

MSBI:

Microsoft Business Intelligence (MSBI) is a powerful suite of Data Integration, Data Reporting and Information Analysis. MSBI applications are often used efficiently by any business or enterprise for data discovery, data collaboration and usage management capabilities with the backdrop of SQL Server.

Microsoft provides a complete set of business intelligence tools as part of the Microsoft SQL Server, Share point, and Office applications. For enterprises that have embraced Microsoft technologies, the Microsoft BI stack is a logical extension to those systems. Microsoft has products for data integration (SSIS), analytics (SSAS), business intelligence (SSRS), and visualization

Key Features:

- Business Intelligence Solution
- Custom reporting solutions
- Data transformation solutions

What are SSAS, SSIS, and SSRS?

- Microsoft SQL Server provides many tools to manage and utilize your data. SSAS is Microsoft SQL Server's Analysis Services which an online analytical processing (OLAP), data processing and reporting tool utilized in Business Intelligence to make your data work for you.

- SSIS stands for SQL Server Integration Services. The key power of SSIS is its data transformation and migration capability. When building a data warehouse or a data mart, the data needs to be extracted out of the various different transactional Systems and flat files, transformed and loaded to where it can then be analyzed and reported on. The data extraction, transformation and loading is known as ETL and is a common term in data migration and Business Intelligence.
- SSRS stands for SQL Server Reporting Services. Once data is in its final state, either in the native transactional system or transformed into a data mart or data warehouse, SSRS provides the tools necessary to create reports to better understand your data. These three tools are often used together to support your data analysis needs and come part of Microsoft SQL Server.

Course Content:

SQL Server 2008 Examination Services

- What Is Microsoft BI?
- Core idea – BI is the 3D square or UDM
- Example 3D square as observed utilizing Exceed expectations turn table
- MS BI is exhaustive – more than Examination Administrations on SQL Server
- Demonstration of SQL Revealing Administrations with 3D square as information source

- OLAP Displaying
- Modelling source diagrams—stars and snowflakes
- Understanding dimensional displaying—Measurements (Type 1, 2, or 3) or quickly evolving
- Understanding actuality (measures) and solid shape displaying
- Other kinds of displaying—information mining and so forth...
- Using SSAS in Offers
- Understanding the improvement condition
- Creating Information Sources and Information Source Perspectives
- Creating solid shapes – utilizing the UDM and the 3D shape Assemble Wizard
- Refining Measurements and Measures in Offers
- Intermediate SSAS
- KPIs
- Perspectives
- Translations – solid shape metadata and money restriction
- Actions – customary, drill-through and detailing
- Advanced SSAS

Using numerous reality tables:

- Modelling middle of the road truth tables
- Modelling M:M measurements, Actuality (degenerate) measurements, Pretending measurements, compose back measurements
- Modelling changing measurements – Measurement Knowledge w/Wizard
- Using the Include Business Knowledge Wizards – compose back, semi-added substance measures, time insight, account knowledge
- Cube Stockpiling and Collection
- Storage themes – fundamental collections, MOLAP
- Advanced Stockpiling Structure – MOLAP, ROLAP, HOLAP
- Partitions – social and Examination Administrations parcels
- Customizing Accumulation Structure – Preparing Plan
- Rapidly changing measurements/ROLAP measurements
- Welcome to the Constant – Proactive Reserving
- Cube preparing alternatives
- Beginning MDX
- Basic grammar
- Using the MDX question editorial manager in SQL Server The executives Studio

- Most-utilized Capacities and Regular assignments
- New MDX capacities
- Intermediate MDX
- Adding determined individuals
- Adding contents
- Adding named sets
- .NET Gatherings
- SSAS Organization
- Best rehearses – wellbeing checking
- XMLA scripting (SQL Mgmt. Studio)
- Other Documentation strategies
- Security – jobs and consents
- Disaster Recuperation – reinforcement/re-establish
- Clustering – high accessibility
- Introduction to Information Mining
- What and why?
- Examples of utilizing every one of the 9 calculations (MS Grouping, MS Choice Trees, Gullible Bayes, MS

- Sequence Bunching, MS Time Arrangement, MS Affiliation Rules, MS Neural System)
- Data Mining measurements
- Data Mining customers
- Processing mining models
- Introduction to Detailing Customers
- Excel 2003 Rotate Tables
- SQL RS and Report Manufacturer
- SPS RS web parts and .NET
- o report watcher controls
- Business Scorecards 2005 and ProClarity
- Future Bearings – Incorporation with Office 12

SharePoint 12 and AS:

- Report Center (sort of dashboard) utilizes KPIs, Reports, Exceed expectations Web, Channel
- Excel Administrations 12 and AS (Web Administrations)
- SQL Server 2005 Combination Administrations
- Introduction to SQL Server Mix Administrations

