MICROSOFT BUSINESS INTELLIGENCE (MSBI: SSIS, SSRS and SSAS)

Microsoft's Business Intelligence (MSBI) Training with in-depth Practical approach towards SQL Server Integration Services, Reporting Services and Analysis Services. An impeccable training course that is exclusively designed with Basics through Advanced MSBI Concepts.

Course Content and Syllabus for Microsoft BI MSBI Training

Module1: SQL Server Analysis Services:

Introduction	OLAP Modeling and Modeling source schemas—stars and snowflakes
	Understanding dimensional modeling— Dimensions (Type 1, 2, or 3) or rapidly changing
	Understanding fact (measures) and cube modeling
	Other types of modeling—data mining etc.
Intermediate SSAS	Creating Cubes
	KPIs
	Perspectives
	Translations – cube metadata and currency localization
	Actions – regular, drill-through and reporting
Advanced SSAS	Using multiple fact tables
	Impersonation
	Modeling intermediate fact tables
	Modeling M:M dimensions, Fact (degenerate) dimensions, Role-playing dimensions, write back dimensions
	Modeling changing dimensions – Dimension Intelligence w/ Wizard
	Using the Add Business Intelligence Wizards – write-back, semi-additive measures, time intelligence, account intelligence

Cube Storage and Aggregation	Storage topics – basic aggregations, MOLAP
	Advanced Storage Design – MOLAP, ROLAP, HOLAP
	Partitions – relational and Analysis Services partitions
	Customizing Aggregation Design –Processing, design
	Rapidly changing dimensions / ROLAP dimensions
Cube processing and Deployment	Cube Deployment utility and options
	Cube processing options
MDX	Basic syntax, Using the MDX query editor in SQL Server Management Studio, Most-used Functions & Common tasks, New MDX functions
	Adding calculated members, Adding scripts, Adding named sets, .NET Assemblies, SSAS Administration

Module2: SQL Server Integration Services:

Introduction	Need SSIS Package and ETL tools
	SSIS Package Architecture Overview, history, Editions
	Launching BIDS and SSDT
	Project templates, Package designer, Toolbox, Solution Explorer, Properties window, Variables window, SSIS menu etc.
Control Flow	Task and Containers
	Grouping and looping
Data Flow	Sources, Destination and Transformations(Asynchronous and synchronous, Blocking, Semi-Blocking and Non-Blocking)etc.
Variables, Parameters and Configurations	Variables Overview, types, and Scope
	Project and package parameters
	Using variables in control flow and data flow
	Using variables to pass information between packages
	Property expressions
	Configuration Overview, options, discipline and types (XML, SQL, Environment variables, parent package, registry editor etc.)
Debugging, Error Handling and Logging	Debugging overview
	Debugging in Control flow and Data flow using Breakpoint, Data viewer
	Error Handling in Control flow and Data flow using Event Handler, Precedence Constraint, Error

	Redirection etc.
	Transactions and Isolation Levels
	Configuring Package Logging (Notepad, XML, Window event, SQL etc.)
	Built-in log providers
Advanced Data Flow	Getting Fuzzy: The Fuzzy Lookup and Fuzzy Grouping Transformations
	Slowly Changing Dimension Transformation
Extending SSIS through Custom Code	Introduction to SSIS scripting
	SSIS script editor
	SSIS object model
	Script in Control flow: The Script Task
	Script in Data flow: The Script Component
	Introduction to SSIS component development
Package Deployment and Security	Configurations and deployment
	Deployment utility and options
	Package security
	Executing packages – DTExec and DTExecUI
Package Management	Managing packages with DTUtil
	Managing packages with SQL Server Management Studio Scheduling packages with SQL Server Agent
	SSIS Performance tuning

Module3: SQL Server Reporting Services:

Introduction	Need of SSRS and reporting tools
	Reporting Services Architecture
	Reporting Services Terminology
	Reporting Services Editions
Report Creation	Creating Reports from Scratch
	Data Sources & Data Sets(Shared and Embedded)
	Types of Reports (Drilldown, Sub Report, Drill through, Click through etc.)
	Reporting Controls (Tablix Reports, Matrix Reports, Charts, and Map Reports etc.)
Expressions and Formatting	Creating Expressions for business calculations
	Using the Global Collections
	Formatting Items
	Conditional Formatting
Grouping and Sorting	Creating Groups
	Calculating Totals and Percentages

	Interactive Sorting
Report Parameters and Dataset Filters	Need of SSRS parameters and filters
	Creating Report Parameters (Drop-Down, Multi-Valued, Cascading etc.)
	Creating Report filters
	Report Parameters passing to another reports
Deployment and Managing Reports	Deploying Reports and Data Sources
	Exporting Reports and Printing
	Using the Web-Based Report Manager
	Using SQL Server Management Studio-based Reporting Services Manager
	SSRS Deployment & Options
	SSRS Report Monitoring & Tuning
	Security Management & Roles
Snapshots and Subscriptions:	Caching and Snapshots
	Creating and Managing Standard and Data-Driven Subscriptions
Ad-Hoc Reporting with Report Builder	Report Builder Architecture and Configuration
	Creating Report Model Projects
	Running Report Builder

Trainer Profile

- Microsoft certified Professional with 9+ years of experience.
- Working professional working in multinational company as Technical Architect.
- Experience in Development of Microsoft Business Intelligence, Business Analytics, System Integration, Data Modelling, Data warehousing on various technical platforms
- Experience in different functional domains like financial investment & portfolio management, insurance & banking, health care, supply chain management domains.

Placement Assistance

- Help the trainee in the preparing of their RESUME as per current industry standards.
- Well connected with Hiring HRs in multinational companies.
- Conducts sessions including Group Discussions, Technical Mock Interviews, Presentation skills to prepare trainee to face challenging interview situation with ease.
- Guide throughout training period and even after completion for practical implementation of project.
- Provide support in live projects and any support will be provided till trainee joins new company for free.

Course Duration

- **SSAS**   – **8 Sessions (3 hrs.) and 4 Sessions (6 hrs.)**
- **SSIS**   – **8 Sessions (3 hrs.) and 4 Sessions (6 hrs.)**
- **SSRS**   – **4 Sessions (3 hrs.) and 2 Sessions (6 hrs.)**

Course Timing

- **Fast Track Training Program** (6+ hours on Saturday, Sunday & Holidays)
- **Weekend Training Classes** (3 hours Saturday, Sunday & Holidays)

Note: - Training on SQL Server 2012 and 2014 versions.