15 of 418

导出当前DW 导出全部DW 打开其他文件

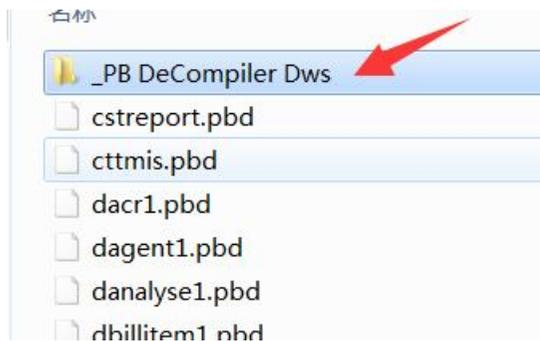
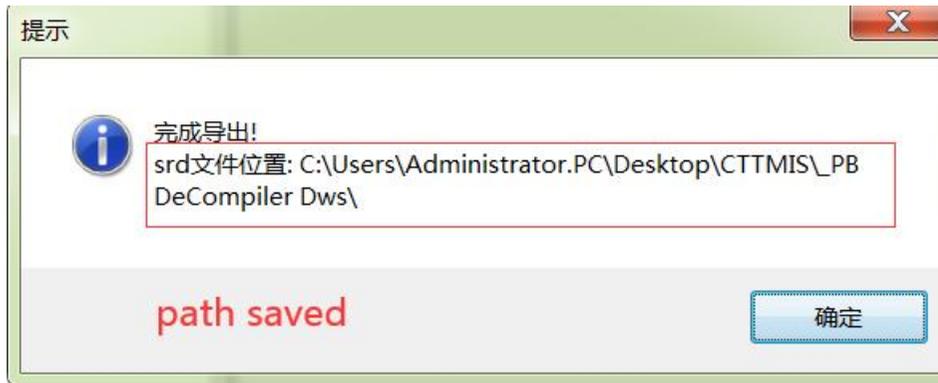
dcust1.pbd

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

电话号码	长权	呼限
		<input type="checkbox"/>
		<input type="checkbox"/>

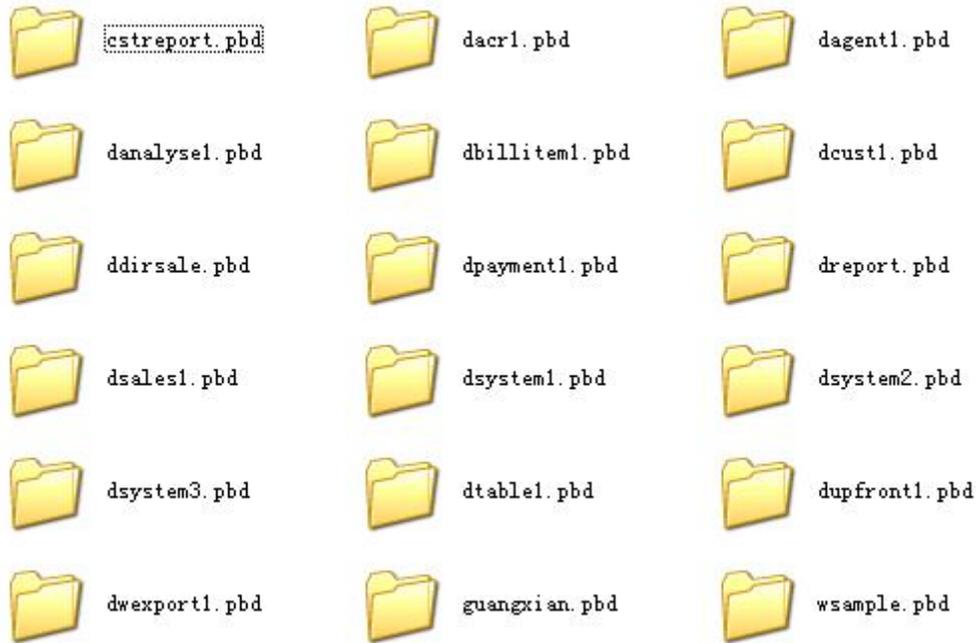
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Step2: pic



Step2: pic

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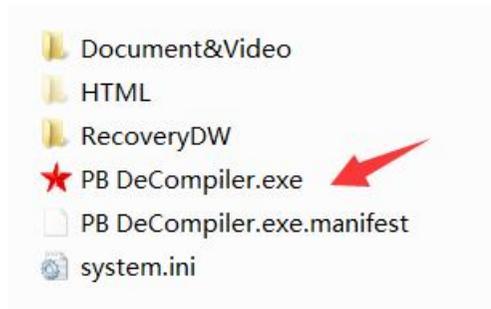
Step2: pic

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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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```
★ 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
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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```
★ PB DeCompiler(TM) v2019.08.08 Standard Online EMAIL:chengang0769@gmail.com,chengang0769@21cn.com/QQ:273939617/MSN:chengang0769@live.cn
File Expand Fjnd View Options Menu Mode
MachineID: <Allow> FileCRC: <Allow> AuthorizedDate: <2028-12-31 Allow> versions: <50/90/100/115/120/125/110/70/60/105>
Pass authentication.....

Authentication server No.: 3

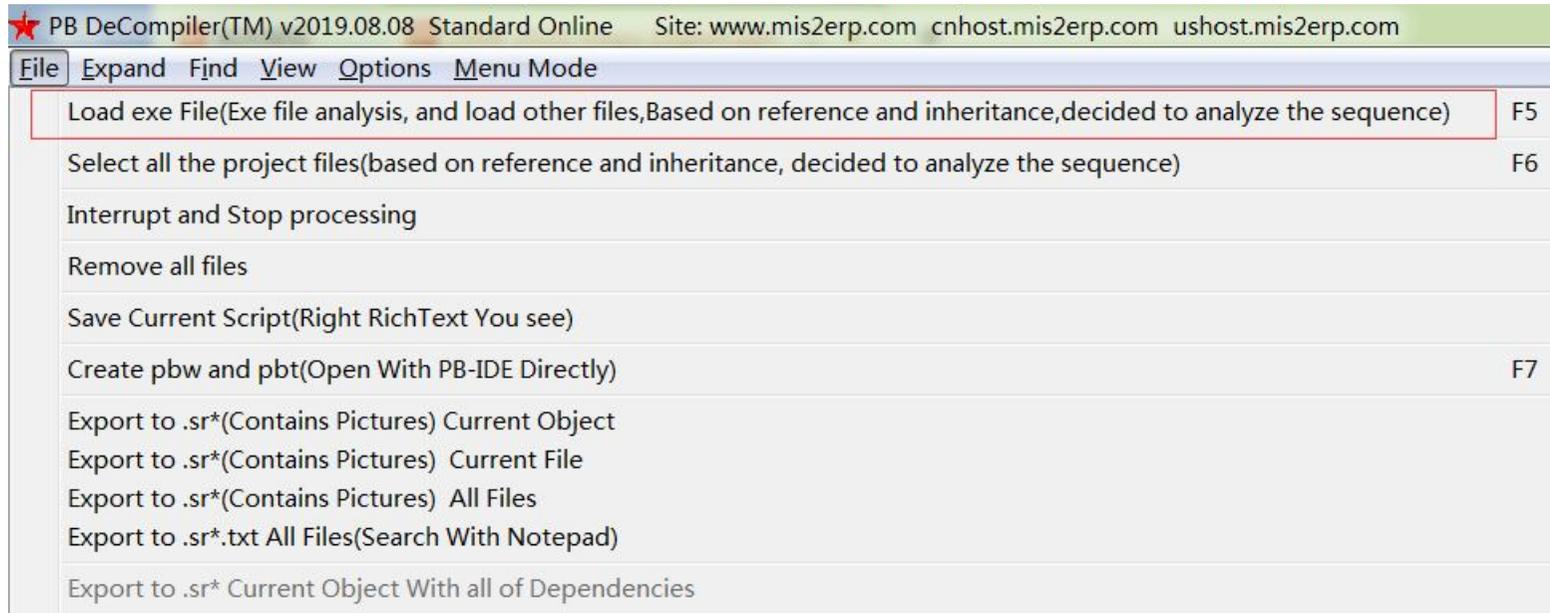
Legal Disclaimer:
Please ensure that only the owner of intellectual property code, to recover.
User behavior should be bound by the laws of countries and regions.

In general, commercial software will be prohibited reverse analysis, decompile, crack, piracy.
Users use this software, you should clearly know the nature of the act belongs.
For any consequences arising therefrom, all by the user.