- Product History
- SSIS Bundle Design Review
- Development and The board Instruments
- Deploying and Overseeing SSIS Bundles
- Source Control for SSIS Bundles
- SSIS for DBAs: Utilizing SQL Server The executives Studio

The Import and Fare Wizard:

- Importing and Sending out Information
- Working with Bundles
- Database Upkeep Plans
- Creating Database Support Plans utilizing SSMS
- Scheduling and Executing Plans
- Examining Database Upkeep Plan Bundles
- Changes in SQL Server 2005 Help Pack 2
- Business Knowledge Advancement Studio

Launching BIDS:

- Project formats

- The bundle planner
- The Tool kit
- Solution Voyager
- The Properties window
- The Factors window
- The SSIS menu

Introduction to Control Flow:

- Control Stream Diagram
- Precedence Imperatives
- The Execute SQL Undertaking
- The Mass Supplement Assignment
- The Record Framework Assignment
- The FTP Undertaking
- The Send Letters Undertaking
- Advanced Control Stream

Containers – gathering and looping:

- The Web Administration Undertaking

- The WMI assignments
- The Examination Administrations undertakings
- The Execute Procedure Assignment
- The Execute Bundle Assignment

Introduction to Information Flow:

- Data Stream Outline
- Data Sources
- Data Goals
- Data Changes
- The Duplicate Section Change
- The Inferred Section Change
- The Information Change
- The Contingent Split Change
- The Total Change
- The Sort Change
- Data Watchers
- Variables and Arrangements

Variables Overview:

- Variable extension
- SSIS framework factors
- Using factors in charge stream
- Using factors in information stream
- Using factors to pass data between bundles
- Property articulations
- Configuration Diagram
- Configuration choices
- Configuration discipline
- Debugging, Mistake Dealing with and Logging

SSIS investigating overview:

- Breakpoints in SSIS
- SSIS investigating windows
- Control Stream: The OnError occasion handler
- Data Stream: Mistake information stream
- Configuring Bundle Logging

- Built-in log suppliers
- Advanced Information Stream
- Revisiting information sources and goals
- The Query Change
- Getting Fluffy: The Fluffy Query and Fluffy Gathering Changes
- The Multicast Change
- The Consolidation and Union Join Changes
- The Information Mining Question Change
- The Information Mining Model Preparing Goal
- The Gradually Changing Measurement Change
- Extending SSIS through Custom Code

[Introduction to SSIS scripting:](#)

- The SSIS content supervisor
- The SSIS object model
- Script in Control stream: The Content Errand
- Script in Information stream: The Content Segment
- Introduction to SSIS segment advancement
- SSIS Bundle Organization

Configurations and deployment:

- The organization utility
- Deployment choices
- Deployment security
- Executing bundles – DTExec and DTExecUI
- SSIS Bundle The executives

The SSIS Service:

- Managing bundles with DTUtil
- Managing bundles with SQL Server The executives Studio Planning bundles with SQL Server Specialist
- SQL Server 2005 Revealing Administrations

Introduction to SQL Server Revealing Services:

Tour of Features:

- Reporting Administrations Engineering
- Reporting Administrations Phrasing
- Reporting Administrations Releases

- Taking Revealing Administrations for a Turn
- Creating Reports
- Deconstructing Revealing Administrations
- Shared Information Sources
- Creating Reports Without any preparation
- Calculations and Designing
- Creating Articulations
- Using the Worldwide Assortments
- Formatting Things
- Conditional Designing
- Grouping and Arranging
- Creating Gatherings
- Calculating Sums and Rates
- Interactive Arranging
- Creating Drill-Down Reports
- Report Parameters
- Creating Report Parameters
- Creating Drop-Down Parameters

- Multi-Esteemed Parameters
- Debugging Parameter Issues
- Creating Network Reports and Outlines
- Creating an Essential Grid Report
- Matrix Subtotals
- Creating an Essential Outline
- Exploring the Outlining Conceivable outcomes
- Managing Detailing Administrations
- Deploying Reports and Information Sources
- Exporting Reports and Printing
- Using the Electronic Report Chief
- Using SQL Server The executives Studio-based Revealing Administrations
Administrator
- Reporting Administrations Security
- Two Parts to Revealing Administrations Security
- Securing Access to Reports
- Data Source Security
- Programming Revealing Administrations



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- The Many Revealing Administrations APIs
- Integrating Detailing Administrations into Applications utilizing URL Access
- Using the Report Watcher Controls
- Advanced Announcing Administrations Programming
- Using the Announcing Administrations Web Administration
- Working with Custom Gatherings
- Snapshots and Memberships
- Caching and Previews
- Creating Standard Memberships
- Creating Information Driven Memberships
- Managing Memberships
- Ad-Hoc Announcing with Report Developer
- The Report Manufacturer Design
- Creating Report Model Undertakings
- Running Report Manufacturer



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