Print

Summary of Lesson 7: Reading Spreadsheet and Database Data

This summary contains topic summaries, syntax, and sample programs.

Topic Summaries

To go to the movie where you learned a task or concept, select a link.

Reading Spreadsheet Data

You can use SAS/ACCESS Interface to PC Files to read the worksheets within a Microsoft Excel workbook. After you submit a SAS/ACCESS LIBNAME statement, SAS treats the Excel workbook as if it were a SAS library and treats the worksheets as if they were SAS data sets within that library. You submit a LIBNAME statement to specify a libref, an engine name, and the location and name of the workbook. The engine tells SAS the type of input file and which engine to use to read the input data.

LIBNAME *libref <engine>* "*workbook-name*" *<options>***;**
LIBNAME *libref <engine>* <**PATH=**> "*workbook-name*" *<options>***;**

When you browse the library, you might see worksheets and named ranges. Worksheet names end with a dollar sign, and named ranges do not. Because the dollar sign is a special character, you must use a SAS name literal when you refer to a worksheet in a program.

libref.'*worksheetname***$'n**

When you assign a libref to an Excel workbook in SAS, the workbook cannot be opened in Excel. To disassociate a libref, you submit a LIBNAME statement specifying the libref and the CLEAR option. SAS disconnects from the data source and closes any resources that are associated with the connection.

Reading Database Data

You can also read database tables as if they were SAS data sets by using the LIBNAME statement supported by SAS/ACCESS Interface to Oracle. This SAS/ACCESS LIBNAME statement includes a libref, an engine name, and additional connection options that are site- and installation-specific. After you submit the LIBNAME statement, SAS treats the Oracle database as if it were a SAS library, and any table in the database can be referenced using a SAS two-level name, as if it were a SAS data set.

LIBNAME *libref engine <SAS/ACCESS Oracle options>*;

Sample Programs

Accessing Excel Worksheets in SAS

```
libname orionx pcfiles path="&path/sales.xls";

proc contents data=orionx._all_;
run;
```

Printing an Excel Worksheet

```
proc print data=orionx.'Australia$'n;
run;

proc print data=orionx.'Australia$'n noobs;
   where Job_Title ? 'IV';
   var Employee_ID Last_Name Job_Title Salary;
run;
```

Creating a SAS Data Set from an Excel Worksheet

```
libname orionx pcfiles path="&path/sales.xls";

data work.subset;
   set orionx.'Australia$'n;
   where Job_Title contains 'Rep';
   Bonus=Salary*.10;
   label Job_Title='Sales Title'
         Hire_Date='Date Hired';
   format Salary comma10. Hire_Date mmddyy10.
          Bonus comma8.2;
run;

proc contents data=work.subset;
run;

proc print data=work.subset label;
run;

libname orionx clear;
```

SAS Programming 1: Essentials

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