You can choose not to use this software, please when you see the statement, close and exit the software.
If you click on any menu and use the software to show that you agree to the agreement.
```

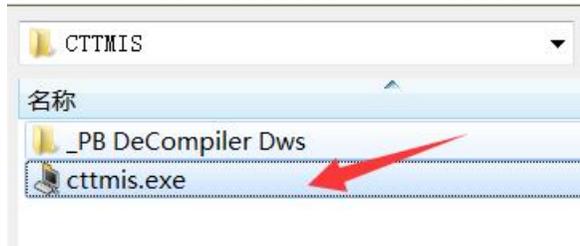
Step4.1 Choose Main-menu: File(F),SubitemMenu: first item menu To load your Project from Executable file. Other subsidiary files have been loaded.

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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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The screenshot shows the PB DeCompiler v2019.08.08 Standard Online interface. The top bar includes the application name and version, and the website address: www.mis2erp.com. The main window is divided into three sections:

- File List:** A list of files with their corresponding FileIDs. The files are sorted by FileID, ranging from 0 to 37. The files include .exe, .pbd, and .men files.
- Object Analysis:** A detailed view of the selected object, 'mmenu1.pbd/n_upfront_payment_day.men'. It shows the object name and its FileID: 2/0bjQt.
- Bottom Panel:** A panel showing the current file being analyzed: 'm_upfront_payment_day.men', its size: '6.82%', and the compile date/time.

File Name	FileID
cttmis.exe	[FileID: 0/0bjQt]
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]
wbillitem1.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]
dbillitem1.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]

Step4.4 Completion of the analysis process

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File Expand Find View Options Menu Mode

File	FileID	Analysis Result
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	//2.Unknown Pcode,Stack ERROR:
wdirsale.pbd	[FileID: 13/ObjQt	//very good!No abnormality!
wreport.pbd	[FileID: 14/ObjQt	
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 CtrID: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]

```

*****
<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

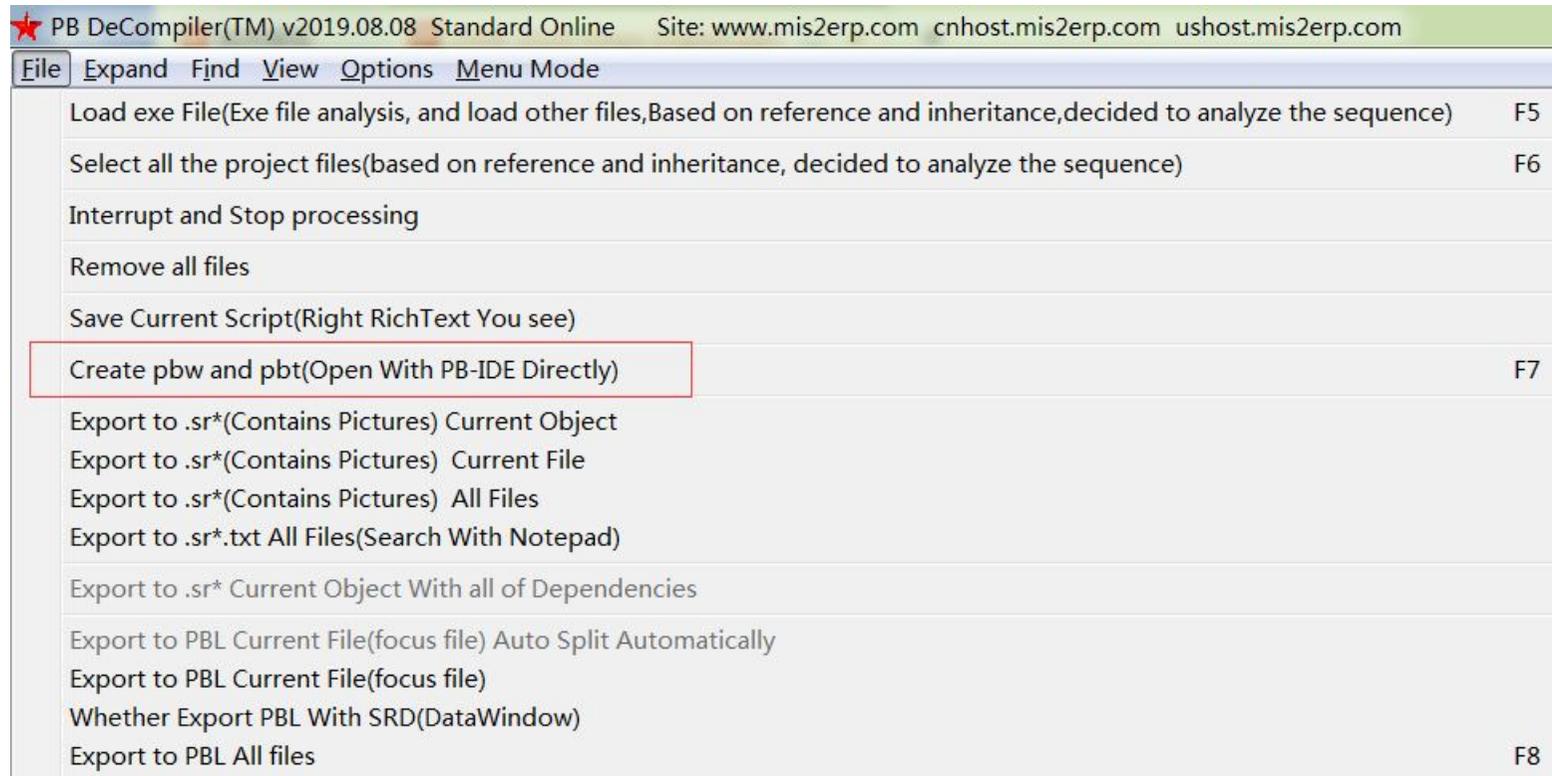
if out_unit = true then
    chinese_out = reverse(chinese_out)
    j = len(chinese_out) / 2

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

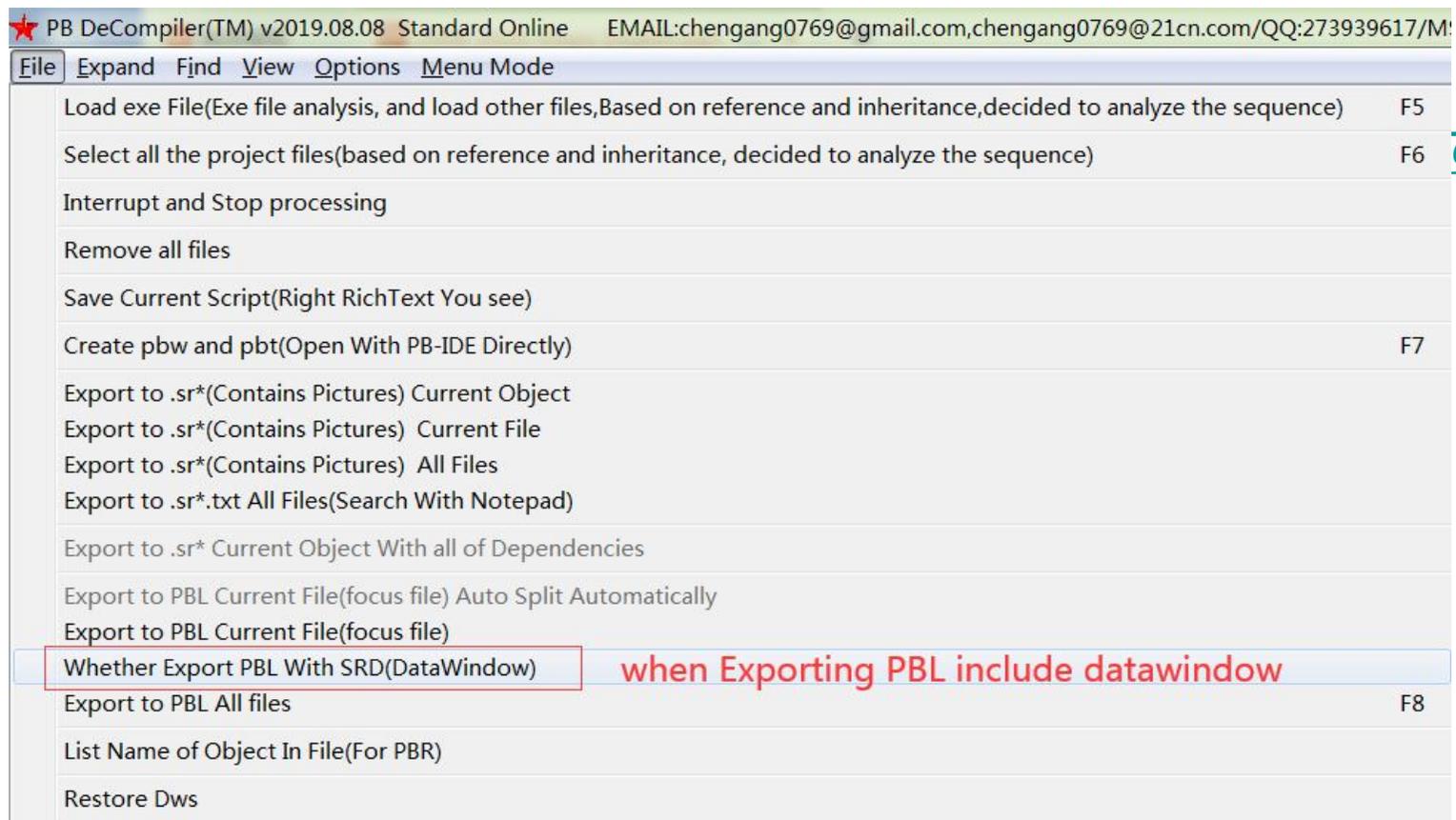
File Expand Find View Options Menu Mode

cttmis.exe	[FileID: 0/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]

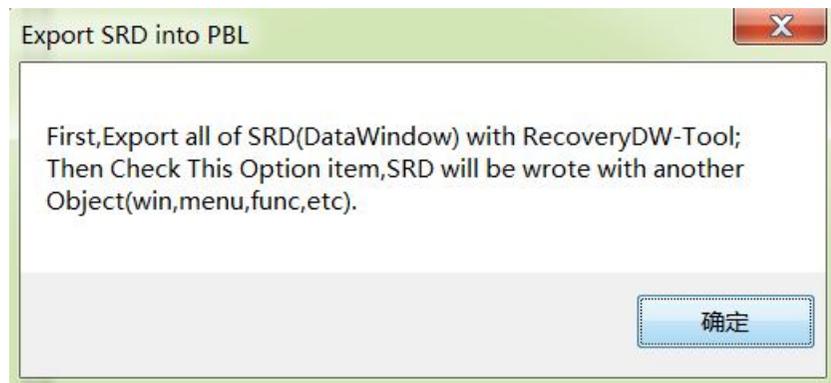
pbw and pbt for PB8 or later, you can directly open.
 Lower than pb8, please select apl-object from "library file manager",
 and then, specify the PBL search path(in the Properties-window of apl-object).
 Please note that version, such as the PBDs is: / / PB-IDE Year and Patch: 2008.08.06 11.5.0.2506
 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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★ 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

