

Microsoft Business Intelligence (MSBI : SSIS, SSAS, SSRS)

Classroom Training

Complete Practical & Real-time Training Sessions



A Unit of SequelGate Innovative Technologies Pvt. Ltd.

→ ISO Certified Training Institute

→ Microsoft Certified Partner

Training Highlights

- ✓ Complete Practical and Real-time Scenarios
- ✓ Session wise Material and Practice Labs
- ✓ Session wise Notes & Doubts Clarifications
- ✓ Certification Material & Resume Preparation
- ✓ 24x7 LIVE Server Access with Real-time Databases
- ✓ Interview Preparation and Guidance
- ✓ Technical Support and Placements Assistance
- ✓ One Real-time Project and FAQs with Answers
- ✓ Mock Interview and Course Completion Certificate

All Training Sessions are Completely Practical & Real-time

Every session includes Study Material and Practice Material. **Course includes ONE Real-time Project.**

SQL School (SequelGate Innovative Technologies Pvt. Ltd.), #108/2RT, Street No 2, Road No 1,
Landmark :Beside SR Nagar Bus Stop, SR Nagar, Hyderabad - 38, India.

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Module 1: SQL SERVER INTEGRATION SERVICES

All Our Training Sessions are COMPLETELY PRACTICAL & REALTIME with Hands-On Lab.

Chapter 1: SSIS INTRODUCTION, TOOL INSTALLATION

- ✓ Need for SQL Server Integration Services & ETL / DWH
- ✓ Advantages of SSIS for Data Loads, ETL, Data Warehouse
- ✓ SSIS Tools : SSDT (SQL Server Data Tools), ETL Wizards
- ✓ SSIS Design / Development and LIVE (Deployment)
- ✓ Understanding Data Warehouse (DWH) Design and ETL
- ✓ DWH and ETL Structures, Implementations with MSBI SSIS
- ✓ SSIS ETL Operations for Data Reads, Data Cleansing, DWH
- ✓ Data Warehouse (DWH) Design Principles and Design Plan
- ✓ Installing SSIS Databases For SQL Server 2016 and 2014
- ✓ SSIS Catalog DB Encryptions & CLR / Startup Configurations
- ✓ SSIS Database and Catalog Folders - Usage, Passwords
- ✓ SSIS Configuration Options and Encryption Options
- ✓ SSIS Catalog Database (SSIS DB) : Creation, Verification
- ✓ SQL Server Data Tools - SSDT / Visual Studio Shell
- ✓ SSDT 2015 Installation and Verification of SSIS Templates
- ✓ SSDT 2013 Installation and Verification of SSIS Templates
- ✓ SSIS Developer Environment (SSDT) Interface
- ✓ Basic Vocabulary - SSIS, ETL, DWH, Data Flow, Data Buffer
- ✓ SSIS Package Environment and SSDT Project Creation
- ✓ SSIS Solutions and Project Templates - Verifications
- ✓ Version Control Options and SSIS Design Plan.
- ✓ SSIS Online Training - Lab Plan, Resources & Databases

Chapter 8: CHANGE DATA CAPTURE For DWH

- ✓ DML Audits using Change Data Capture (SQL Server)
- ✓ CDC Tables with SQL Server Connections
- ✓ DML Audits: Inserts, Deletes, before/after Updates
- ✓ CDC Source Connections - Usage, ADO.NET Integration
- ✓ CDC Control Flow Tasks and CDC State Tasks. Values
- ✓ INITIAL LOAD START/END. PROCESSING RANGE MARKS
- ✓ Using State Variables and Controls. Storing States
- ✓ SSIS CDC Connections with Net Changes, Variables
- ✓ Understanding State Variables and Logging Tables
- ✓ Initial Data Load Packages for Dimension Tables
- ✓ Incremental Data Load Packages for Dimension Tables
- ✓ Dynamic CDC Connections and Data Load Options
- ✓ OLE DB Commands and Data Warehouse Updates
- ✓ Working with Internal Parameters and Usage Options
- ✓ Parameter Mapping For Updates in ETL Type1, Type2
- ✓ Integrating Control Flow and Data Flow for CDC @ ETL
- ✓ CDC Splitter Transformation - Row Inserts and Updates
- ✓ CDC Splitter Precautions, Input Types, Output Range
- ✓ Derived Column Transformations with CDC
- ✓ Limitations of ADO.NET Connections and CDC Process
- ✓ Conditional Precedence Constraints for Dim Tables
- ✓ Custom Code Handling with .NET Script in DWH

