



How to install Excel XPS macro on macOS Excel 2016



<https://youtu.be/geoulV1kGx8>

hideki

Ver. 8.42

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Rev. 24 Jun. 2019

Installation of macro on macOS

- The process is the same as that in Windows version except making the database folder.
 - Personal macro workbook
 - Solver add-in and reference in VBE
 - Shortcut key for cmd + opt + “e”
 - Database folder in working space “MyExcelFolder”

The code does not work perfectly yet on macOS.



Sign in



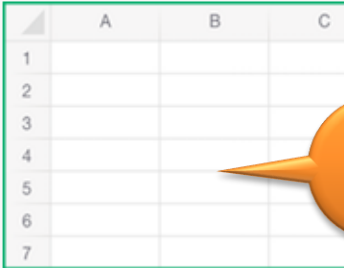
New



Recent



Open



Blank Workbook



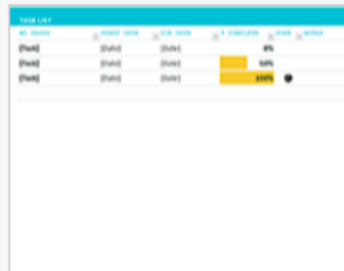
Welcome to Excel



Make a List



Total a List



Track My Tasks



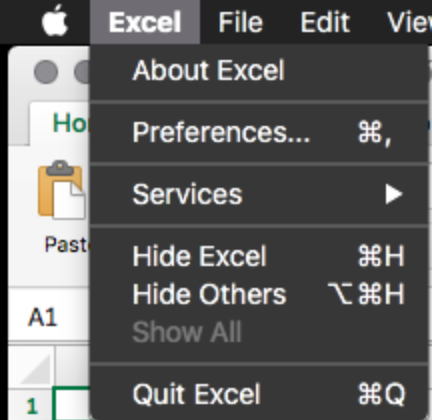
Manage My Money



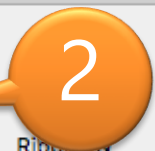
2

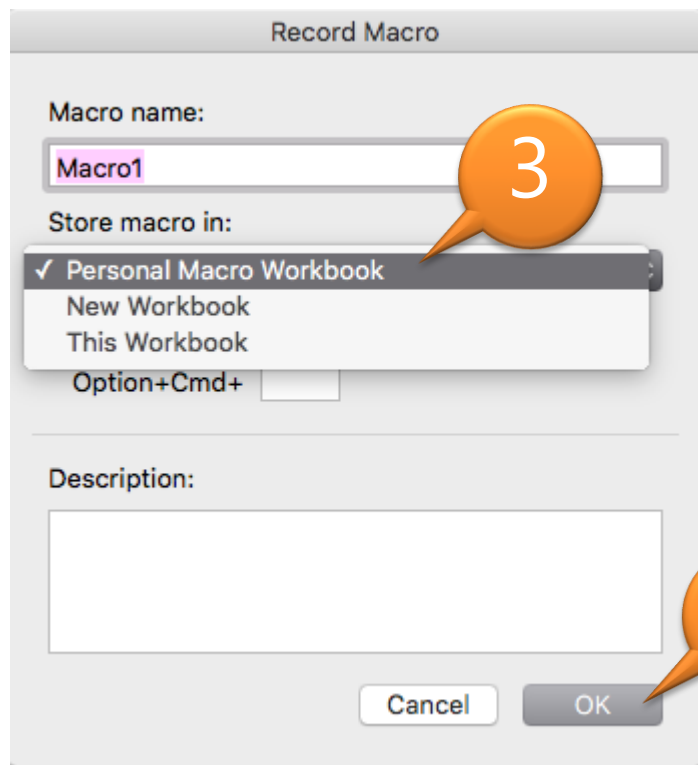
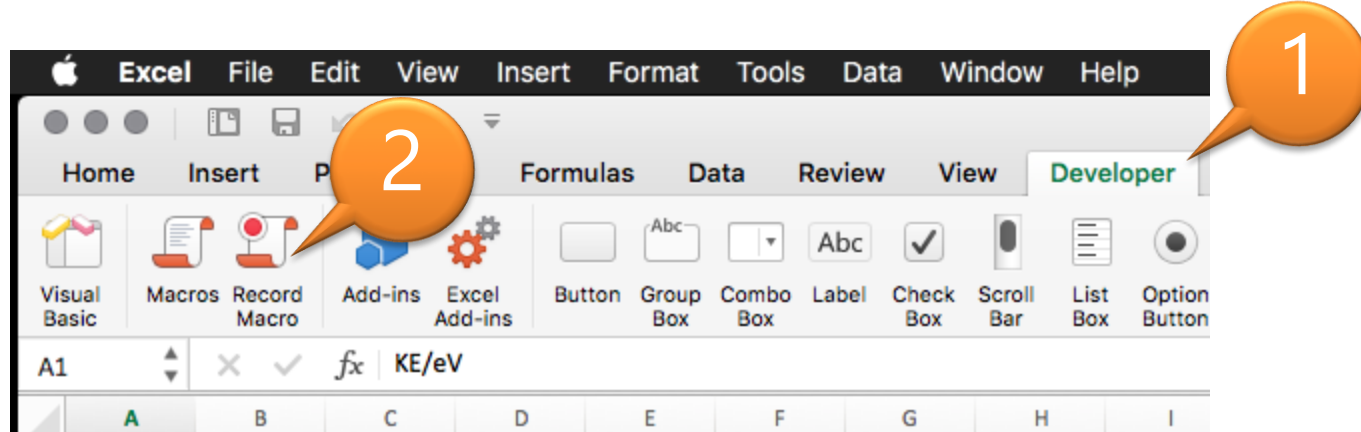
Cancel