Load exe File(Exe file analysis, and load other files,Based on reference and inheritance,decided to analyze the sequence)	F5
Select all the project files(based on reference and inheritance, decided to analyze the sequence)	F6
Interrupt and Stop processing	
Remove all files	
Save Current Script(Right RichText You see)	
Create pbw and pbt(Open With PB-IDE Directly)	F7
Export to .sr*(Contains Pictures) Current Object	
Export to .sr*(Contains Pictures) Current File	
Export to .sr*(Contains Pictures) All Files	
Export to .sr*.txt All Files(Search With Notepad)	
Export to .sr* Current Object With all of Dependencies	
Export to PBL Current File(focus file) Auto Split Automatically	
Export to PBL Current File(focus file)	
<input checked="" type="checkbox"/> Whether Export PBL With SRD(DataWindow)	
Export to PBL All files	Export PBLs F8
List Name of Object In File(For PBR)	
Restore Dws	

Step5.3 pic

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The screenshot shows the PB DeCompiler interface. The top bar displays the version (v2019.08.08) and website (www.mis2erp.com). The main window is divided into a file list on the left and a console window on the right. The file list contains various .pbd files, with 'Function1.pbd' selected. The console window shows the output of the compilation process, including messages like '>>>No Object to write,skip!' and 'Now write the file: cttmis.pbl.....'. A red box highlights the console output, and a red text 'Write PBL log' is overlaid on it. Another red box at the top right of the console area contains the text 'finished'.

File Name	FileID	ObjQty	DWQty	PicQty	User
cttmis.exe	0	1	X	X	PB11.0
cttmis.pbd	1	1	X	X	PB11.0
Function1.pbd	2	49	X	X	PB11.0
mmenu1.pbd	3	73	X	X	PB11.0
picture1.pbd	4	2	X	2	PB11.0
picture2.pbd	5	X	X	X	PB11.0
struct1.pbd	6	9	X	X	PB11.0
uobject1.pbd	7	1	X	X	PB11.0
wacr1.pbd	8	37	X	X	PB11.0
wagent.pbd	9	15	X	X	PB11.0
wanalyse1.pbd	10	3	X	X	PB11.0
wbillitem.pbd	11	1	X	X	PB11.0
wcust1.pbd	12	4	X	X	PB11.0
wdirsale.pbd	13	6	X	X	PB11.0
wreport.pbd	14	6	X	X	PB11.0
wsales1.pbd	15	18	X	X	PB11.0
wsample.pbd	16	2	1	X	PB11.0
wstartup1.pbd	17	2	X	X	PB11.0
wsystem1.pbd	18	21	X	X	PB11.0
wsystem2.pbd	19	37	X	X	PB11.0
wupfront1.pbd	20	12	X	X	PB11.0
cstreport.pbd	21	11	11	X	PB11.0
dacr1.pbd	22	131	131	X	PB11.0
dagent1.pbd	23	22	22	X	PB11.0
danalyse1.pbd	24	5	5	X	PB11.0

```
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_configodbc.fun.....Binary
  Object: f_configodbc.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
```

finished

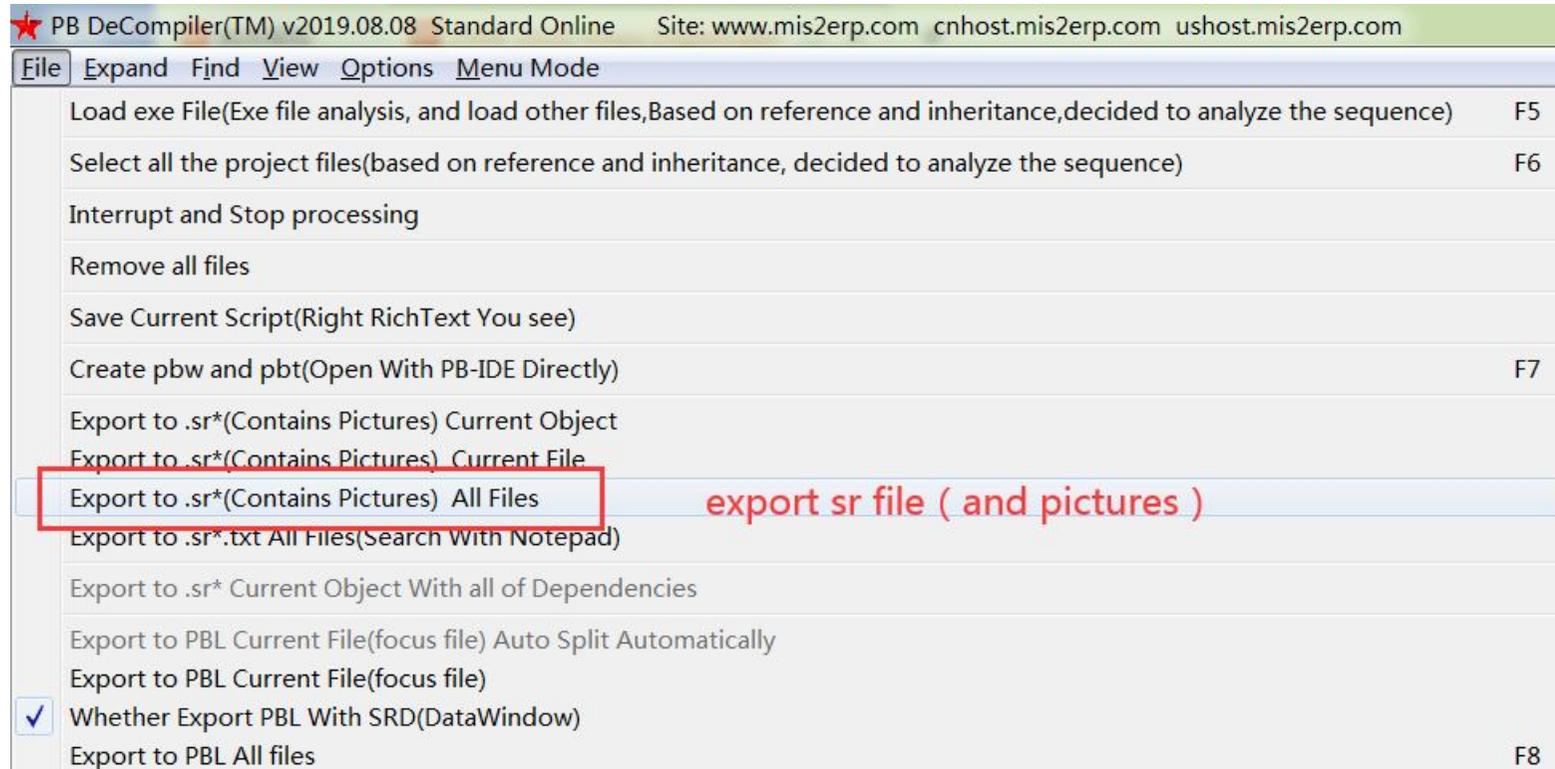
Finish writing all files.

Write PBL log

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

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]

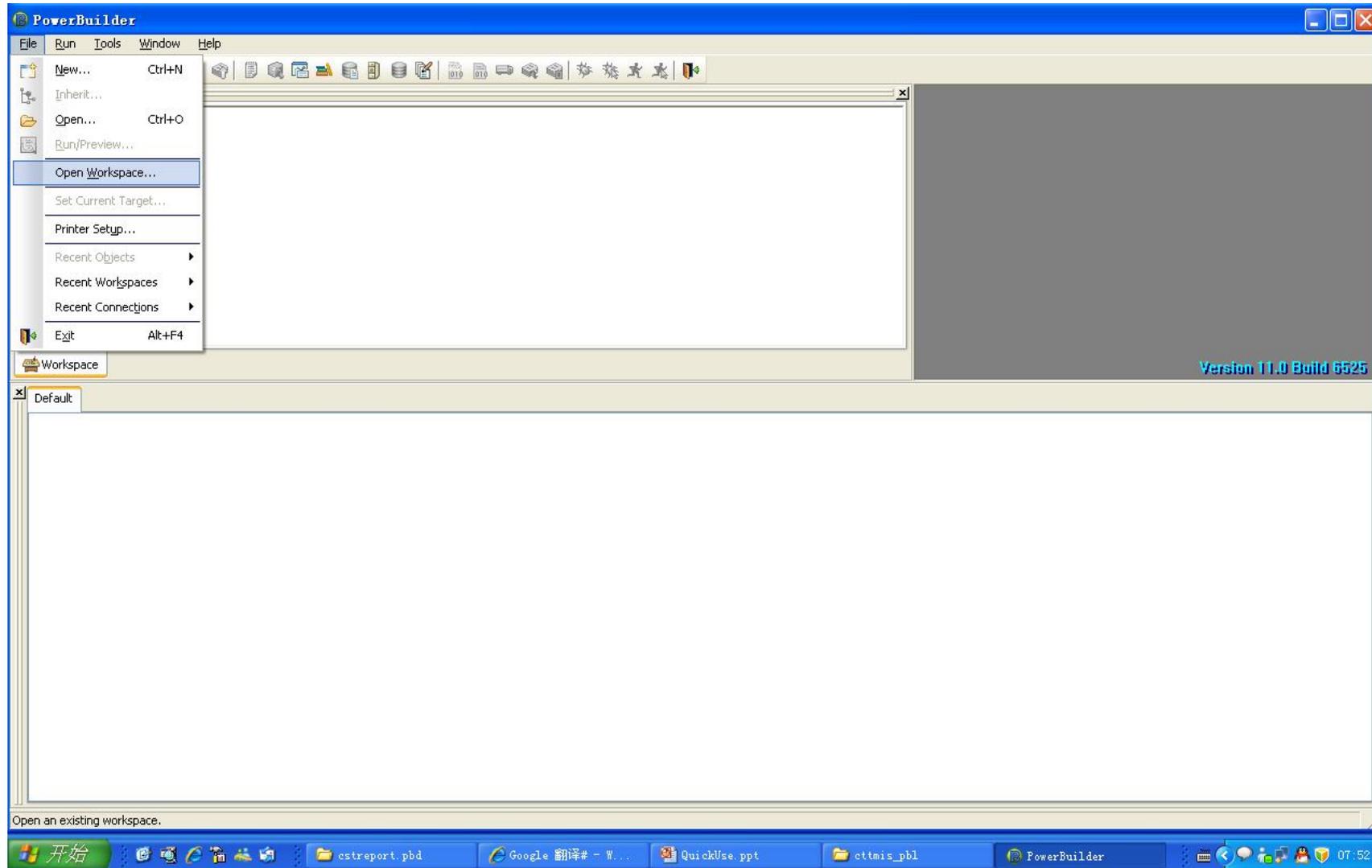
Finish writing all files.

