



CURRICULUM

SAS INTELLIGENCE PLATFORM – BI TOOLS 4.2 VERSION

SAS BUSINESS INTELLIGENCE TOOLS - COURSE OUTLINE

Practical Project Based Training & Implementation on all the BI Tools

- SAS Data Integration Studio 4.2
 - SAS Olap Cube Studio 4.2
 - SAS Management Console 9.2
 - SAS Enterprise Guide 4.2
 - SAS Information Map Studio 4.2
 - SAS Web Report Studio 4.2
 - SAS Dashboard 4.2
 - SAS Information Delivery Portal 4.2
 - SAS Web Olap Viewer for Java
 - SAS Stored Process 4.2
 - SAS Stored Process Web Application 4.2
 - SAS Add In for Ms Office 4.2
- Introduction to DWH / BI Concepts

Course Overview

SAS Data Integration Studio 4.2

- » Introduction to SAS DIS Studio
 - Features of SAS DIS Studio
 - Tasks performed by SAS DIS Studio
 - Navigation to SAS DIS Studio
 - Registering Source Tables Metadata
- » Register metadata for existing SAS data sets
 - Register metadata for a relational database accessed through an ODBC Driver
 - Register metadata for an external flat file (.csv, .txt files)
- » Registering Target Tables Metadata
 - Register target metadata for dimensional and fact tables
- » Creating a Job to load target tables
 - Dimensional Tables
 - Fact Table
- » Creating the Star Schema Design (Implementing Slowly Changing Dimension Concepts)
- » Applying Transformations
 - **Slowly Changing Dimensions**
 - SCD Type2 Loader
 - Fact Table Lookup
 - Surrogate Key Generator
 - Key Effective Date
 - **Data Transformations**
 - Proc SQL
 - Lookup Table
 - Append
 - Extract
 - Validate
 - Return Code Check
 - Data Transfer
 - Sort
 - Rank
 - Splitter
 - Control Table
 - User Written Code
 - Create Transformation Template
 - Transpose
 - **Data Access Transformations**
 - File Reader
 - File Writer
 - Table Loader
 - **Analysis Transformations**
 - Frequency Report
 - One-Way Frequency Report
 - Summary Report
 - Tabulate Report
 - Print Report
 - Standardize

- » Converting a report job to a Stored Process
- » Scheduling Jobs in DIS
- » Metadata Sharing
- » Metadata Synchronization
- » Creating Project and Custom Repositories
- » Setting up Change Management for Project Repository
- » Creating a Job that contains Jobs
- » Creating Status Handlers for the Jobs
- » Impact and Reverse Impact Analysis

SAS OLAP Cube Studio 4.2

- » OLAP Introduction
- » OLAP Components / Architecture OLAP Models
 - ROLAP
 - MOLAP
 - HOLAP
- » Discuss Dimensions / Facts / Hierarchies / Levels / Measures / Ragged Hierarchies / Aggregation
- » Introduction to SAS OLAP Cube Studio Tool
 - Features of SAS OLAP Cube
 - Tasks performed by SAS OLAP Cube
 - SAS OLAP Server benefits
- » Navigation to SAS OLAP Cube Studio
- » Steps to create an OLAP Cube
 - Creating an OLAP Cube using the cube designer:
 - Create an OLAP Cube from Detail Table (ROLAP)
 - Create an OLAP Cube from Star Schema (ROLAP, HOLAP)
 - Create an OLAP Cube from Summarized Table
 - * Create an OLAP Cube with the following features:
 - Dimensions
 - Levels
 - Hierarchies
 - Measures
 - Aggregates
 - Review the Cube design and structure
- » Exploring OLAP Cube with
 - SAS Enterprise Guide
 - SAS Information Map Studio
 - Microsoft Office Excel
 - SAS WRS
- » Performing Cube Updates
- » Incremental Update to OLAP Cube
- » In-Place Cube Update
- » Introduction to MDX queries

SAS Management Console 9.2

- » Introduction to SAS Management Console
- » Navigation in SAS Management Console
- » SAS Open Metadata Architecture
- » Introduction to Metadata
 - Centralized Metadata Management
- » SAS Metadata Server
 - Connecting to the Metadata Server
 - Introduction and Working With Metadata Repositories
- » Client / Server Interactions
- » Create a Custom and Project Repository
- » Replication and Promotion of Metadata
- » User Manager plug-in
- » Introduction to SAS Application Servers and defining the SAS Application Servers and various other servers from SAS Management Console
- » Security planning for the user and user groups
- » Access control planning
- » Data Library Manager plug-in
 - Defining a data library

- » Setting up Change Management
- » Creating a new metadata profile from SAS ETL Studio
- » Using Job Scheduler plug-in
 - Define a SAS Batch Server
 - Define a Scheduling Server
 - Create and Schedule a job
 - Introduction to Stored Process and creating Stored Process
 - Additional Topics (Database Server, Database Schema, Data Library)