Create

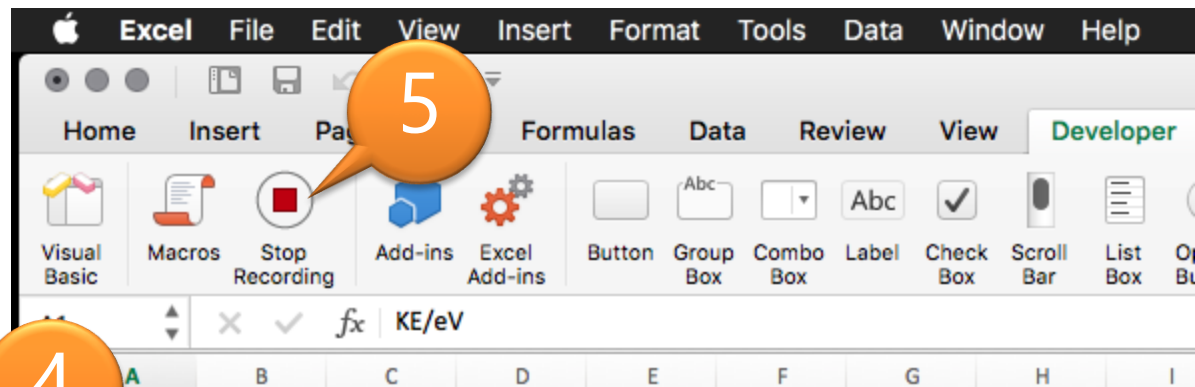


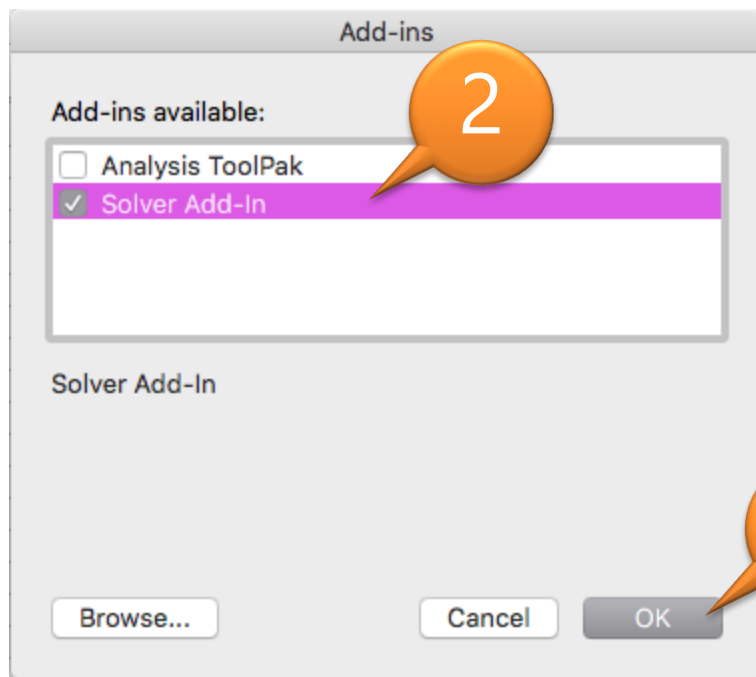
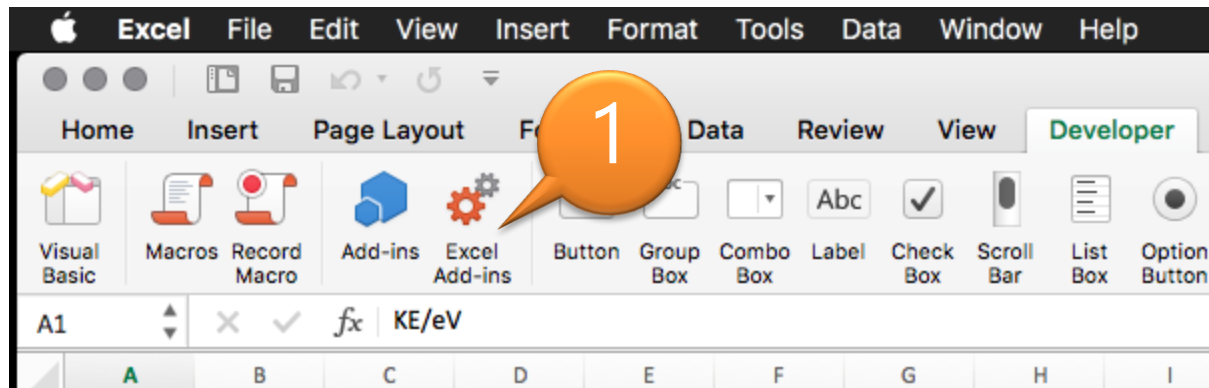
Show the Developer tab.