cttmis.exe
cttmis.pbd
 cttmis.apl
function1.pbd
 dw_err_msg.fun
 f_blobtofile.fun
 f_configdbc.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

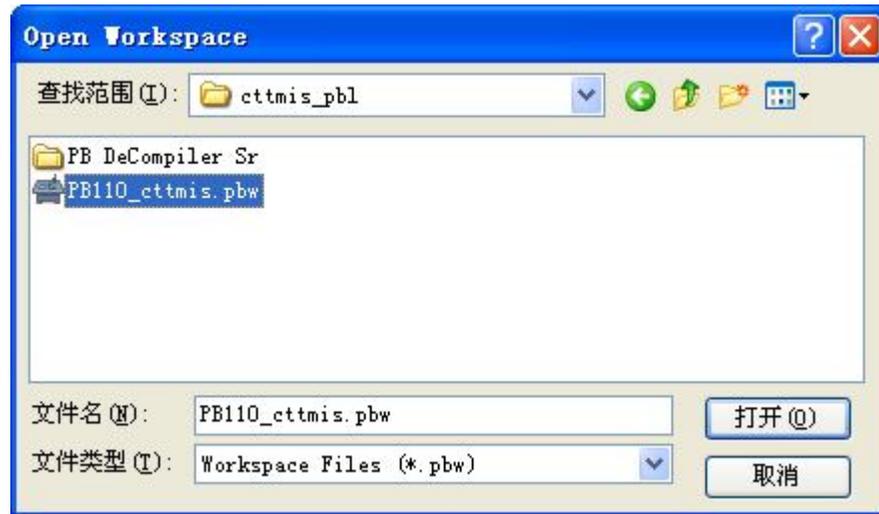
Step6.1 In Pb, open your new project, On the menu: File->open WorkSpace

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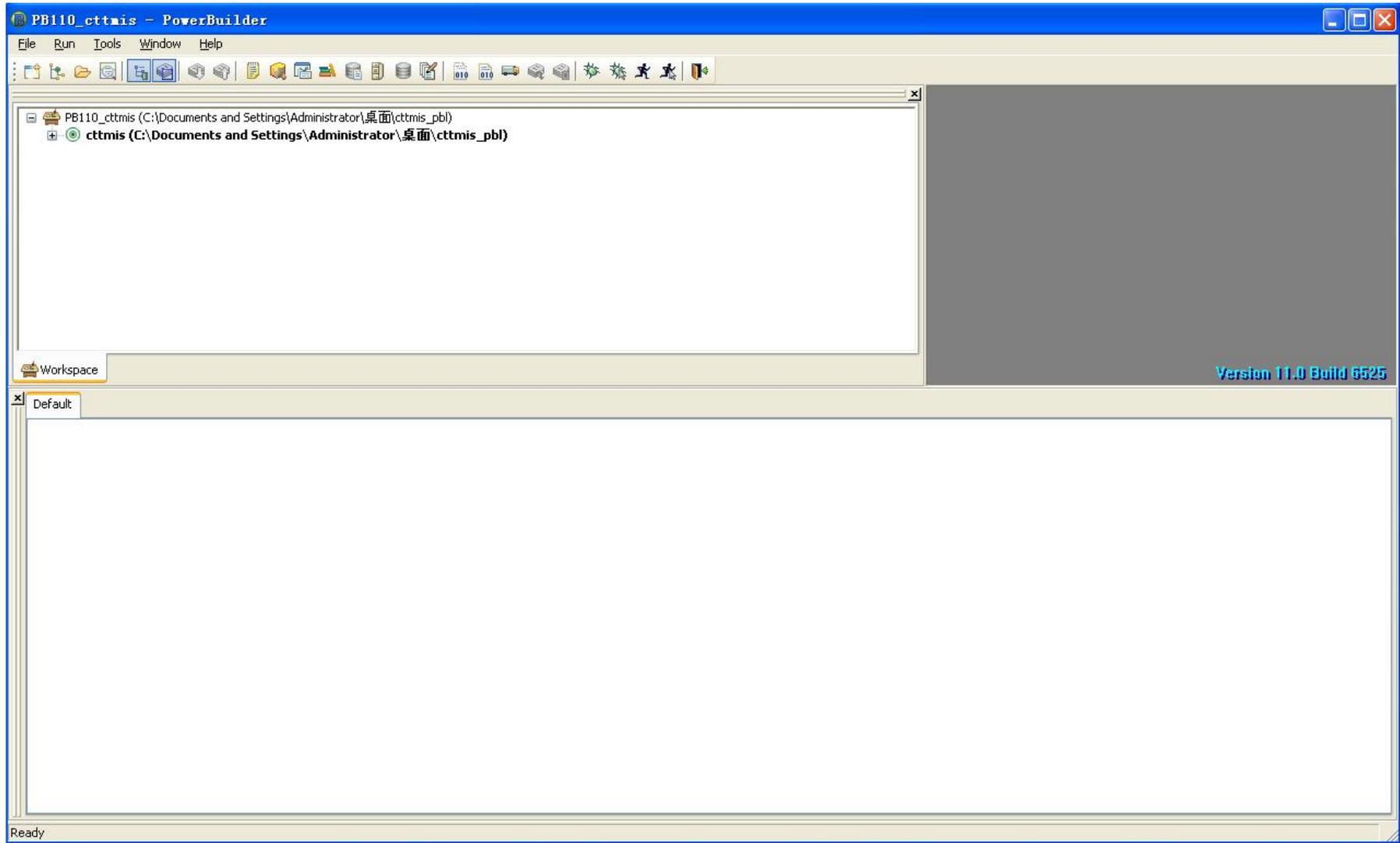
Step6.1 pic

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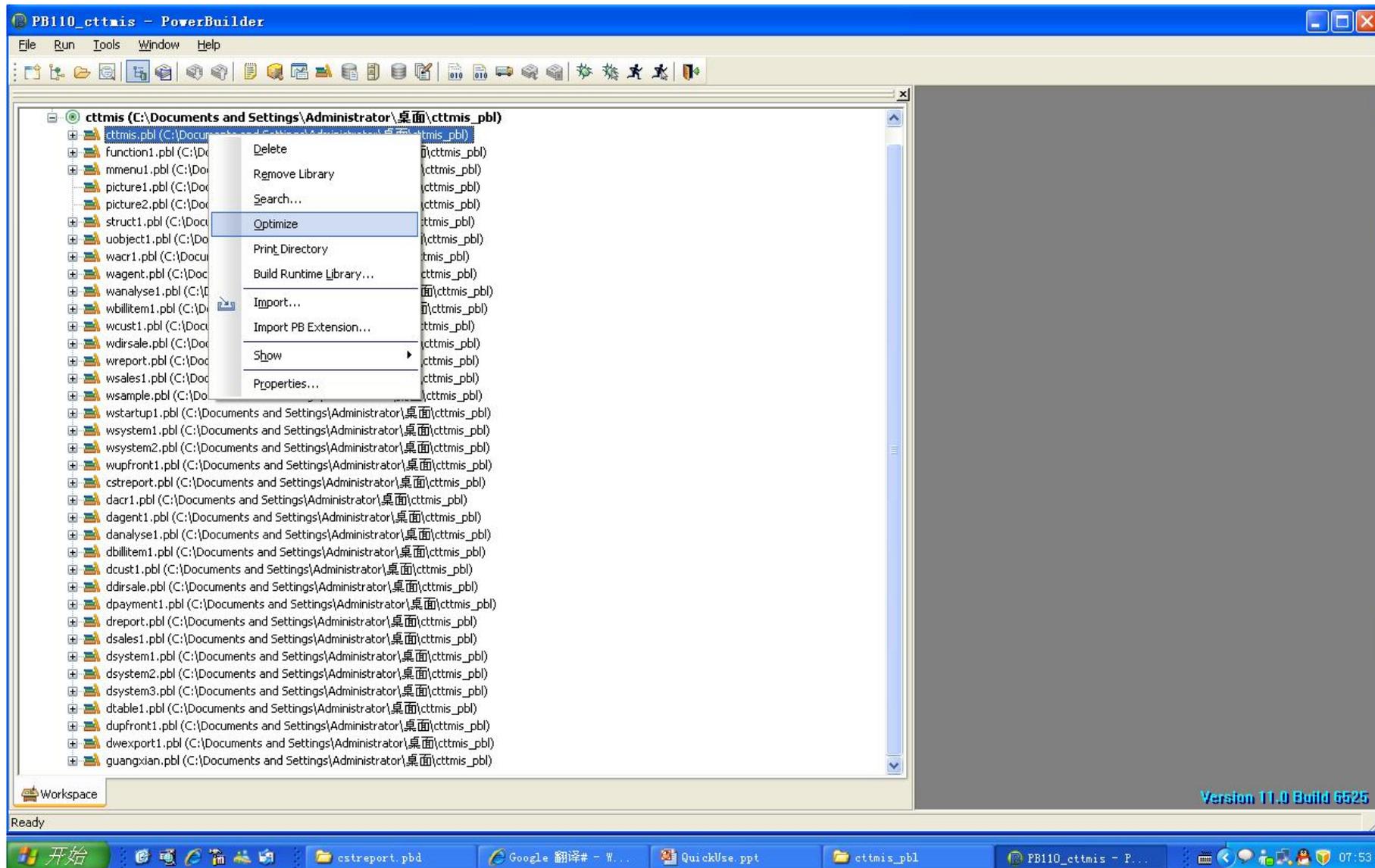
Step6.1 pic