SAS Enterprise Guide 4.2

- » Introduction to SAS Enterprise Guide
- » SAS Enterprise Guide Framework
 - SAS EG Building Blocks
 - SAS EG Navigation
- » Create a Project
- » Add data to the Project:
 - Adding local SAS table
 - Accessing remote data (Self Study)
 - Adding spreadsheet to a project
 - Adding text file to a project as a SAS dataset
- » Creating various Report Tasks
 - List Report
 - Frequency Report
 - One-Way Frequency Report
 - Two-Way Frequency Report
 - Generating Summary Statistics
 - Create Tabular Summary Report
 - Creating a Graph
- » Create various Data Transformation
 - Filter
 - Sort
 - Rank
 - Transpose
 - Splitter
 - Append
- » Introduction to Query Builder
 - Setting a filter and selecting columns
 - Creating new columns in a query
 - Replacing values in a query
 - Joining Tables
 - Inner Joins
 - Outer Joins
 - Creating and applying custom formats
- » Creating Advanced Queries
 - Controlling Query Output
 - Creating and applying parameterized queries
 - Grouping and Filtering data in a query
- » Additional Topics
 - Automating projects and processes
 - Creating customized Process Flow
 - Modifying SAS Code
 - Customizing Task Code
 - Exporting SAS Code
 - Customizing the Outputs
 - Style Manager
 - Document Builder
 - Project View
- » Viewing an OLAP Cube with SAS Enterprise Guide
- » Viewing an Information Map with SAS Enterprise Guide
- » Create and Register Stored Process from SAS Enterprise Guide

SAS Information Map Studio 4.2

- » Introduction to SAS Information Map Studio
- » Navigating SAS Information Map Studio
- » Access and source data from SAS Information Map Studio
- » Updating an Information Map with filters, prompts, folders and new data items
- » Building an Information Map from:
 - SAS Datasets (Relational SAS Information Map)
 - OLAP Cube (Multi Dimensional Information Map)

SAS Web Report Studio 4.2

- » Introduction and Navigation to SAS Web Report Studio Interface
- » Understanding the Tasks performed within SAS Web Report Studio
- » Creating Basic reports by using New Report and Report Wizard
- » Create a Web Report from Detail table and OLAP cubes Information Maps
- » Managing Existing Reports
 - Searching a report
 - Navigating report folders
 - View report definitions
 - Storage locations for reports
 - Report actions available (Edit/Rename/Move/Copy/Delete/Rename/Schedule)
 - Scheduling & Distributing Report

SAS Stored Process 4.2

- » Introduction to SAS Stored Process
- » Building Registering and Testing Stored Process
 - SAS Enterprise Guide 4.2 (Create, Register and Test)
 - SAS Data Integration Studio (Create and Register)
 - SAS Management Console (Registration)
 - Access Stored Process from SAS Web Report Studio / SAS Information Map Studio / SAS Stored
 - Process Web Application
- » Create Stored Process with Prompts.

SAS Stored Process Web Application 4.2

- » Introduction to SAS Stored Process Web Application
- » Viewing SAS Stored Process from Web Application
- » Managing Stored Process from Web Application

SAS Add-In for Microsoft Office 4.2

- » Introduction and Navigation to SAS Add-In for Microsoft Office
- » Connecting to the SAS Metadata Server from Microsoft Excel
- » Inserting SAS Data into Microsoft Excel
 - Accessing SAS data
 - Filtering SAS data
 - Sorting SAS data
 - Selecting and Ordering columns
- » Analyzing with SAS Tasks in Microsoft Office
- » Access and Analyze SAS OLAP Cubes from Microsoft Office
- » Running Stored Process from Microsoft Excel
- » Customizing the Output Style

Data Warehousing and Business Intelligence Concepts Data Warehousing

- » Data Warehouse Introduction
 - Steps to Design Data Warehouse
 - Components of Data Warehouse
 - Approaches to Data Warehouse Designing
 - Data Modeling types:
 - Normalized Data Model (Databases)
 - Dimensional Data Model (Data Warehouses)

Business Intelligence

- » Business Intelligence Introduction
- » SAS Business Intelligence Architecture
 - Client Tier – Middle Tier – Server Tier
- » Introduction to Metadata
 - Types of Metadata
 - SAS Centralized Metadata Repository
 - Advantages of SAS Centralized Metadata Repository
 - About Metadata Profile
- » Data Model's
 - Normalized Relational Data Model (Entity-Relationship)
 - Dimensional Data Model
 - Star Schema Design
 - Snowflake Schema Design
 - Dimension Tables
 - Steps in designing Dimensional tables
 - Conformed Dimensions
 - Junk Dimensions
 - Degenerate Dimension
 - Slowly Changing Dimension (Type1, Type2 & Type3)
 - Fact Table
 - Steps in designing Fact tables
 - Types of Fact tables
 - Additive
 - Semi-Additive
 - Non-Additive.

Partners :



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Java



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