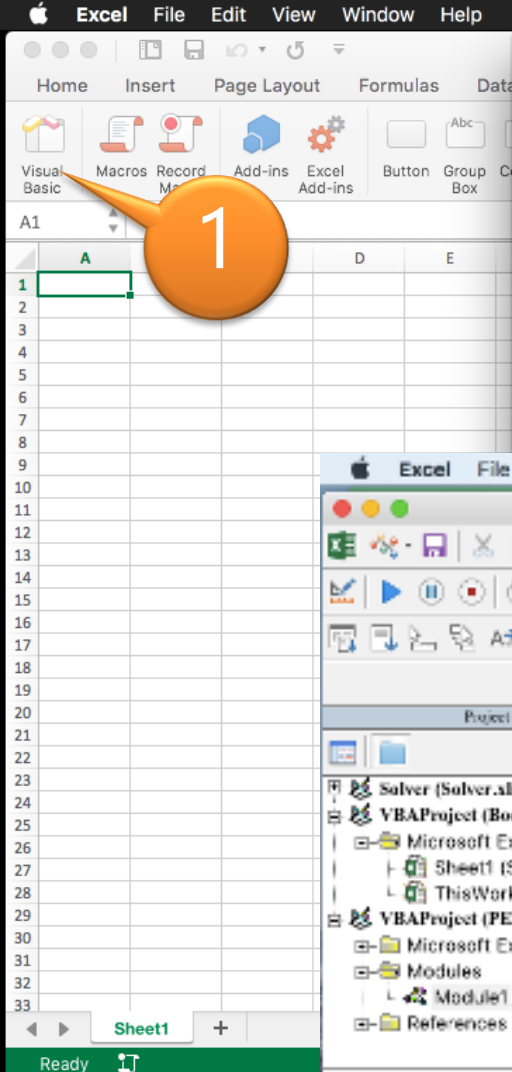


Create the personal macro workbook

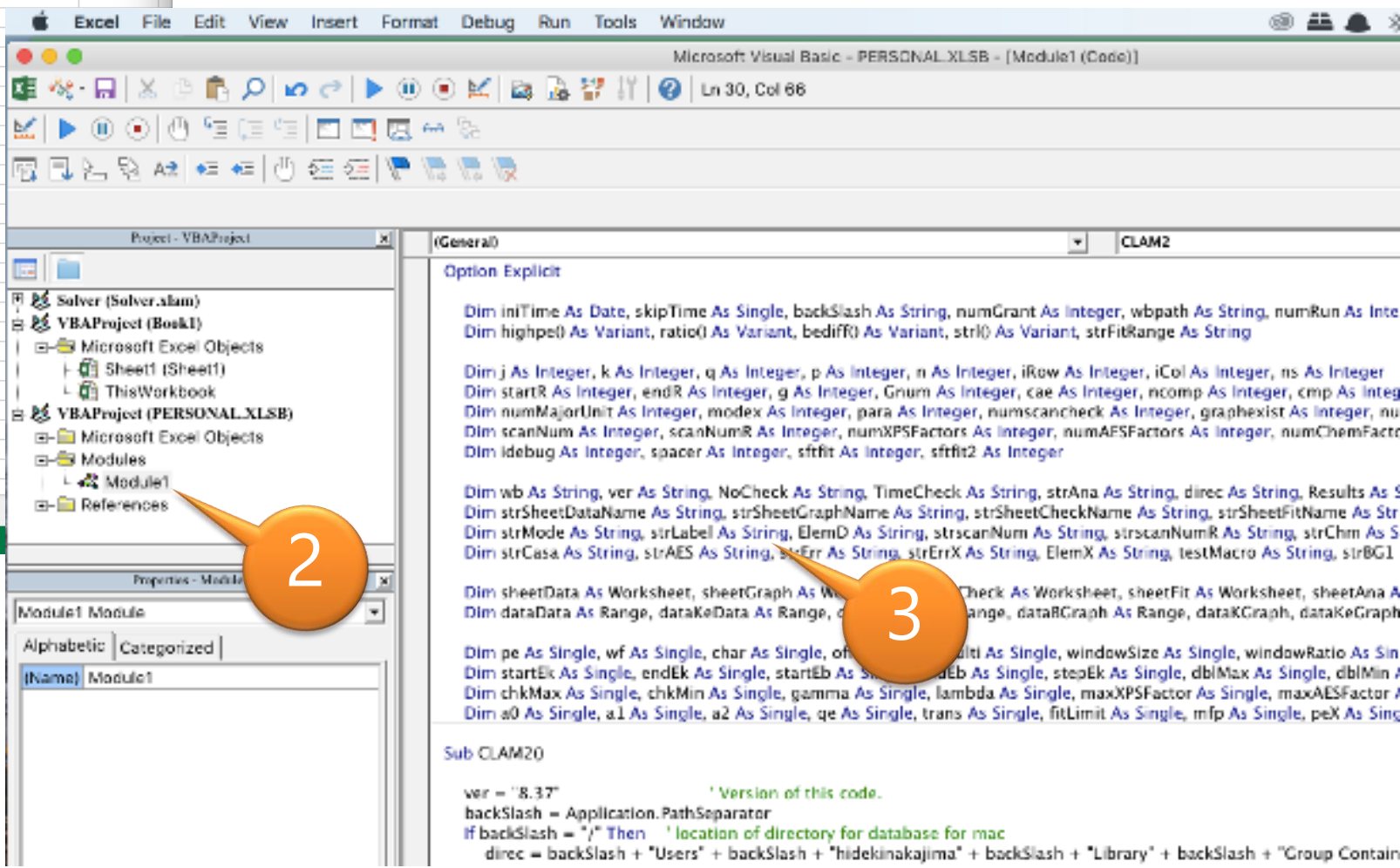




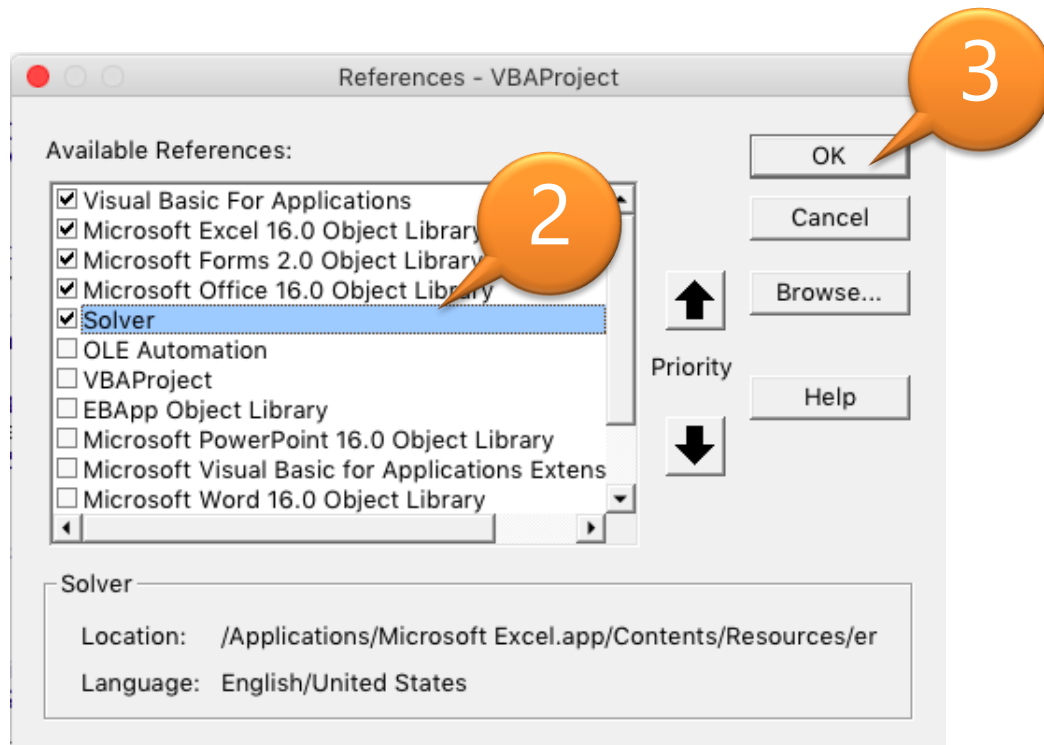
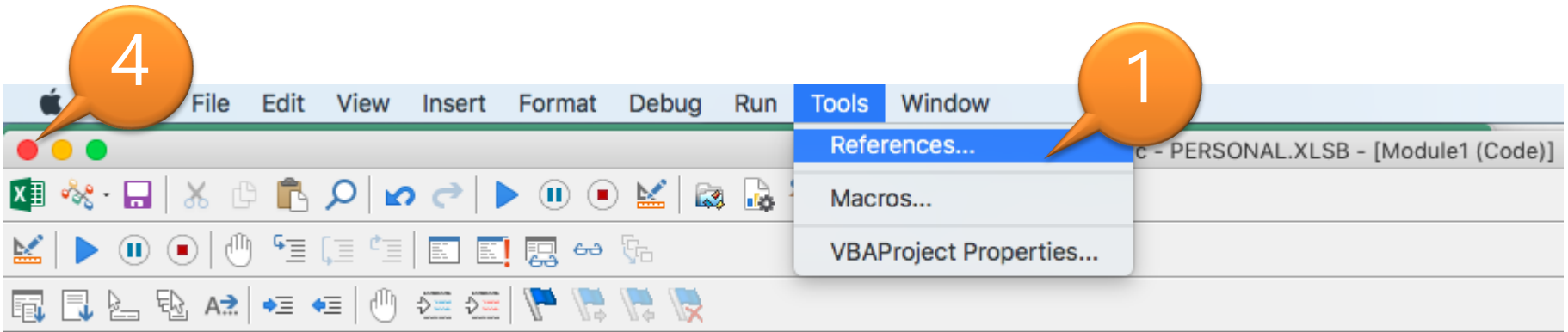
Activate the Solver Add-In