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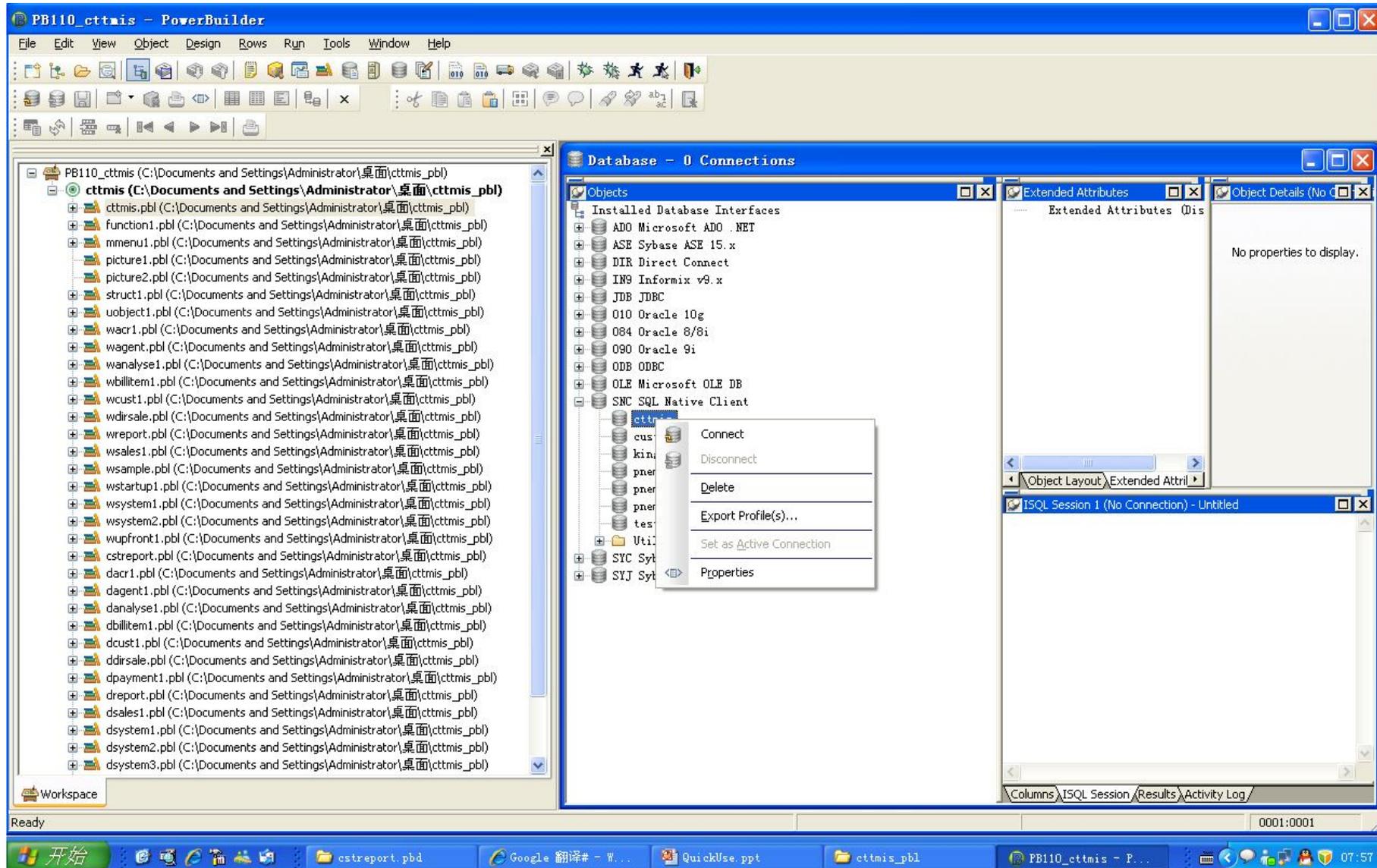
Step6.2 Optimize each one pbl

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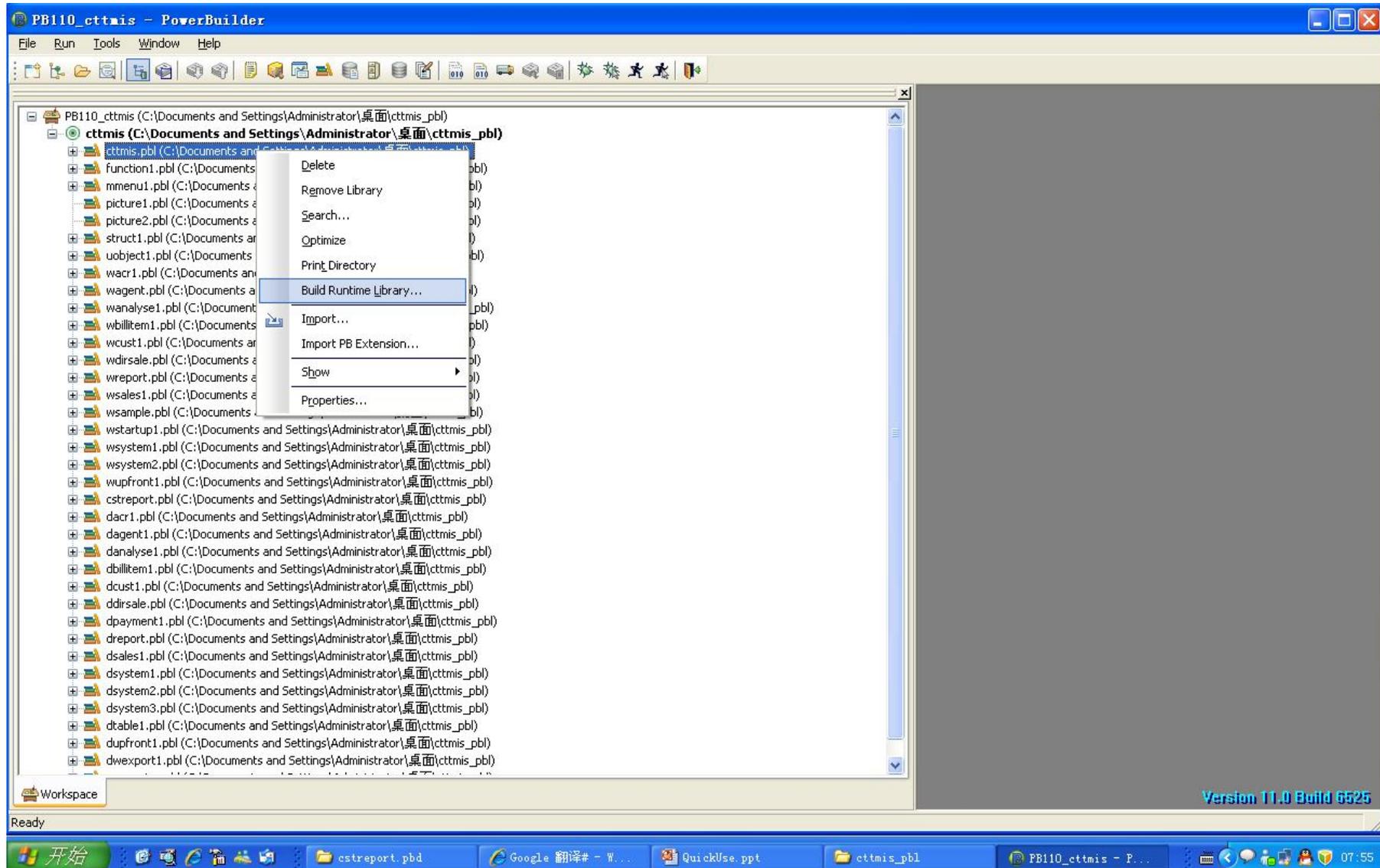
Step6.3 In DataBase painter, Build and connect to a DB.
Can be the original or any one.

