

## MSBI COURSE CONTENT

### **MICROSOFT SQL SERVER 2008 R2 REPORTING SERVICES**

- ❖ An Introduction to Reporting Services
- ❖ The role of SSRS in data warehousing/business intelligence
- ❖ Introduction to Business Intelligence Development Studio
- ❖ Creating Data sources and Datasets
- ❖ Creating Reports with Wizard
- ❖ Creating Basic reports
- ❖ Creating Tabular and Matrix reports
- ❖ Creating Parameterised reports
- ❖ Creating Sub Reports
- ❖ Creating Drill down and Drill through reports
- ❖ Creating Linked reports
- ❖ Creating Ad-Hoc reports Using report models
- ❖ Report Generation Using Cubes
- ❖ Creating Expressions
- ❖ Exporting Reports to different formats
- ❖ Usage of report Items like List, text boxes, charts, gauges, Image controls...
- ❖ UI designing and report Formatting
- ❖ Deploying reports
- ❖ Creating Normal and Datadriven subscriptions
- ❖ Reports Administration Using Report Manager
- ❖ Caching Reports and report Snapshots
- ❖ Report Security

### **MICROSOFT SQL SERVER 2008 R2 INTEGRATION SERVICES**

- ❖ Course Introduction
- ❖ SSIS definition
- ❖ The role of SSIS in data warehousing/business intelligence
- ❖ Solutions & Projects
- ❖ Packages & Package objects
- ❖ Control Flow
- ❖ Data Flow
- ❖ Workflow
- ❖ Extracting data
- ❖ Data sources & data source views
- ❖ Connection managers
- ❖ Full & incremental data extraction
- ❖ Dimension table & Fact table & Cube processing
- ❖ Package execution & management
- ❖ Debugging & event handling
- ❖ Package configurations and deployment
- ❖ ETL processing & SSIS ETL features
- ❖ All Tasks Explanation
- ❖ Security.

### **SQL SERVER**

- ❖ Introducing SQL Server 2008
- ❖ SQL Server Editions
- ❖ Installing SQL Server
- ❖ Basics of Database Design
- ❖ Normalization
- ❖ Denormalization
- ❖ Introducing SQL Server Management Studio

### **MICROSOFT SQL SERVER 2008 R2 REPORTING SERVICES**

- ❖ Business Intelligence overview
- ❖ An Introduction to Analysis Services (SSAS)
- ❖ The role of SSAS in data warehousing/business intelligence
- ❖ Difference between OLTP and OLAP databases
- ❖ Introduction to dimension tables \* fact tables
- ❖ Introduction to star and snow flake schemas
- ❖ Introduction to Datasources and Datasource views
- ❖ Introduction to multidimensional cubes
- ❖ Dimension design ,Cubes
- ❖ Attribute hierarchies ,Dimension Usage
- ❖ User hierarchies and drill-down
- ❖ Attribute relationships
- ❖ Types of Dimensions
- ❖ Calculations
- ❖ Actions (drill-through and reporting)
- ❖ Partitions and aggregation design
- ❖ Perspectives
- ❖ Administration
- ❖ Deployment
- ❖ Backing up and restoring cubes
- ❖ Slowly-changing dimensions
- ❖ Incremental updates
- ❖ Security

### **Cube Processing and Types of Processing.**

- ❖ Creating a Database
- ❖ Adding Tables
- ❖ Creating Indexes and Constraints
- ❖ Building Relations
- ❖ DDL and DML Syntaxes and usage
- ❖ SELECT queries
- ❖ The SELECT Clause
- ❖ The FROM Clause
- ❖ The WHERE Clause
- ❖ The ORDER BY Clause
- ❖ Using GROUP BY and HAVING
- ❖ Using TOP N and TOP N PERCENT
- ❖ UNION Queries
- ❖ Joins
- ❖ Indexes
- ❖ Functions
- ❖ Stored Procedures
- ❖ Views
- ❖ Triggers