

SAS Online Training

About the SAS Course

Retors Lernen Labs provide on-line training on Program applications of **SAS** Courses like **BASE, CLINICAL, FINANCIAL, CLINICAL DATA MANAGEMENT (CDM)** and Business Intelligence and etc., in Universal by experienced IT professionals. The online class learning program contains course information like conversation, queries, clarifications of demo class and tasks also as end-of-course projects which will be assessed by the most effective professional training facilitators.

SAS is described as the software package around that the entire analytics firm was built.....well that will be an exaggeration, however SAS commands on overwhelming market share within the advanced analytics tools. As per an IDC report SAS has a 35th market share, more than double its nearest competition. It has been around for quite 45 years and is currently similar with Analytics.

Salient Features

- Strategic oriented training methodology
- Basic to advanced concept
- Example real time case studies
- Start learning from basic fundamentals.
- Training by real time experienced consultant
- Doubt clarification sessions
- Certification preparation help.
- Help with CV writing, interview tips
- The course fees will be affordable

We additionally give class room and on-line course to deal with today's competitive IT world. Learners will grasp the technology-subject from our highly experienced and a certified trainers which is able to be serving to the scholars to figure in real time comes. Learners can prefer for either regular course or fast track categories or weekend coaching categories.

Road Map a Head

There is a huge scope of SAS for fresher's and experienced. Banks are heavily using SAS as are Insurance and other Financial Services companies like Citi, HSBC, JP Morgan, and Wells Fargo. The reasons are:

- They have been using SAS for ages and have systems built around SAS.
- SAS is safer than open source tools like R and Knime, very important for Data Security and Basel II norms and more statutory norms.
- SAS has introduced big data capabilities along with SAS JMP and SAS Visual Analytics.

- Production level capability: SAS can put your analytics into production in banking and financial systems. R does not have this, though we need to see where Revolution R (purchased by Microsoft) stacks up.

Over the course, Mark gave all of us students a great introduction to the SAS programming language. Explained the basic steps that comprise SAS programs, the different elements of a SAS dataset and how the SAS software system processes data.

Retors USP

Retors Lernen Labs offer **SAS on-line coaching in across all countries like USA, UK, Canada, Singapore, UAE, Australia, Europe, Japan, China and India.** We tend to additionally give Job support & Interview Support.

- Retors Lernen Labs is providing **SAS** coaching supported specific desires of the learners particularly we are going to provide innovative one to 1 categories that have nice opportunities within the gift IT market.
- Retors Lernen Labs is a world class leading training organization committed to impart excellence in training on leading technologies across the world. With World class working knowledge we boast that our trainers are second to none when compared to other faculty in both National and International levels.
- It's proud to be we have a tendency to square measure one among the highest leading **SAS on-line coaching provider from India.** We are into this field with passion and dedication we are in to on-line trainings from a few years.
- Our team of well practiced **SAS** trainers with large real time IT expertise in on-line coaching's devoted towards providing quality training. Retors Lernen Labs has taken nice steps in providing highest quality on-line categories.

If you want to know more about **SAS** Online Training do not hesitate to call **+91-7032670921** or mail us on **retorslernenlabs@gmail.com**.

Course Content - 1

- BASICS BEFORE STARTING SAS:
- DATAWAREHOUSING Concepts
- What is ETL
- ETL Concepts
- What is OLAP

SAS:

- What is SAS
- History of SAS
- Modules available SAS

GETTING STARTED WITH SAS SYSTEMS:

- Basic operating system commands, operating system file structures
- Managing windows in SAS window environment
- Use of different kind of SAS products and how to use in SAS application.
- Difference between the SAS products.
- Why using the SAS in different sectors.
- How to use the data step to read and manipulate complex forms of data
- Write Data and Proc steps.
- Data step compile and execution
- To run SAS application on different modes
- Reading internal reading and printing raw data into SAS
- Read any type of external raw data into SAS
- Reading raw data SAS environment into DATA SET using Input statement & advance INFILE statement options
- Working with Data Storage in SAS libraries creation for user defined libraries and multi-engine architecture
- Using a single libref to reference some or all SAS libraries reading and printing mixed records formats.
- Reading packed and zoned decimal data working with EBCDIC and ASCII data
- Reading data from data set to another data set.
- To manage the SAS window environment used with global options.
- Reducing memory requirements with BUFFNO and BUFSIZE working with SAS data set options
- To manage existing data with controlling statements and expressions
- Creating Summary Information, SAS Functions, Transforming Data
- Changing variable types using the PUT and INPUT functions summarizing data files
- Generation data sets to create historical information SAS
- To export data from data sets to delimiter files using with data set block
- Understand error messages in the SAS Log and debug your program
- Use with Error Handling concepts

PERFORM ITERATIVE PROCESSING ON DATA:

- Using Do loops for repetitive calculations and processing
- Using Arrays to process across an observations and processing
- Using DO WHILE and DO UNTIL statements for conditional looping

INDEXING TECHNIQUES AND USES:

- When to use indexes
- Creating and deleting indexes
- Index advantages and disadvantages

