Examining SAS Data Set Descriptor Portion

PROC CONTENTS DATA=SAS-data-set; RUN;

Examining SAS Data Set Data Portion

PROC PRINT DATA=SAS-data-set; RUN;

SAS LIBNAME Statement

LIBNAME *libref* 'SAS-data-library' <options>; **LIBNAME** *libref* **CLEAR**;

Browsing a SAS Library

PROC CONTENTS DATA=libref._ALL_<NODS>; RUN;

Sorting Data

PROC SORT DATA=input-SAS-data-set <OUT=output-SAS-data-set>; BY <DESCENDING> BY-variables; RUN:

Producing Detail Reports

PROC PRINT DATA=SAS-data-set

<NOOBS LABEL SPLIT='split-character'>;
VAR variable(s);
SUM variable(s);
BY variable(s);
ID variable(s);

Subsetting Observations

WHERE expression;

IF expression;

RUN:

Special WHERE Operators

BETWEEN-AND
? or CONTAINS
IS NULL or IS MISSING
LIKE

Augmenting a WHERE Statement

WHERE expression1; WHERE SAME AND expression2; WHERE ALSO expression3;

Labels

LABEL variable1='label1' variable2='label2' ...;

Titles and Footnotes

TITLEn 'text'; TITLE;

FOOTNOTE*n* '*text*'; **FOOTNOTE**;

Applying Formats

FORMAT *variable(s) format* ...;

Creating User-Defined Formats

PROC FORMAT;

VALUE <\$>format-name range1='labe1l' range2='label2'

RUN;

Reading a SAS Data Set

DATA output-SAS-data-set(s); SET input-SAS-data-set; <additional SAS statements> RUN;

Creating New Variables

new-variable=expression;

LENGTH variable(s) < \$ > length ...;

Subsetting Variables

DROP variable-list;

KEEP variable-list;



Reading Spreadsheet Data

LIBNAME libref <engine-name> <PATH=>'physical-filename' <options>;

LIBNAME libref CLEAR;

Reading Database Data

LIBNAME libref engine-name <SAS/ACCESS options>; **LIBNAME** libref **CLEAR**;

Creating and Using Macro Variables

%LET macro-variable=value; ¯o-variable

Reading Delimited Raw Data Files

DATA SAS-data-set(s);

INPUT variable <\$> variable <:informat>...; <additional SAS statements>

RUN;

Concatenating SAS Data Sets

DATA SAS-data-set(s);

SET SAS-data-sets:

<additional SAS statements>

RUN:

Merging SAS Data Sets

DATA SAS-data-sets;

MERGE SAS-data-sets;

BY <DESCENDING> *BY-variable(s)*;

<additional SAS statements>

RUN;

Functions

YEAR(SAS-date)

QTR(SAS-date)

MONTH(SAS-date)

DAY(SAS-date)

WEEKDAY(SAS-date)

TODAY() or DATE()

MDY(month, day, year)

UPCASE(argument)

SUM(argument1, argument2, . . .)

Conditional Processing

IF expression THEN statement;

ELSÉ IF expression **THEN** statement;

ELSE statement;

IF expression THEN DO;

statements

END;

ELSE IF expression **THEN DO**;

statements

END;

ELSE DO;

statements

END:

SAS Data Set Options

SAS-data-set(IN=variable)

SAS-data-set(**RENAME**=(old-name1=new-name1 old-name2=new-name2...))

Data Summarization and Validation Procedures

PROC MEANS DATA=SAS-data-set <options statistics>;

CLASS *variable(s)*;

VAR variable(s);

RUN;

PROC FREQ DATA=SAS-data-set <options>;

TABLES variable(s) < / option(s) >;

TABLES variable1* variable2 </ option(s)>;

RUN:

PROC UNIVARIATE DATA=SAS-data-set;

VAR *variable(s)*;

ID variable(s);

RUN;

Directing Output to External Files

ODS destination **FILE**='filename.ext'

<**STYLE**=style-template>;

SAS code generating output

ODS destination **CLOSE**;