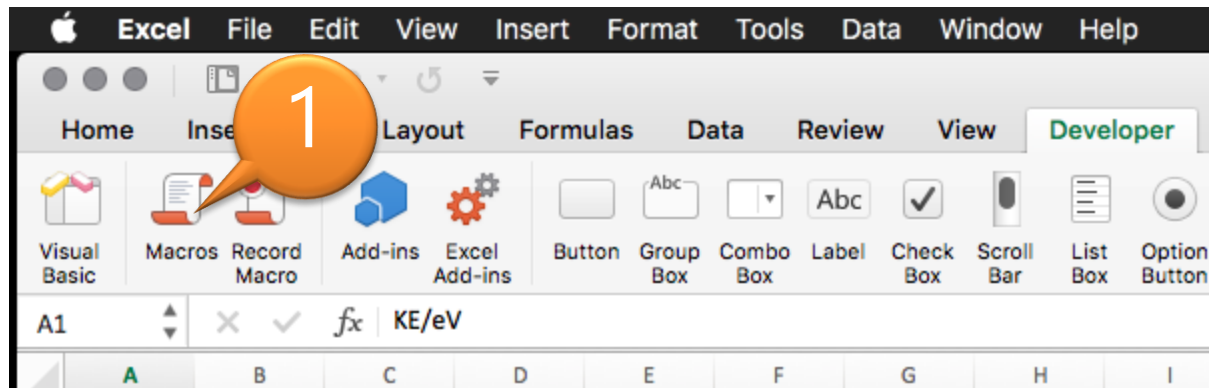


Install the VBA code in the following way;
Switch Visual Basic Editor mode, double-click to open VBAProject (PERSONAL.XLSB)– Module - Module1, and paste the code from LoadCLAMvXXX_std.vb opened with test editor.

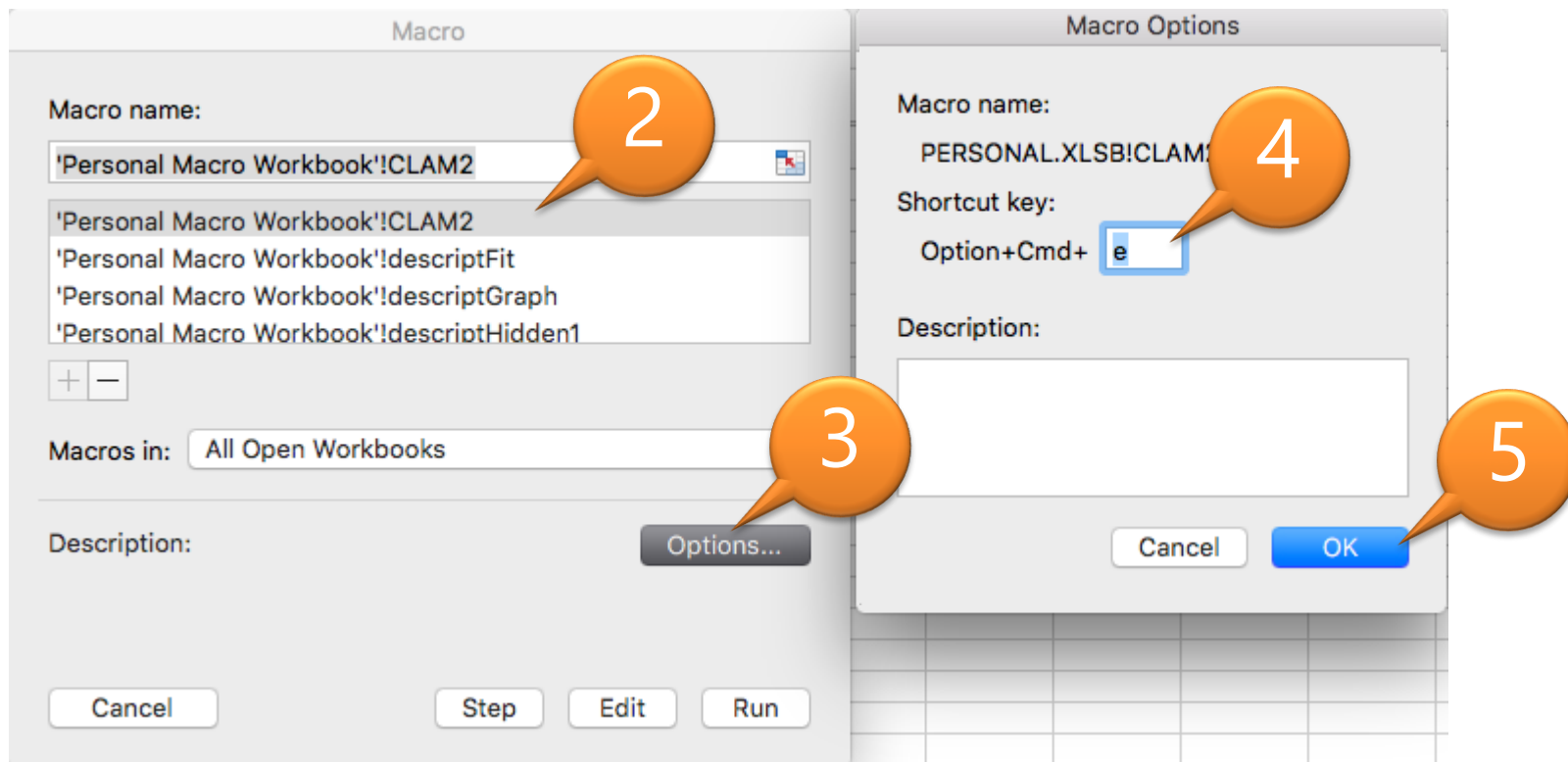


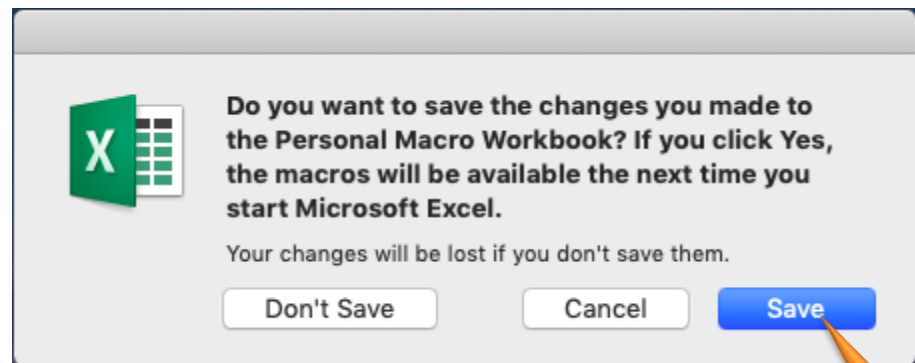
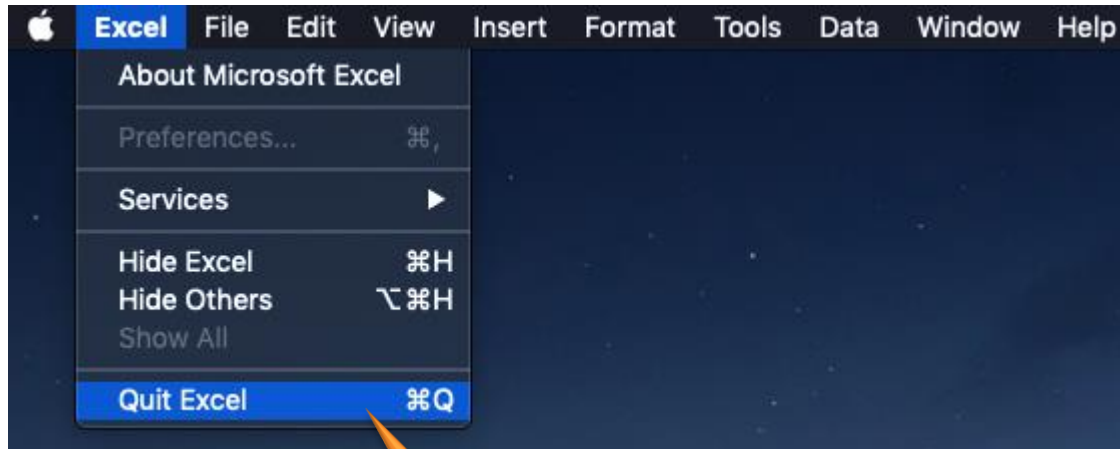
Activate Solver library from menu accessible in the Visual Basic Editor mode.





