

Summary of Lesson 6: Exporting Results

Exporting Data

- PROC EXPORT can export a SAS table to a variety of file formats outside SAS.

```
PROC EXPORT DATA=input-table OUTFILE="output-file"
             <DBMS=identifier> <REPLACE>;
RUN;
```

- The XLSX engine requires a license for SAS/ACCESS to PC Files.
- The XLSX engine can read and write data in Excel files.
- To write data to a new or existing Excel workbook, use the LIBNAME statement to assign a libref pointing to the Excel file. Use the libref when naming output tables. The table name is the worksheet label in the Excel file.

```
OPTIONS VALIDVARNAME=V7;
```

```
LIBNAME libref XLSX "path/file.xlsx";
```

- Use libref for output table(s).

```
LIBNAME libref CLEAR;
```

Exporting Reports

- The SAS Output Delivery System (ODS) is programmable and flexible, making it simple to automate the entire process of exporting reports to other formats.

```
ODS <destination> <destination-specifications>;

/* SAS code that produces output */

ODS <destination> CLOSE;
```

- Selected destinations:
 - CSVALL
 - PowerPoint
 - RTF
 - PDF
- Exporting results to Excel:

```
ODS EXCEL FILE="filename.xlsx" STYLE=style
             OPTIONS(SHEET_NAME='label');

/* SAS code that produces output */

ODS EXCEL OPTIONS(SHEET_NAME='label');

/* SAS code that produces output */

ODS EXCEL CLOSE;
```

- The ODS EXCEL destination creates an .XLSX file.
- By default, each procedure output is written to a separate worksheet with a default worksheet name. The default style is also applied.
- Use the STYLE= option on the ODS EXCEL statement to apply a different style.
- Use the OPTIONS(SHEET_NAME='label') on the ODS EXCEL statement to provide a custom label for each worksheet.
- Exporting results to PDF:

```
ODS PDF FILE="filename.pdf" STYLE=style
          STARTPAGE=NO PDFTOC=1;
ODS PROCLABEL"label";

/* SAS code that produces output */
```

ODS PDF CLOSE;

- The ODS PDF destination creates a .PDF file.
- The PDFTOC=n option controls the level of the expansion of the table of contents in PDF documents.
- The ODS PROCLABEL statement enables you to change a procedure label.