Chapter 2: SSIS: EXTRACT, TRANSFORM - LOAD (ETL)

- ✓ Control Flow Tasks - Architecture, Purpose and Usage
- ✓ Data Flow Tasks - Architecture, Purpose and Usage
- ✓ Creating SSIS Packages For Basic Data Flow Operations
- ✓ SSIS Solutions, Projects and Package Creation. Tasks
- ✓ Need For Data Pipelines & Connections in Data Flow Tasks
- ✓ Understanding SSIS Package (Program) Execution Process
- ✓ Working with Data Flow Objects & Tasks in SSIS
- ✓ Basic Data Extraction Drivers / Providers with Data Flow
- ✓ Using OLE DB and SQL Server Connections - Usage
- ✓ SSIS Package Creation Process - Using Control Flow Items
- ✓ SSPI Interface Connections, Data Source, Initial Catalog
- ✓ Connection Management Interface, Execution Interface
- ✓ Using DTSX Files for SSIS Package Execution. Audits
- ✓ SSIS Execution Context, SSIS Package Errors and Logs
- ✓ Data Flow Transformation: Conditional Split, Expressions
- ✓ Excel Connections, Sheets, & Memory References - Usage
- ✓ Using Source Assistants, Destination Assistants @ SSIS
- ✓ DAT File Imports, Data Flow Options, Adding Annotations
- ✓ Common SSIS Package Errors & Solutions in Real-time

Chapter 9: MASTER - CHILD PACKAGES

- ✓ Parent - Child Package Design in SSIS, Options
- ✓ Master Packages in SSIS - Configuration, Usage
- ✓ Child Packages in SSIS - Configuration, Usage
- ✓ Connection Parameters in SSIS - Data Types, Scope
- ✓ Defining Local and Global Variables/Parameters
- ✓ Local Connections - Package Level. Conventions
- ✓ Global Connections - Project Level. Conventions
- ✓ Package to Project Connection Conversion. Reusability
- ✓ Package Parameters - Scope, Data Types and Defaults
- ✓ Project Parameters - Scope, Data Types and Defaults
- ✓ Parameter Bindings with Parent - Child Packages in SSIS
- ✓ Using Execute Package Control Flow Tasks, Options
- ✓ Conditional Data Loads (ETL) and Fact Table Design
- ✓ Fact Loads, Dimensions with CDC Transformation
- ✓ ETL Techniques for Dimension Loads in DWH
- ✓ Data Delta, Data Loads with SSIS Expressions
- ✓ SQL Server and ADO Connections with Data Adapters
- ✓ Derived Columns & Data Conversions Transformations
- ✓ SSIS Logging and SSIS Event Handling Options

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- ✓ SSIS Project Configuration Options - Debugging, Bit Config
- ✓ SSIS Build & Version Control Options. Naming Conventions
- ✓ SSIS 64 Bit and 32 Bit Configuration Settings and Options
- ✓ Error Outputs and Error Row Redirections in Data Flow

- ✓ Limitations of Data Viewer, Scripting Flexibility
- ✓ Reading Row Level Errors using .NET, Examples
- ✓ SSIS Package Configurations and Options
- ✓ Execute Out Of Process options, Performance Impact

Chapter 3: SSIS FAST LOADS, MERGE, CONVERSIONS

- ✓ Understanding ETL and DWH Implementations
- ✓ Kimball Method of BI Design and Keys Concepts
- ✓ Bulk Load Operations and Data Import Options in SSIS
- ✓ Bypass Prepare and Execution Options with SQL Task
- ✓ Historical Data Loads and Incremental Updates
- ✓ Debugging Controls in SSIS - Variants and Limitations
- ✓ Data Flow Debugging Controls and Data Viewer Options
- ✓ Synchronous, Asynchronous Transformations, Data Loads
- ✓ Row and Partial Blocking Transformations. Buffer Reuse
- ✓ Fully Blocking Transformations - Buffer Reuse Restrictions
- ✓ Examples to Avoid Fully Blocking Transformation in SSIS
- ✓ MERGE Transformation and UNION ALL Transformation
- ✓ SORT Transformation, NOSORT Options, Advanced Sort
- ✓ Data Conversion Transformation, SSIS Expressions
- ✓ Data Flow Tuning with Query Locks and Performance
- ✓ Tuning Data Flow Tasks with Fast Loads Options (OLE DB)
- ✓ Fast Load Options for Data Flow in OLE DB Connections
- ✓ Tabular Data Stream (TDS) Packet Sizing and Tuning
- ✓ SSIS Package Tuning with Row Size Calculations, Batches
- ✓ Rows Per Batch Calculations - Variants, Commit Size
- ✓ Transactions and Batch Scoped Data Loads in SSIS
- ✓ Comparing Regular Loads and Fast loads in ETL / DW