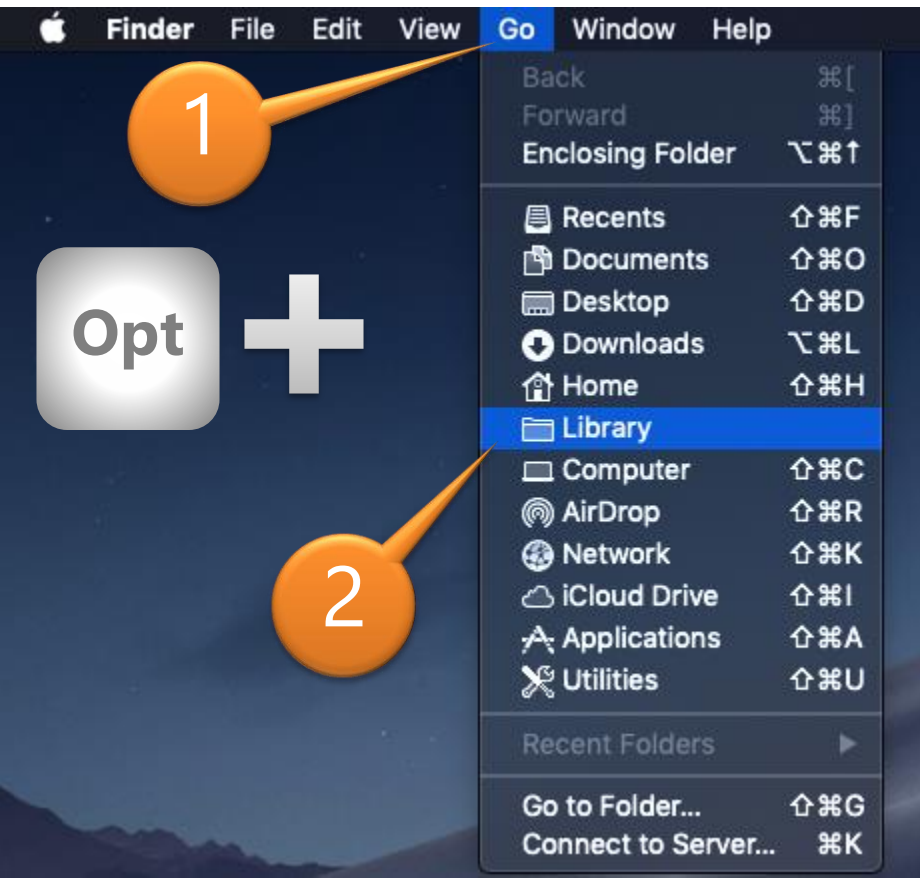
Assign the shortcut key “e”





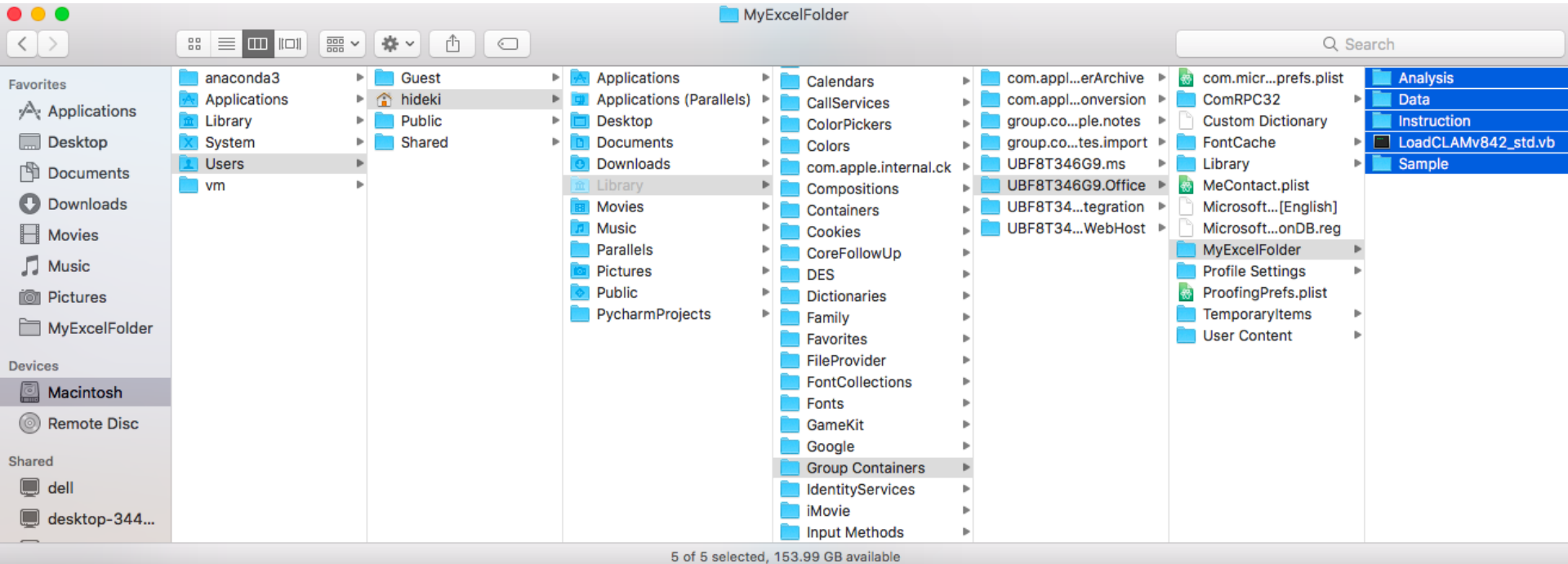
So far, the procedure is the same as that in Windows.
Next slide shows how to create the folder for database on mac.