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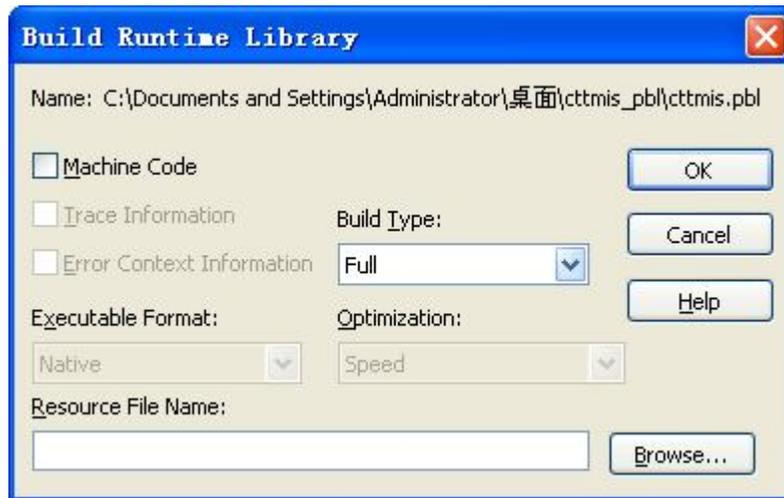
Step6.4 Compile any PBL file. full compile mode. On Right-Button-Menu:
Build Runtime Library.

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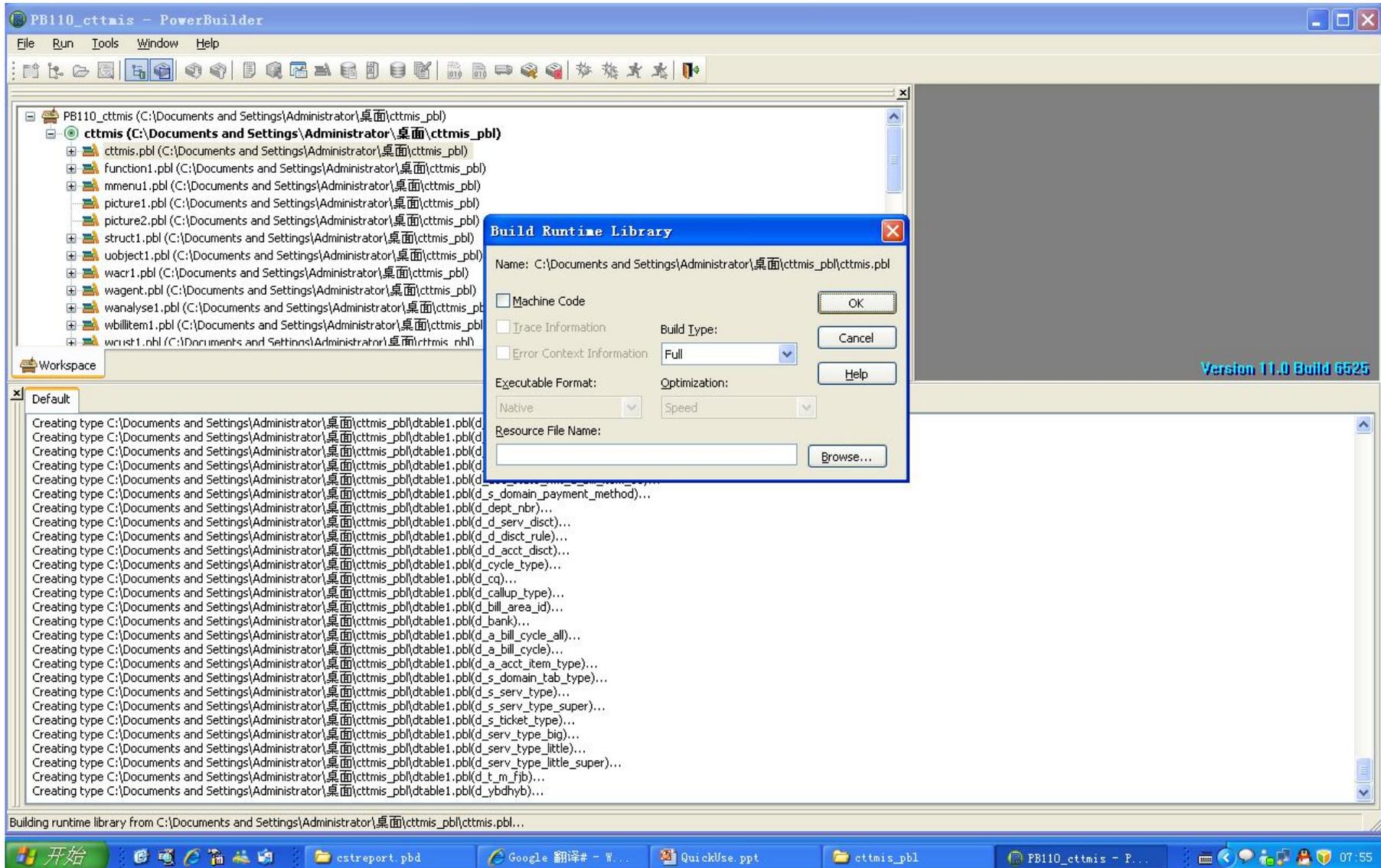
Step6.4 pic

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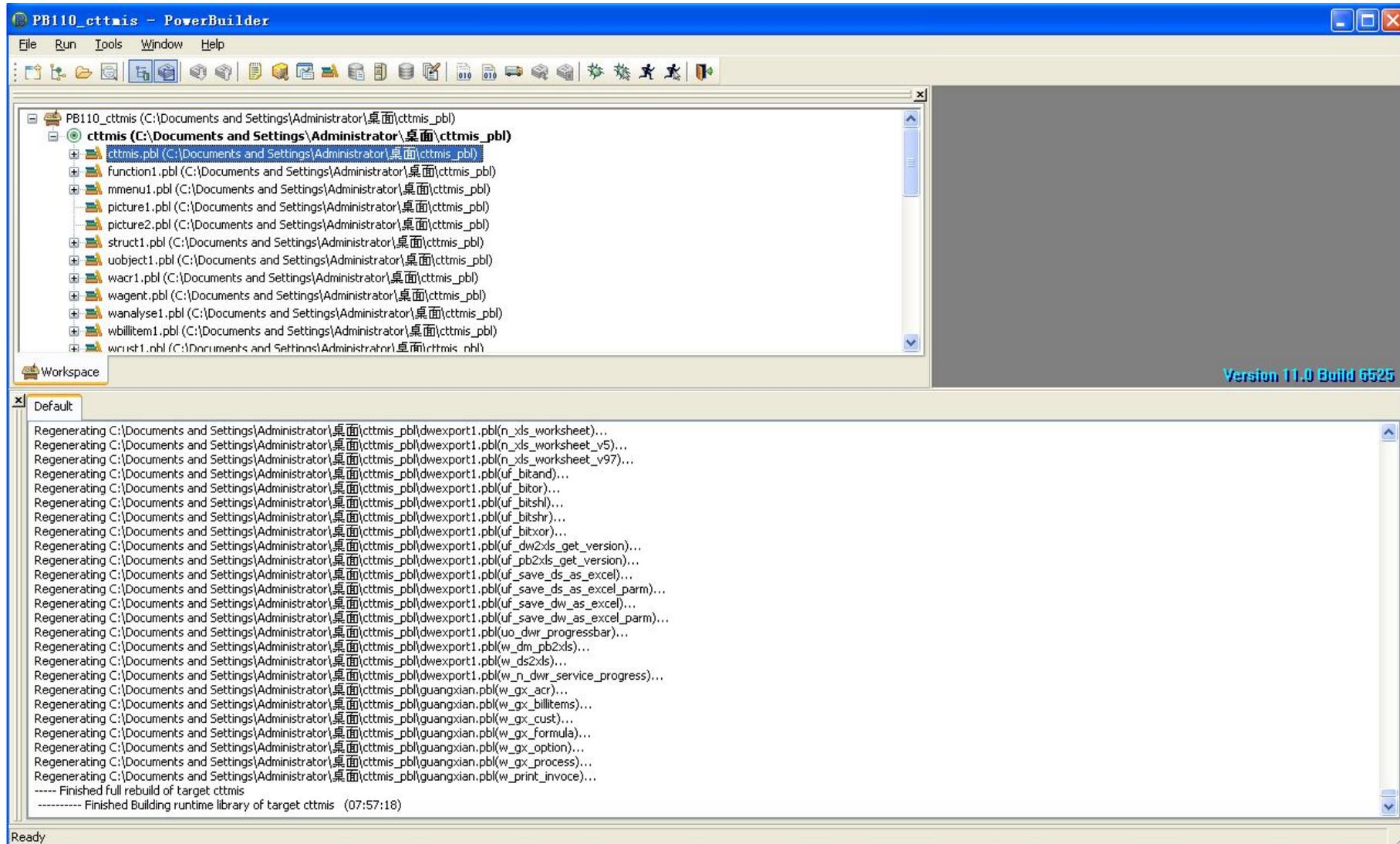
Step6.4 pic

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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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The screenshot displays the PowerBuilder IDE interface. On the left, a project tree shows the file structure for 'function1.pbl'. The main window shows the object code for the 'f_dwfilter' function. The function signature is: `f_dwfilter (ref datawindow thisdw, readonly dwobject dwobj) returns integer (cttmis)`. The code is as follows:

