

Workshop	
Name	SQL Server 2012 New Features for Business Intelligence
Duration	5 Days
Objective	SQL Server 2012 provides the foundation to the cloud-ready information platform and will help customers unlock breakthrough insights across the organization and quickly build solutions that extend data across on-premises and public cloud backed by capabilities for mission critical confidence. Participants will learn new features for Business Intelligence in SQL Server 2012.
Participants' Entry Profile	Participants attending this course must have: <ul style="list-style-type: none"> • Concepts of Relational Database Design & Implementation • Working Experience/Knowledge of SQL and TSQL. • Working Experience/Knowledge of SSIS, SSAS, SSRS • Working Experience/Knowledge of PowerPivot • Working Experience/Knowledge of SharePoint 2010 Basics
Training Methodology	The workshop will follow Synergetics methodology of Concept Visualization Active Experimentation Application Development. The workshop will be 100% Hands-On with each participant having access to system during the session

Setup Requirements	
Hardware and Software Requirements	Hardware Requirement- standalone installation Intel Core 2 Duo, 2 GB RAM 4 GB Free Hard Disk Space Software Requirement Operating Systems - Windows Server 2008 R2 SP1/Windows 7 SP1/Windows Server 2008 SP2/Windows Vista SP2. Microsoft IIS 7.x or above Internet Explorer 7.0 or above .Net FrameWork 3.5 SP1 Ms-Office 2010 Professional Plus PowerPivot for Excel Addin Master Data Services Excel Addin Visual Studio 2010 Microsoft SQL Server 2012 SP1 Report Builder 3.0 Microsoft SQL Server 2012 SQL Server Integration Services SQL Server Analysis Services SQL Server Reporting Services Master Data Services Data Quality Services
Training Lab Requirements	Whiteboard Recommended size - 6 feet by 4 feet Whiteboard markers – Red, Blue, Green, Black Video Projector (1024 X 768 resolutions)

Course Contents**Day 1****➤ Operating System Support and Prerequisites**

- Windows 7 & Windows Server 2008 R2
- Windows Server 2008 R2 Server Core
- Windows Vista and Windows Server 2008
- Windows XP & Windows Server 2003
- Windows ME, 98SE, 98 and 95
- All Operating Systems

➤ SSIS Enhancements

- Visual Studio 2010
- SSIS Designer Enhancements
 - Shared Connection Managers
 - Different style of Success/Failure Indicator
 - Script out from the GUI
 - Logging Level
 - Expression Indicator
 - Expression Limit Enhancement
 - New expression language functions
 - Change variable scope
 - Sort by name
 - Simplified Data Viewers
 - Expression Task
- Data Flow Enhancements
 - Column mappings
 - Flexible order of authoring
 - Groupings
 - Data Quality Services Cleansing transformation
 - Data Tap
 - Load files with multiple row formats
- Introduction to Parameters
 - What is Parameters
 - Advantages of using Parameters
 - Type of parameters
 - Parameterize the Task

Day 2

- Introduction to Environments
 - What is Environments
 - Advantages of Environments
- New Deployment options
 - Introduction to Deployment Life Cycle
 - Deploy from BIDS

- Introduction to Integration Services Project Deployment File
- Management Enhancements
 - The new SSIS Server
 - SSISDB
 - SSIS Stored Procedures
 - OOTB Reporting Dashboard
- Migrating SSIS Projects to Denali
 - Migration Considerations
 - Understanding Migration Process
 - The Integration Services Project Conversion Wizard
 - SSIS Package Upgrade Wizard
 - Using Integration Services Project Conversion Wizard from BIDS
 - Using Integration Services Project Conversion Wizard from SSMS
 - Using SSIS Package Upgrade Wizard

Day 3➤ **SSAS Enhancements**

- **Server Instance and Server Monitoring**
 - VertiPaq Engine for Tabular Model Databases
 - Schema Rowsets for Analysis Services in VertiPaq Mode and Tabular Models
 - Event Tracing Infrastructure
- **Tabular Modeling**
 - Author Tabular Models in Business Intelligence Development Studio
 - Tabular Model Designer Diagram View
 - Partitions in Tabular Models
 - Security Roles in Tabular Models
 - Row Level Security in Tabular Models
 - Key Performance Indicators in Tabular Models
 - Hierarchies in Tabular Models
 - DirectQuery Mode
 - Memory Paging in Tabular Models
 - New DAX Functions
 - Administer a Tabular Model Database in SQL Server Management Studio
 - Support for images

Day 4

- **Multidimensional Modeling**
 - Scalable String Storage for MOLAP Engine
 - Support for Large Tables
- **PowerPivot for Excel**
 - New Version of PowerPivot for Excel in SQL Server code-named 'Denali'
 - New DAX Functions
- **PowerPivot for SharePoint(Overview Only)**
 - PowerPivot Configuration Tool
 - PowerShell for PowerPivot for SharePoint

- BISM Connection Files in SharePoint
- More Configuration Settings and Server Health Rules for PowerPivot for SharePoint

- **Programmability**
 - PowerShell for AMO
 - Extensions to AMO and XMLA to Support Tabular Modeling
 - CSDL Extensions to Support Tabular Modeling

Day 5

➤ **SSRS Enhancements**

- Introduction to Self Service Reporting
- Introduction to Project Crescent
- Creating and Saving Project Crescent Reports in SharePoint
- Project Crescent Design Experience - Demo
- Data Visualizations in Project Crescent
- Filtering, Highlighting, and Slicers in Project Crescent
- Self Service Alerting
- SharePoint Mode Enhancements
- Data Alerts
- New Word and Excel Rendering Extension
- Upgrade/Migration Considerations
- Upgrading Editions and Versions
- Known Upgrade Issues
- Pre-upgrade Checklist
- Upgrade Workflow

➤ **Master Data Services – Introduction**

- Creating Models and Managing Master Data using Excel Add-in

➤ **Data Quality Services – Introduction**

- Knowledge Base management
- Data Quality Project