1. Open a Finder Window
2. Hold the **Alt (Option)** key when you press on **Go** in the Finder menu bar
3. Click on **Library**
4. Open the **Group Containers** folder
5. Open the **UBF8T346G9.Office** folder
6. Create a Folder inside this folder named **MyExcelFolder** for example
7. Select this folder

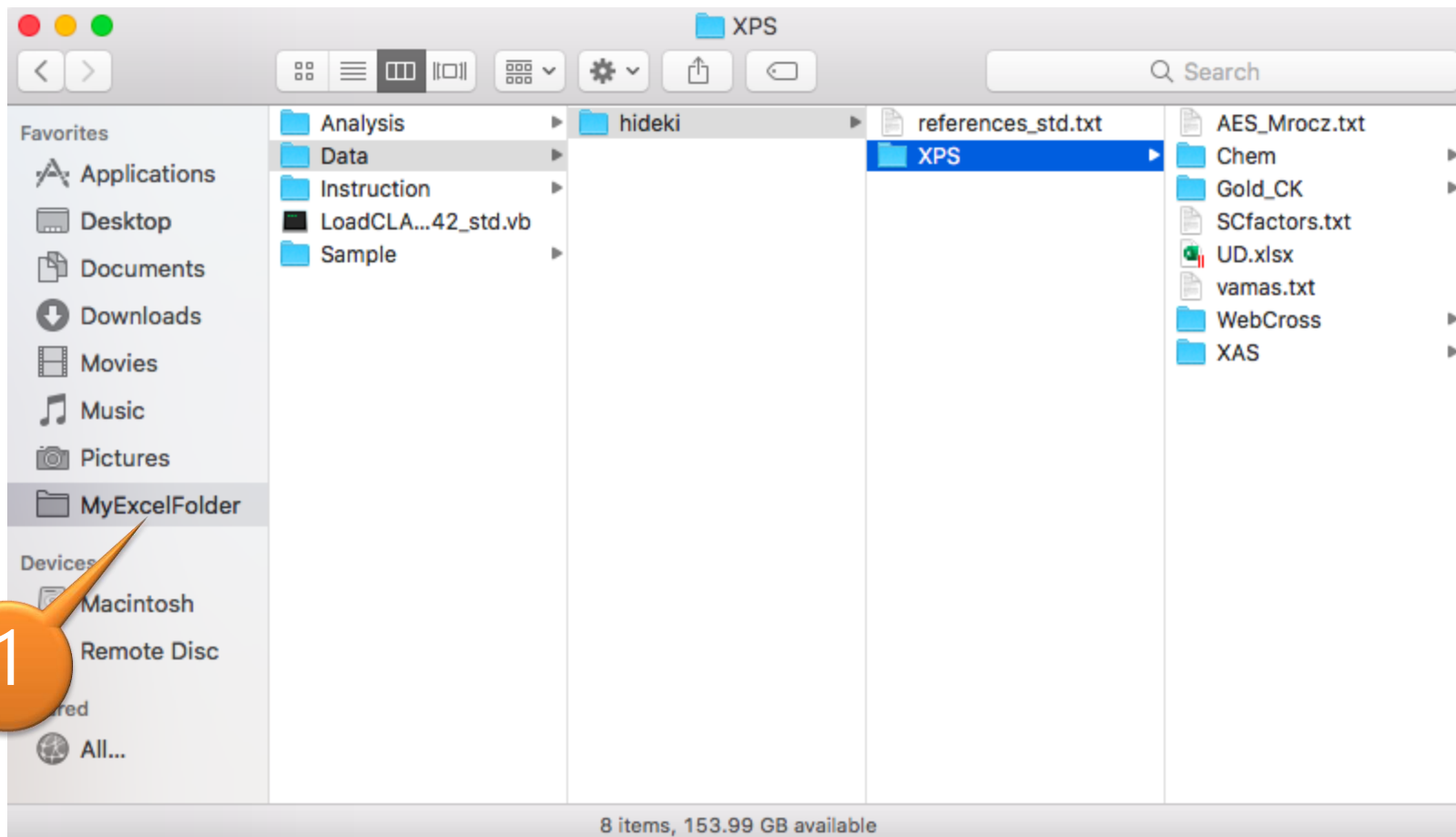


Library folder can be accessed from Go with Option key, otherwise no Library menu appears as shown in Fig.

All unzip files and folders should be placed in
Library/Group Containers/UBF8T346G9.Office/MyExcelFolder/



Drag & drop **MyExcelFolder** into Favorites for next access.



Open the sample file with Excel and use shortcut key.

The screenshot displays an Excel spreadsheet titled "Au4f_sample.xlsx". The spreadsheet contains a table of data with columns for "KE/eV" and "Intensity (arb. units)". The data is organized into a table with columns for "KE/eV", "Intensity (arb. units)", and "Binding energy (eV)". The table includes data for Au4f5/2 and Au4f7/2 peaks. The graphs show the intensity of the Au4f5/2 and Au4f7/2 peaks as a function of binding energy (eV). The graphs are labeled "Au4f5/2" and "Au4f7/2".

Keyboard shortcut: **Cmd + Opt + e**

Manual input mode dialog box:

Input field: 600

Buttons: Cancel, OK

Input atomic elements dialog box:

Input field: Au

Buttons: Cancel, OK

Select the worksheet "Fit_filename" and use shortcut key.

Excel Au4f_sample.xlsx

Home Insert Page Layout Formulas Data Review View Developer

Calibri (Body) 12 A A- A+ Wrap Text General Conditional Formatting Format as Table Cell Styles Insert Delete Format AutoSum Fill Clear Sort & Filter

A1 Shirley

1 Shirley BG
2 Tolerance
3 Initial A
4 Final A
5 Iteration
6
7
8
9
10
11 Solve BGS
12 Peak fit
13 # peaks
14 Solve LSM
15 Fit range
16 Start / eV 77
17 End / eV 97
18 Factors for N.Area
19 CAE 23.5
20 Grating 0
21 IMFP 0.60000002
22 a 180.253998
23 b 0.34799999
24 theta 45
25
26
27
28
29
30 BE / eV In
31 97 609
32 96.9 553
33 96.8 591

Fit_Au4f_sample Graph_Au4f_sample Au4f_sample

Ready Calculate

Intensity normalized by I_p (arb. units)

3058.98
2558.98
2058.98
1558.98
1058.98
558.98
58.98

98 96 94 92 90 88 86 84 82 80 78 76

Binding energy (eV)

1 Shirley BG
2 Tolerance 0.000001
3 Initial A 0.001
4 Final A 0.00343967
5 Iteration 10
6
7
8
9
10
11 Solve BGS 0.53381724
12 Peak fit
13 # peaks 2
14 Solve LSM 11.9149525
15 Fit range
16 Start / eV 77
17 End / eV 97
18 Factors for N.Area
19 CAE 23.5
20 Grating 0
21 IMFP 0.60000002
22 a 180.253998
23 b 0.34799999
24 theta 45
25