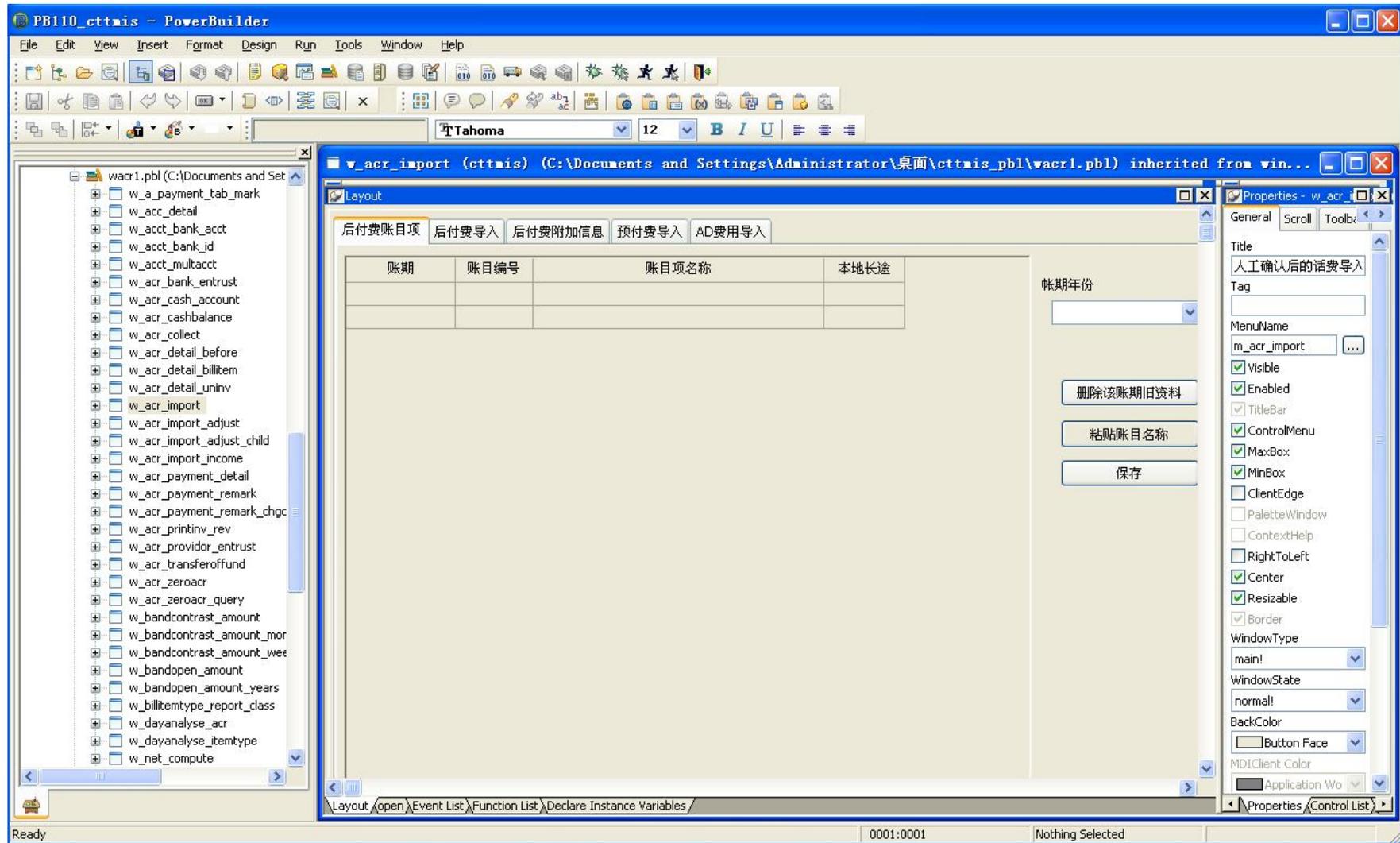
```
/*001*/ long rows
/*002*/ string dwclass = ""
/*003*/
/*004*/ rows = thisdw.rowcount()
/*005*/
/*006*/ if rows < 1 then return (-1)
/*007*/
/*008*/ open(w_dw_filter)
/*009*/ dwclass = string(thisdw.classname())
/*010*/ w_dw_filter.dw_1.dataobject = dwclass
/*011*/ thisdw.rowscopy(1,rows,primary!,w_dw_filter.dw_1,1,primary!)
/*012*/
/*013*/ return 1
```

- 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.

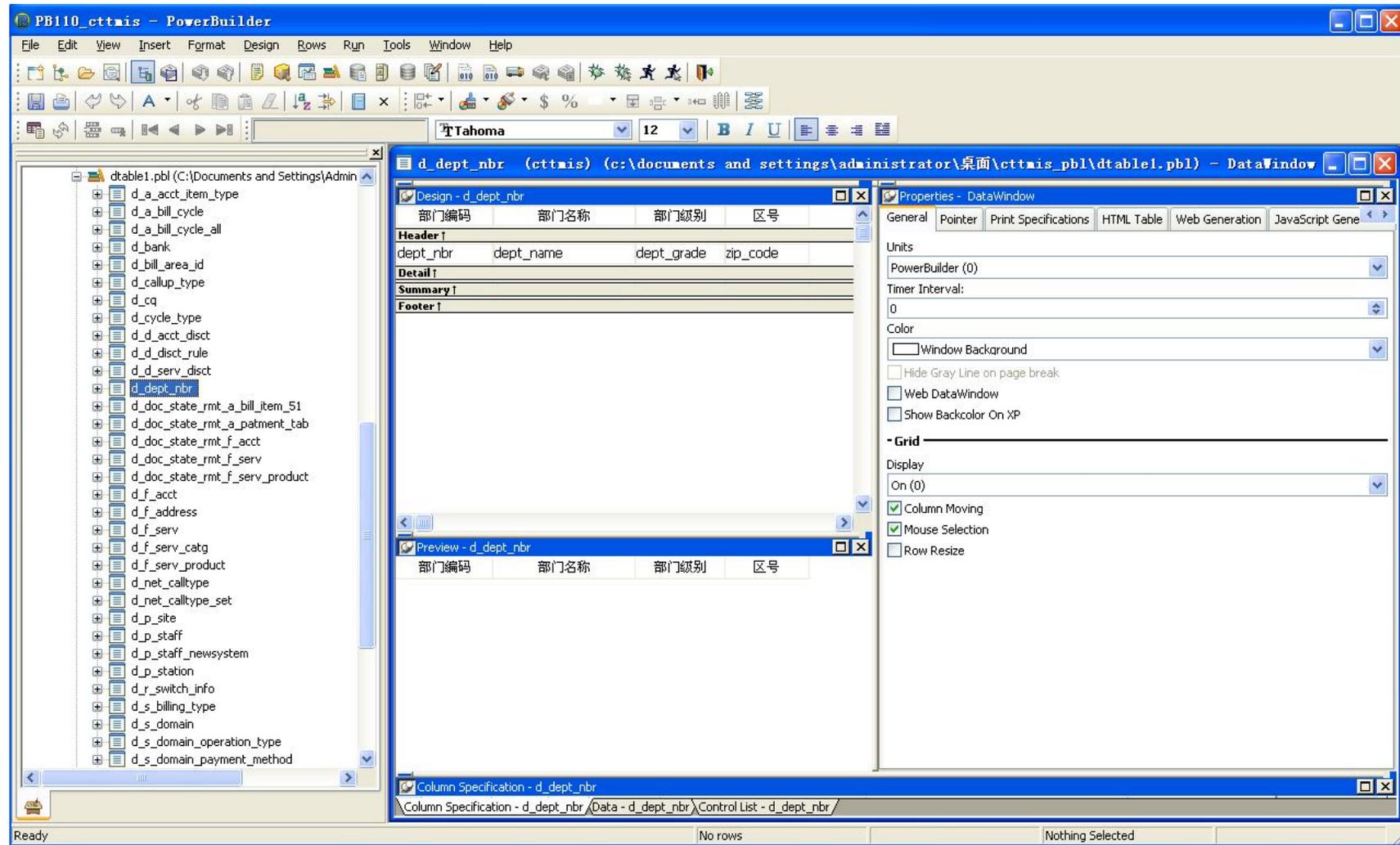
Step6.5 pic

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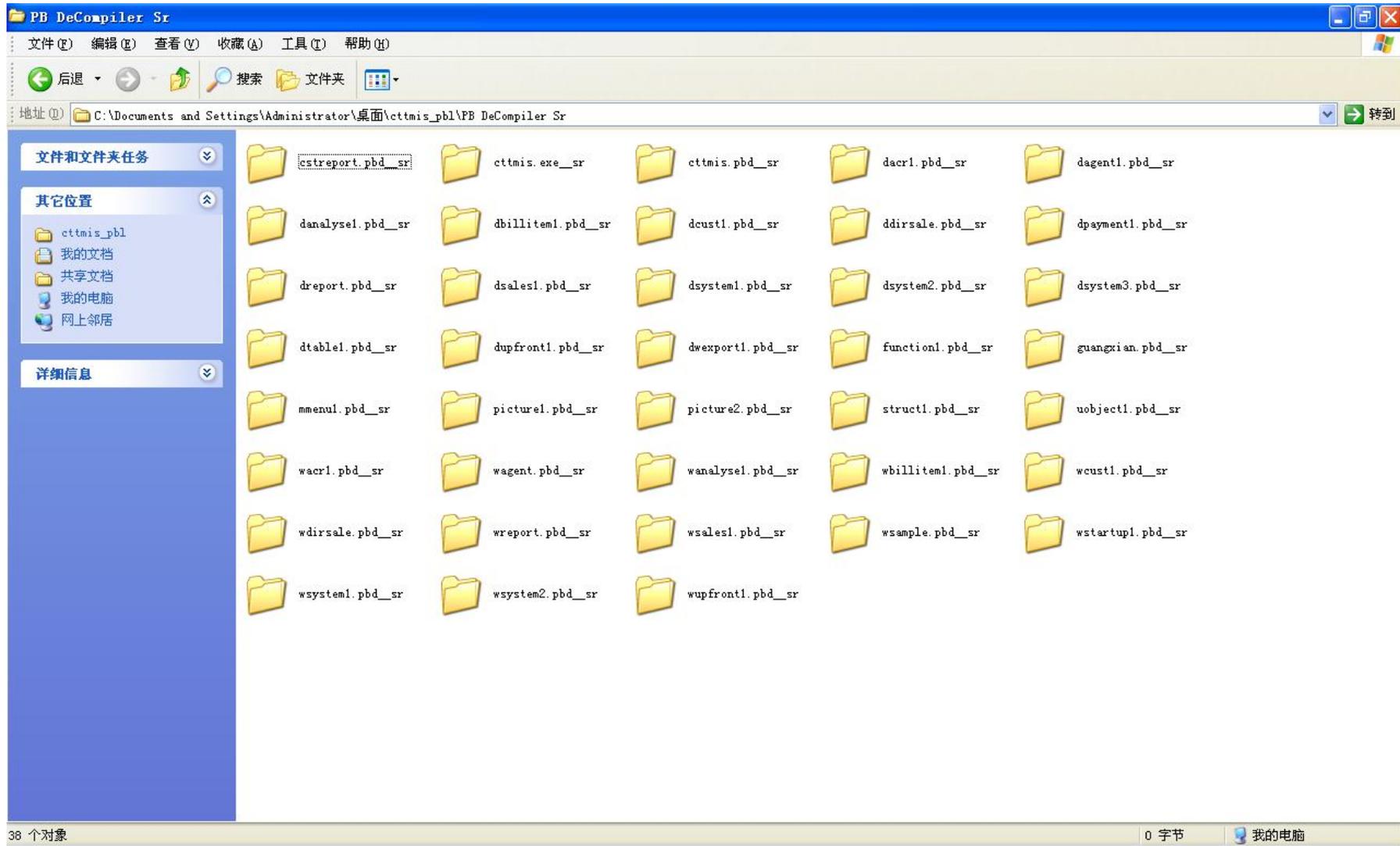
Step6.5 pic

