

SAS

Curriculum

SAS Base

Getting Started using SAS

- History of SAS
- Introduction SAS Modules
- Rules for SAS Statements
- SAS Comments
- SAS Data set definition
- SAS Data Types
- Two Parts of SAS Program
- Difference between DATA and PROC Steps
- SAS Windowing Environment
- Submitting the SAS Program
- Reading SAS log and Output window
- Creating HTML Output
- SAS Data sets with SAS Explorer

Getting Your Data into SAS

- Methods for getting data into SAS
- Entering data with view table Window
- Telling SAS where to find raw data
- Reading Raw data separated by spaces (LIST INPUT)
- Reading Raw data separated by commas
- Reading Raw data separated by DSD method
- FORMAT and INFORMAT data types
- Applying an INFORMAT Statement to LIST INPUT
- Reading character values that contain blanks
 & Format Modifiers
- Reading raw data arranged in columns
- Reading selected variables data
- Holding the data line through multiple iterations of the DATA Step (@@)
- Temporary Vs Permanent data set
- INFILE Statement options (FIRST OBS= OBS MISSOV ER SCANOVER)
- Working with SAS dates

Working with your DATA

- Creating and redefining variables
- SAS Arithmetic operators
- SAS Logical Operators
- Using IF-THEN Statements
- Using IF-THEN/ELSE Statements
- RETAIN and SUM Statement
- SAS Arrays

Reading and Combining SAS Data Sets

- Modify DATA set by SET Statement
- Interleaving Data sets using the Set statement
- MERGE Statement
- Combining DATA sets using ONE-ONE MERGE
- Combining DATA sets using ONE MANY MERGE
- Combining SAS Data sets by adding observations.
- Combining SAS Data sets by adding variables
- SAS DATA SET Options.
- Difference between KEEP and DROP Statements.
- UPDATE Statement
- Update master file from a Transaction file (UPDATE STATEMENT).

SAS PROCEDURES

- PROC Print
- PROC Format
- PROC Contents
- PROC Sort
- PROC Append
- PROC Summary
- PROC Means
- PROC Compare
- PROC Report
- PROC Tabulate
- PROC Chart
- PROC Plot
- PROC Transpose
- PROC Export

SAS ACCESS

- Libref Statements
- Pass-through Method

SAS Advanced

SAS MACROS

- Macro Concepts
- Substituting Text with Macro Variables
- Creating modular code with Macros
- Adding parameters to Macros
- Automatic Macro Variables

SAS STAT

SAS/STAT software provides extensive Statistical capabilities with tools for both specialized and enterprise-wide analytical needs. SAS/STAT includes techniques for scoring and multiple testing.

| Macro Queries – Solutions | | PROC Univariate PROC Regression PROC Anova PROC Corr PROC Freq PROC Box plot | | |
|---|---------|--|-----------|--------|
| SAS GRAPH Overview Procedures to produce Color plots, Charted Maps, Slides and other displays. Enhance graphics Output Types of Charts (Hbar, Vbar, Pie, Block, Donut, Star, pie3d, Hbar3d, Vbar3d charts) | | SAS SQL Introduction to SQL SQL Statements Importance of PROC SQL Overview of SELECT Statement SELECT and FROM Clause ORDER BY Clause GROUP BY Clause HAVING clause Selecting the data from more than one Tabilance | | |
| Output Delivery System Concept of ODS Tracing and Selecting Procedure Output Creating SAS Data Sets from Procedure Output Creating HTML Output Create RTF Output Specific | | Domain | | |
| Clinical Finance E | Banking | Market Re. | Analytics | Pharma |