

CETPA INFOTECH PVT. LTD.

CURRICULUM FOR SAS

Introduction & Working with the windows

Introduction Objective of SAS Program

- editor window
- Log window
- Output window Result window Explorer window
- Installation of SAS with its Complete Modules
- Rules for SAS Statements, Dataset Names
- Naming Convention for SAS Variables and Observation

Overview of Libraries

Datasets Data view

- Referencing Files in SAS Libraries

Components of SAS Code and Syntaxes

- Data Types in SAS
- SAS Date Value
- SAS Terminologies

Methods for getting data into SAS

- Entering data directly into SAS data sets
- Creating SAS data sets from raw data file
- Converting other software's data files into SAS data sets
- Reading other software's data file directly
- Reading files through infile statement
- Reading .csv, text file and flat files
- Copying the Dataset through SET statement

Understanding Data step Processing

- Program data vector(PDV) Input Buffer
- Compilation Phase Execution Phase
- Identify the processing phase in which an error occurs
- Debug SAS DATA steps
- Automatic System Variables
- Concept of missing values in the Data

Reading Raw Inputs

- Column Input
- Format Input
- Date and Time Input

Methods for Combining the SAS Data Set

- Concatenating Interleaving
- One-to-One match Merge One-to-Many match Merge Many-to-one merging
- Many-to-Many match Merge Merging the Complex Samples

Special functions & Updating the Datasets

- Retain Statement Sum Statement
- Update a Master Data set with Transactions Usage of _N_ & _Error_ variables
- Usage of first.variable and last.variable

Infile Statement, Delimiters and Options

- DSD, DLM Missover Truncover PAD
- Firstobs Obs

Functions

- CAT
- INPUT
- PUT
- SCAN
- UPCASE
- LOWCASE
- PROPCASE
- CATS, CATX
- Left, Trim
- SUBSTR
- INDEX
- FIND

Conditional Processing

- If statement
- if else statement
- If then--- DO --else statement

Do Loop

- Generating Data with DO Loops
- Construct a DO loop to perform repetitive calculations
- Control the execution of a DO loop
- Generate multiple observations in one iteration of the DATA step
- Construct nested DO loops.
- Loops (do, do until, do while)

An Introduction to Array & Array Processing

- Why do we need SAS arrays
- When to use arrays
- Applying the same computation to many variables simultaneously
- Define Arrays
- One Dimensional Arrays
- Recoding Variable
- Basic Array Concepts
- Array Statement

Fundamentals of the ODS

Introduction to ODS language Statements ODS and the Data step

- HTML
- PDF Files
- RTF Files
- CSV Files

HTML

- Body
- Contents
- Frame
 - **SAS SQL**
- Introduction SQL Concept
- Learning the SQL as a Language Creating the tables
- Modifying the tables Updating the tables
- Introduction to Proc SQL Creating tables
- Inserting data into tables Alter the tables & etc...
- **Retrieving Data from Multiple tables**
- Outer Join (Right, Left, Full) Natural Join

Inner Join

SAS Macro

- Introduction to Macro Language Elements
- Introduction to Macro Variables
- Automatic Macro Variables User defined Macro Variables
- Introduction to Macro Processing Macro Statements
- Macro Functions
- Macro Debugging Options Positional Macro Parameters
- Conditional Macro Compilation

Understanding Macro Parameters

- Macro Parameters Invoking Macros

Macro Programming

- %if...%then...%else and %do...%end
- %let
- %macro
- %mend
- %put
- SAS Macro-Function Utilities

Different Methods to Define a Macro

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