Name Au4f7/2 Au4f5/2
BE 83.7995939 87.3995939
KE 509.200406 505.600406
FWHM1 2.17909878 2.8510928
FWHM2
Amplitude 2725.34149 2044.00612
Shape Gauss Gauss
Option a
Option b
Option c
Form G G
beta 1 1
Amp+BG 2843.34149 2162.00612
RSF 9.57999992 7.53999996
P. Area 6333.00464 6214.49017
S. Area 661.065208 824.202945
N. Area 767.982995 961.52355
Asym
Amp. rat. (4; 3)
BE diff. [3.6]
T.I. Area 6334.61053 6216.06601
S.I. Area 661.232837 824.411942
N.I. Area 768.177736 961.767369
Corr. RSF 8.24628238 6.46317001

Intensity normalized by I_p (arb. units)

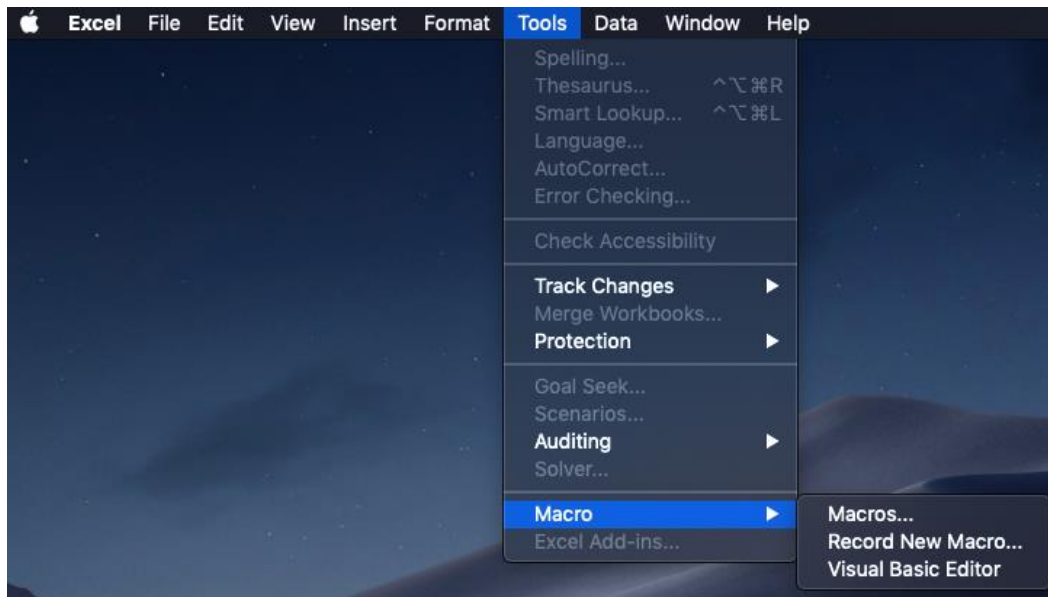
3058.98
2558.98
2058.98
1558.98
1058.98
558.98
58.98

98 96 94 92 90 88 86 84 82 80 78 76

Binding energy (eV)

Batch processing

- Excel Mac has no blank window available, then batch processing mode cannot be performed.
- However, Menu bar - Tools - Macro - Macros ... - debugAll to run batching mode without opening any text files or workbooks in **MyExcelFolder**.



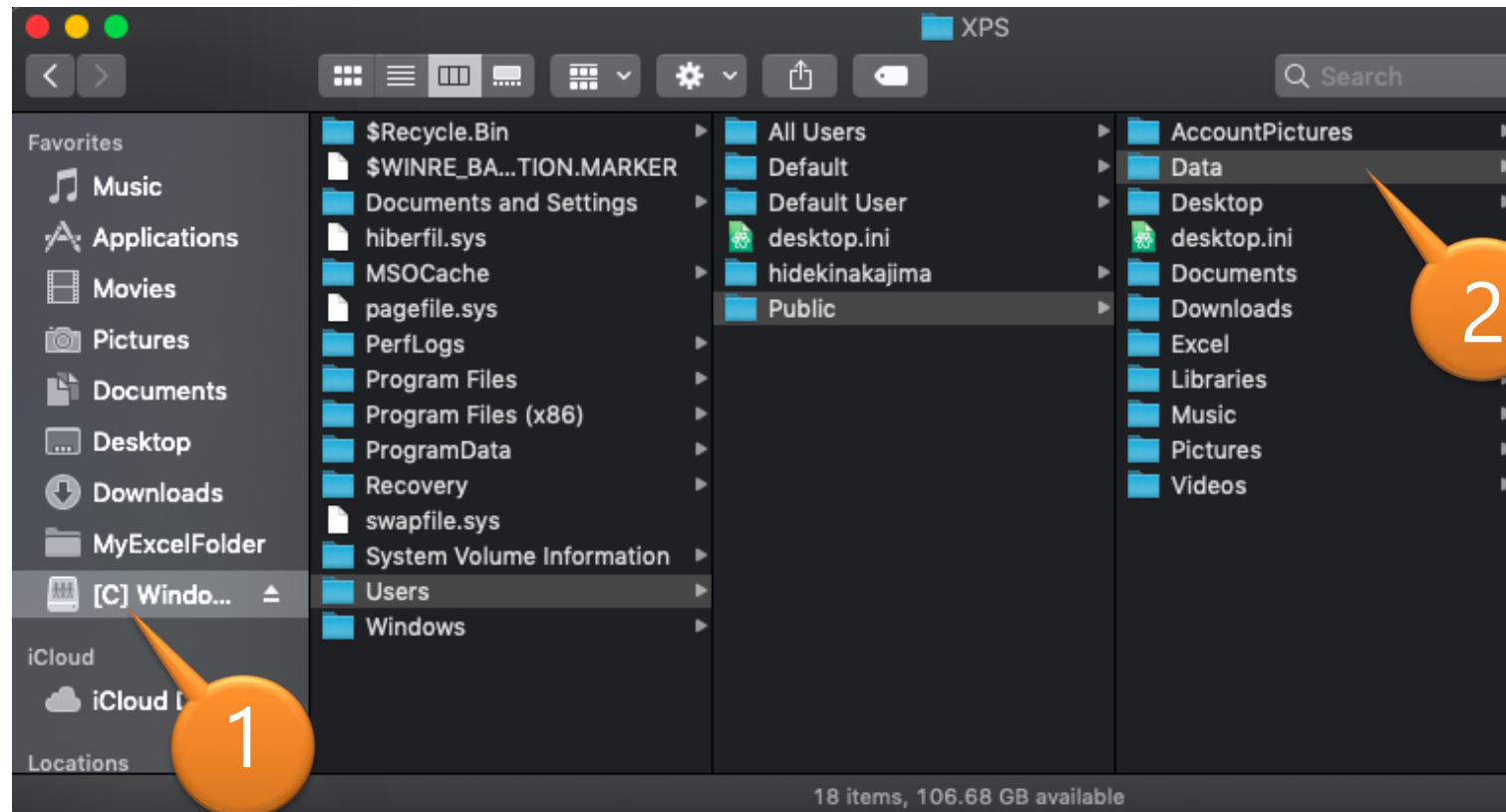
Virtual machine environment on macOS

EXCEL ON PARALLEL DESKTOP

Installation is the same as that used in the Windows Excel.

except

Database files under the folder "C:\Users\Public\Data\hideki\XPS\
It is important to find the Public folder under the [C] drive.



