

SAS CURRICULUM

Introduction SAS

- Why SAS? why not others
- Advantages of using SAS
- Major components of SAS suite
- SAS windows

Basics/Rules in creating a variable/Dataset

Sorting the data

- Ascending/Descending
- Removing duplicates using options
- Storing duplicates

Accessing Data in SAS

- Use COLUMN, FORMATTED and LIST input to read raw data files.
- Use INFILE statement options to control processing when reading raw data files.
- Use various components of an INPUT statement to process raw data files including column and line pointer controls, and trailing @ controls.
- SAS libraries: Creating temporary and permanent libraries
- Options to read raw data: Miss over, Turnover ,DSD,DLM

Behind the scene

- SAS DATA Step Processing – Compilation Phase and Execution Phase
- Program Data Vector (PDV)
- SAS dataset: data and descriptor portions
- Understanding how SAS files are stored



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SAS statements

- Differences between system options, data set options and statement options
- In formats, Formats, Attrib, Datelines, Delete, Drop, Keep, Label, Length, Retain, Sum, Dim

SAS Options

- Data set options: KEEP, DROP, RENAME, FIRSTOBS, OBS, IN, LABEL, WHERE
- SAS System Options – OBS, FIRSTOBS, BUFNO, BUFSIZE, LINESIZE, PAGESIZE, NODATE, YEARCUTOFF

SAS Functions

- INPUT and PUT
- Character Functions
- Numeric Functions
- Date Functions

Conditional Processing

- Sub setting IF
- IF-THEN/ELSE statement
- DO statement
- DO UNTIL statement
- DO WHILE statement



Connecting to outside world

- FTP thru SAS
- Connect to different servers (SQL server etc)
- Export data to create standard and comma-delimited raw data files



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Merging & Appending Data

- SET and MERGE Statements
- MODIFY and UPDATE Statements
- WHERE Statement and differences with IF
- RETAIN and RETURN Statements

Analysis and report generation: SAS Procedures

- Proc Freq, Proc Print, Proc Sort, Proc Means, Summary, Copy, Proc Report, Proc Import/Export, Proc Format, Proc Append, Proc Contents, Proc Rank, Proc Transpose, Proc Tabulate, Proc compare

SAS Macros

- Storing SAS Macros
- Defining and Calling Macros
- Referencing Macro Variables
- Macro Parameters
- Macro Quoting Technique
- Macro Debugging Technique

PROC SQL

- Select statement
- Sorting
- Subset the data
- Joins (Inner, left, right, Full...)



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Error Handling

- Identify and resolve programming logic errors
- Recognize and correct syntax errors

KEY FEATURES



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