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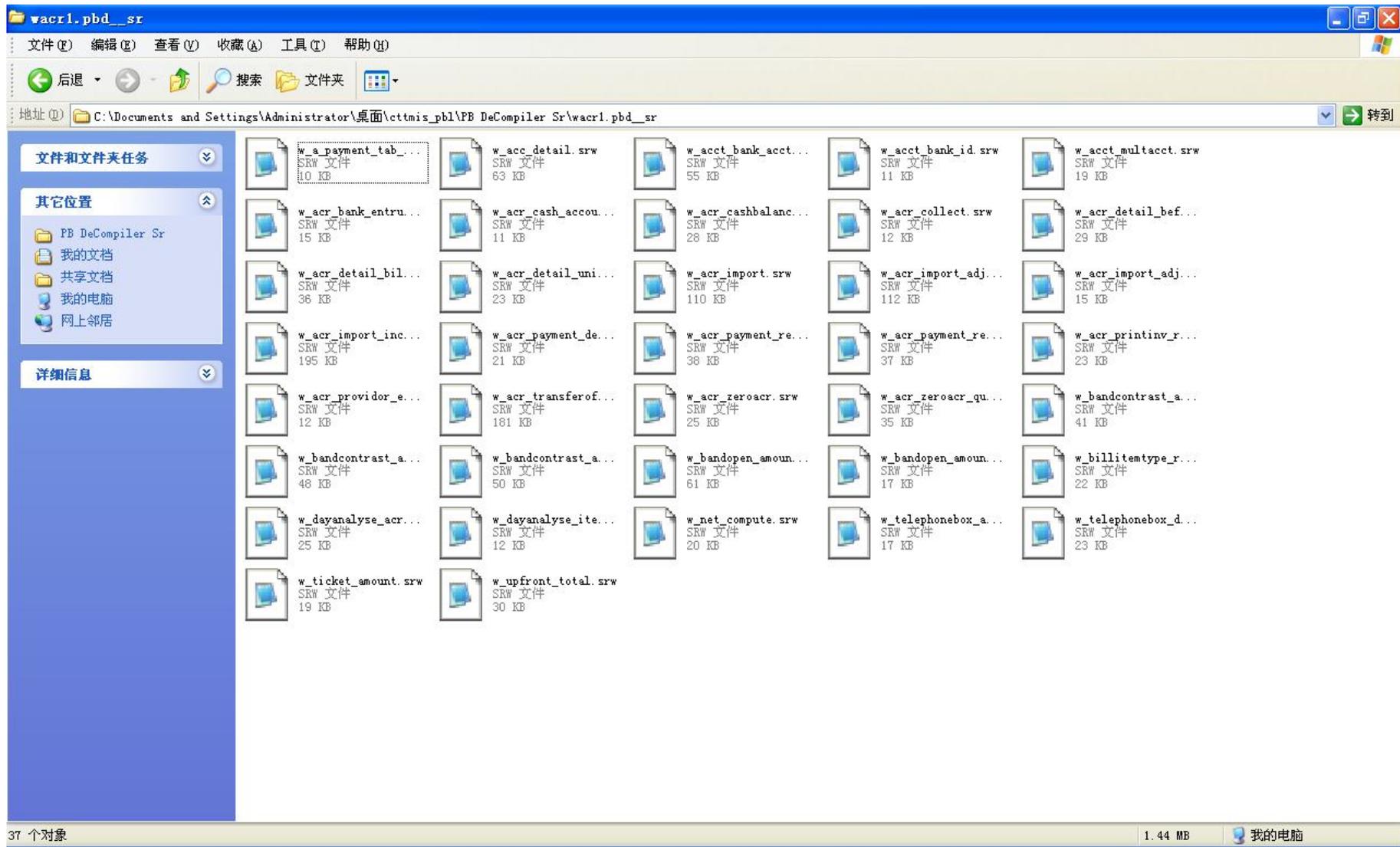
Step7.1 See Source. (sr files)

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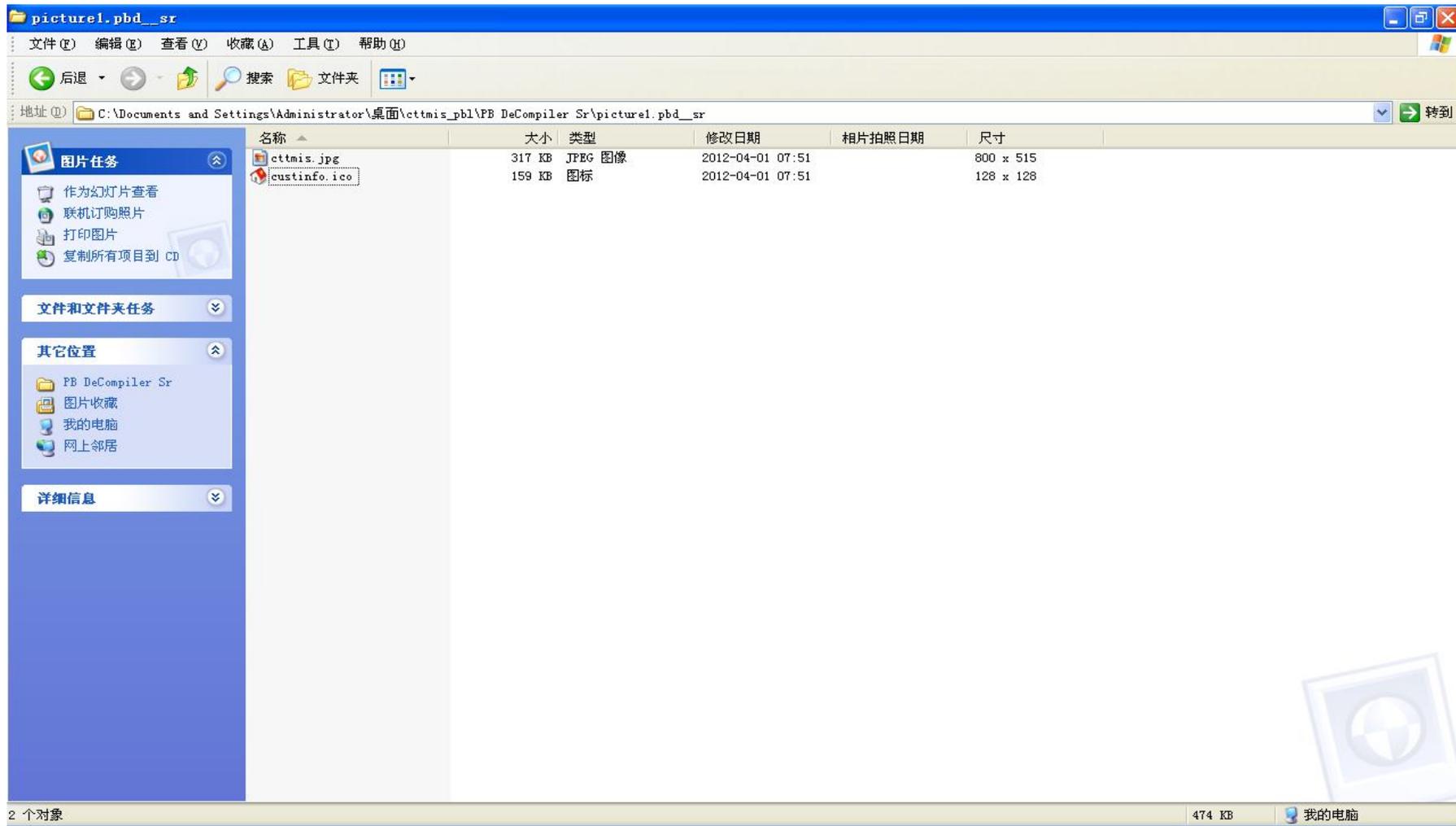
Step7.1 pic

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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)

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- Thank you, have any need please contact me.

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