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

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

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...)

Error Handling

- Identify and resolve programming logic errors

- Recognize and correct syntax errors

KEY FEATURES

 Instructor-led Sessions

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 Assignments

 24 x 7 Support

 Real-time Case Studies

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