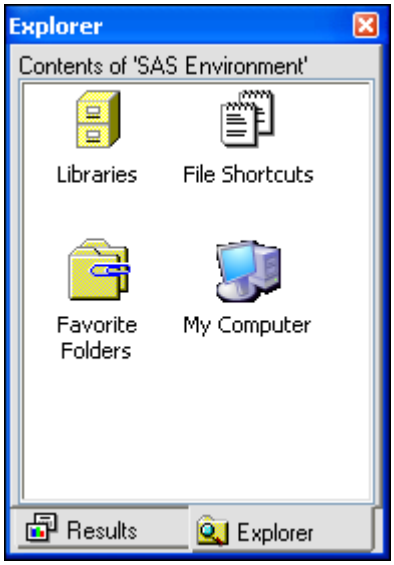
Unit 1-6 Exercises

Demo: Reading Excel Worksheets – Windows

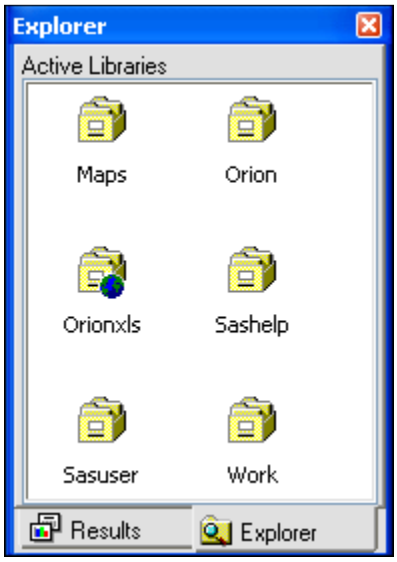
1. Submit the following program except for the last LIBNAME statement.

```
libname orionxls 'sales.xls';

data work.subset2;
   set orionxls.'Australia$'n;
   where Job_Title contains 'Rep';
   keep First_Name Last_Name Salary
        Job_Title Hire_Date;
   label Job_Title='Sales Title'
         Hire_Date='Date Hired';
   format Salary comma10. Hire_Date weekdate.;
run;

proc contents data=work.subset2;
run;

proc print data=work.subset2 label;
run;

libname orionxls clear;
```

2. Review the PROC CONTENTS and PROC PRINT results in the Output window.
3. Select the **Explorer** tab on the SAS window bar to activate the SAS Explorer or select **View** ⇨ **Contents Only**.



4. Double-click **Libraries** to show all available libraries.



5. Double-click on the **Orionxls** library to show all Excel worksheets of that library.

6. Submit the last LIBNAME statement to disassociate the libref.

1. **Reading an Excel Worksheet**

   a. Retrieve the starter program **p106e01**.

   b. Add a LIBNAME statement before the PROC CONTENTS step to create a libref called CUSTFM that references the Excel workbook named custfm.xls.

   c. Submit the LIBNAME statement and the PROC CONTENTS step to create the following partial PROC CONTENTS report:

   Page 1 of 3

```
                    The CONTENTS Procedure

                            Directory

                 Libref         CUSTFM
                 Engine         EXCEL
                 Physical Name  custfm.xls
                 User           Admin


                                        DBMS
                              Member    Member
                #  Name       Type      Type

                1  Females$   DATA      TABLE
                2  Males$     DATA      TABLE
```

   d. Add a SET statement in the DATA step to read the worksheet containing the male data.

   e. Add a KEEP statement in the DATA step to include only the **First_Name**, **Last_Name**, and **Birth_Date** variables.

   f. Add a FORMAT statement in the DATA step to display the **Birth_Date** as a four-digit year.

   g. Add a LABEL statement to change the column header of **Birth_Date** to **Birth Year**.

   h. Submit the program including the last LIBNAME statement and create the following PROC PRINT report:

   Partial PROC PRINT Output (First 5 of 47 Observations)

```
                                                        Birth
                Obs    First Name     Last Name        Year

                  1    James          Kvarniq          1974
                  2    David          Black            1969
                  3    Markus         Sepke            1988
                  4    Ulrich         Heyde            1939
                  5    Jimmie         Evans            1954
```

2. **Reading an Excel Worksheet**

   a. Write a LIBNAME statement to create a libref called PROD that references the Excel workbook named products.xls.

   b. Write a PROC CONTENTS step to view all of the contents of PROD.

   c. Submit the program to determine the names of the four worksheets in products.xls.

d. Write a DATA step to read the worksheet containing sports data to create a new data set called **Work.golf**.

The data set **Work.golf** should

- include only the observations where **Category** is equal to `Golf`
- not include the **Category** variable
- include a label of `Golf Products` for the **Name** variable.

e. Write a LIBNAME to clear the PROD libref.

f. Write a PROC PRINT step to create the following report:

Partial PROC PRINT Output (First 10 of 56 Observations)

Obs	Golf Products
1	Ball Bag
2	Red/White/Black Staff 9 Bag
3	Tee Holder
4	Bb Softspikes - Xp 22-pack
5	Bretagne Performance Tg Men's Golf Shoes L.
6	Bretagne Soft-Tech Men's Glove, left
7	Bretagne St2 Men's Golf Glove, left
8	Bretagne Stabilites 2000 Goretex Shoes
9	Bretagne Stabilities Tg Men's Golf Shoes
10	Bretagne Stabilities Women's Golf Shoes

3. Using PROC COPY to Create an Excel Worksheet

a. Write a LIBNAME statement to create a libref called MNTH that references a new Excel workbook named mnth2007.xls.

b. Write a PROC COPY step that copies **orion.mnth7_2007**, **orion.mnth8_2007**, and **orion.mnth9_2007** to the new Excel workbook.

c. Write a PROC CONTENTS step to view all of the contents of **MNTH**.

d. Write a LIBNAME statement to clear the MNTH libref.

4. Using the Import Wizard to Read an Excel Worksheet

a. Use the Import Wizard to read the products.xls workbook.

1) Select the worksheet containing children data.
2) Name the new data set **Work.children**.
3) Save the generated PROC IMPORT code to a file called **children.sas**.

b. Write a PROC PRINT step to create a report of the new data set.

c. Open **children.sas** to view the PROC IMPORT code.

5. Using the EXPORT Procedure to Create an Excel Worksheet

a. Write a PROC EXPORT step to export the data set **`orion.mnth7_2007`** to an Excel workbook called mnth7.xls.

b. Submit the program and confirm in the log that the mnth_2007 worksheet was successfully created in mnth7.xls.