UTILITIES TO MANAGE AND WORK WITH DATASETS:

- Data using append procedure to add data values in existing dataset
- Using the update statement to update data in existing dataset.
- Using the MODIFY statements to update and modify data in place
- Merging concepts
- Data transformation
- Concatenation concept in merging
- Interleaving concept and merging
- Different kind of match merging using MERGE statement using the contribution (IN=) option in merge concept
- Using ODS concept to generate reports

BASE SAS PROCEDURES:

- Organize and sort SAS data sets and working with duplicates
- To generate listing output use print
- Comparing data sets with proc compare
- To create user defined informat and format statements use format
- Using proc copy to copy data sets
- Importance of contents procedure
- Reading data from dataset for reporting use report
- Using Proc Datasets to modify data set structure, attributes, how to use permanent formats, Setting up Integrity Constraints to maintain clean data and Setting up indexes
- Role of ODS concepts to reporting SAS output
- To generate SAS output in different panels like RTF, HTML,PDF and XML Using ODS

How to use PROC SQL to retrieve INFORMATION from their Data:

- Introduction to SQL Concepts
- The origin of SQL and why we use it.
- Create new tables, indexes , views and reports

SIMPLE QUERIES:

- Understanding to SQL Concepts
- How to specify columns and subset rows
- Using functions to summarize and group data
- Ordering data and formatting out
- Performing group analysis, remerging and sub queries

JOINING DATA:

- What are Cartesian Products, what is join
- Inner, FULL, OUTER, LEFT and RIGHT Joins
- Set Operator us such as union and intersection joining multiple tables
- PROC SQL as compared to the data step

WORKING WITH TABLES, VIEWS AND indexes:

- Creating Indexes and table in SQL
- Why we use Views in SQL
- Performance and space ISSUES

ADVANCED SQL Topics:

- HOW TO USE SAS MACROS IN SQL
- How dictionary table and views can simplify programming SQL options
- How to retrieve Raw data different from DATABASES to SAS environment using SQL Statements
- To create table in different databases using SAS sql statement
- To manage in different databases using SAS Sql Statements

PASS TROUGH FACILITY:

- Uses of pass through facility
- How to communicate with other database like Access, Oracle
- To control and manage other databases fro the SAS.
- To access required data from other databases
- To create DATAWAREHOUSING environment

Basic Statistical Procedures (SAS/STAT) and reporting Procedure:

- To summary statistical Analysis Summary Procedure
- Producing Statistical with means Procedure
- Testing Categorical Data with FREQ PROCEDURE
- Reporting areas in SAS
- To generate report use with Proc Report
- Examining Data with Univariate Procedure

How to work with SAS/ACCESS & SAS /Connect:

- To import data from different PC files use import procedure
- To export data from different source use access procedure
- To export data from datasets to different PC files use export Procedures
- Uses of DBLoad procedure and how to work
- To transport datasets one environment to another environment and one version to another

version to another version (windows to UNIX) use with cprot and cimport procedures

- How to use Upload Procedure
- How to use Download Procedure

How to work with MACRO LANGUAGE INTRODUCTION to MACROS:

- How the SAS macros Language Works
- What is the role of macro in SAS
- Introduction to tokening, compiling and executing a SAS program
- How the macro Processor Works

Applying MACRO VARIABLES in a SAS PROGRAM:

- Applying automatic macro variables
- Designing customized macro variables
- Submitting the macro variables in SAS Programming
- Displaying MACRO VARIABLES VALUES in the SAS log
- Applying quoting functions with macros

Incorporating SAS Macros in the DATA STEP:

- Designing macro variables during Data step Execution
- In directing referencing Macro variables
- Resolving Macro variables during DATA STEP EXECUTION
- Under staining the functionality and application of the SYSMGET function and SYSMPUT routine
- Using the INTO clause to build macro variables during PROC SQL execution

RUNNING MACRO PROGRAMS IN SAS SOFTWARE:

- Designing and implementing simple macros and reduce customizing SAS application
- To Develop Reusable Application use with MACRO
- Specifying conditional coding inside a macro
- The macro compilation and execution processes in the macro processor SAS system options used for debugging macros
- Reviewing error and warning log messages displayed by the macro processor
- Designing and using macros containing parameters within them
- Using positional and keyword parameters in macro calls
- Difference macros and symbol table Hierarchies
- Concepts in MACRO FUNCTIONS, MACRO INTERFACE AND MACRO Quoting Functions and how to use MACRO CODING.

Techniques for Storing MACROS:

- Understanding the auto call feature
- Permanently storing and using compiled macros
- Writing Efficient macro programs

DEBUGGING SAS PROGRAMS:

- SAS programs that work
- Fixing Programs that don't work
- Searching for the missing semicolon
- Input statement reaching past the end of line
- Lost card
- Invalid Data
- How to handle different kind of SAS errors
- Missing VALUES were Generated
- Numeric values have been converted to Character
- WRONG results but no error message
- The data step Debugger
- SAS Truncated a character variable
- SAS stops in the middle of the job
- SAS runs out of memory or disk space