Then, the database location should be changed to `direc = "C:\Users\Public\Data\hideki\XPS\`

```
Sub CLAM2()  
  
ver = "8.42a" ' Version of this code.  
If Application.OperatingSystem Like "*Mac*" Then  
    backSlash = "/"  
Else  
    backSlash = "\"  
End If  
If backSlash = "/" Then ' location of directory for database  
    direc = "Library" + backSlash + "Group Containers" + backSlash + "UBF8T346G9.Office" + backSlash + "MyExcelFolder" + backSlash + "Data" + backSlash + "hideki"  
    ' mac: note "apple" should be replaced with your <username>.  
    'direc = backSlash + "Users" + backSlash + "hidekinakajima" + backSlash + "Library" + backSlash + "Group Containers" + backSlash + "UBF8T346G9.Office" + back  
    'direc = backSlash + "Users" + backSlash + "apple" + backSlash + "Documents" + backSlash + "XPS" + backSlash  
Else ' Windows  
    'direc = "D:\Excel XPS_macro\DATA\hideki\XPS\" ' this is for Windows PC with HDD storage.  
    direc = "C:" + backSlash + "Users" + backSlash + "Public" + backSlash + "Data" + backSlash + "hideki" + backSlash + "XPS" + backSlash ' this is for BOOTCAMP  
    'direc = "G:" + backSlash + "Data" + backSlash + "Hideki" + backSlash + "XPS" + backSlash ' test  
End If
```

1

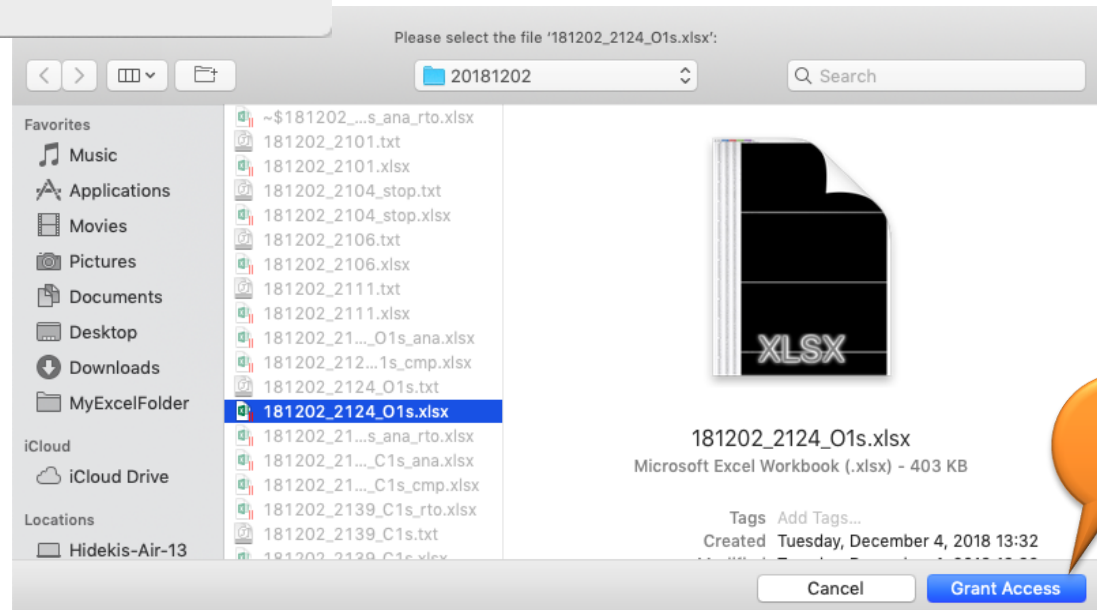
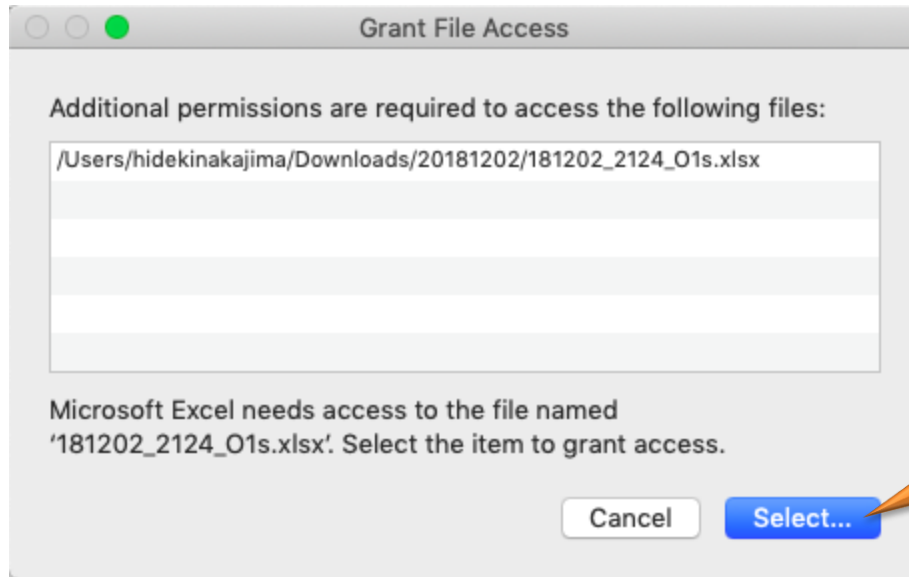
2

Save PERSONAL.XLSB

If you want to analyze the data outside MyExcelFolder

FILE ACCESS GRANT ISSUE

You need to grant file access every first access to the file.



References

- Multiple-file access granted on mac
 - <https://msdn.microsoft.com/en-us/library/office/mt654020.aspx>
 - <https://warwick.ac.uk/fac/sci/systemsbiology/staff/dyer/software/excelvbafileopen/>
 - <https://appuals.com/office-2016-grant-access-error-on-macos/>
- Excel 2016 on Mac updater packages
 - <https://macadmins.software/>
- Excel 2016 on Mac solutions
 - <https://www.rondebruin.nl/mac/mac015.htm>
 - <http://www.rondebruin.nl/mac/mac034.htm>