Chapter 10: XML CONNECTIONS & LOOPS

- ✓ System.Data.SqlClient Managed Providers: Usage
- ✓ Dynamic Connections and Loops with SSIS Expressions
- ✓ SSIS Expressions with Variables For File Specifications
- ✓ For Each Expressions - Dynamic File Types, Directories
- ✓ Variable Mapping with Indexed Connections
- ✓ XML Connections & Reading, Operating XML Data
- ✓ OLE DB Connections with SQL Native Client (SNAC)
- ✓ ODS Connection Files, Reusability Options (Dynamic)
- ✓ Advanced Options - XML, DT_NTEXT Stream
- ✓ XML Queries @ Sub Queries. XML Data Imports
- ✓ RAW Files - DTSPipeline Wrapper & RAW Adapters
- ✓ Row Sampling and Percentage Sampling Options
- ✓ SSIS Logging - Text Files and sysssislog Tables @ Audits
- ✓ Package Logging and Container Events for Execution
- ✓ SSIS Logging Options and Connections. Verifications
- ✓ SSIS Data Profiler Tool, ADO.NET Connections and XML
- ✓ SQL Data Profile Viewer Tool - Usage with XML Files
- ✓ Nullability Checks and Fast Load Options @ Row Size
- ✓ ADO.NET Connections for SQL Profiler Tool, Options
- ✓ Time-Out Options for Quick Profile, Candidate Keys
- ✓ Value and Length Distribution, Surrogate Key Detection
- ✓ XML File Imports for SQL Profiler Viewer Tool, Options

Chapter 4: PIVOT, FUZZY LOOKUP, DATA CLEANSING

- ✓ Importing Legacy Data, Data Cleansing & Data Formatting
- ✓ Understanding Denormalization and Keys Concepts
- ✓ PIVOT Transformation, Data Reads, Connection Assistant
- ✓ Pivot Values - Purpose and Implementation. Key Values
- ✓ Lineage ID in SSIS - Purpose, Usage and Data Mappings
- ✓ SSIS Input Columns, Mappings and Source Column Values
- ✓ Data Exchange Operations with Pivot Keys and Values
- ✓ Data Viewer (Debugging) for Data Transfer Verifications
- ✓ Fuzzy Lookup Transformation, Reference Tables, Columns
- ✓ Exact, Fuzzy and Data Cleansing using Conditional Split
- ✓ Index Creation, Maintenance for Faster Lookups
- ✓ Threshold Values Selection, Search Delimiters and Options
- ✓ Data Pipeline with _Similarity & _Confidence Columns
- ✓ Data Conversion Transformation. Using NVARCHAR Data
- ✓ Explicit Data Type Conversions and Error Redirections
- ✓ For Each Loop Container Usage. File Level Connections
- ✓ Defining Variables for Connections. DFT and Control Flow
- ✓ Connection Iterations, Connection Fetch - Index Mapping
- ✓ Connection String Expressions with Package Variables

Chapter 11: SSIS CUSTOMIZATIONS WITH .NET

- ✓ Script Task - Purpose and Working in SSIS Control Flow
- ✓ Script Task with VB.NET Programs. Compilations
- ✓ Script Task with C#.NET Programs. Compilations
- ✓ Variables and Parameters with SSIS Script Task. Usage
- ✓ Read Only and Read Write Variables. Expressions
- ✓ Namespace Options, Customizations : System.IO, DTS
- ✓ VB.NET, C#.NET Scripting Programs with Parameters
- ✓ Data Flow Limitations : Solutions with .NET Scripting
- ✓ SSIS Expressions and Package Debugging, Break Points
- ✓ SSIS Packages for Database Migrations - Online/Offline
- ✓ Database Copy and Move Options. Pre, Post Migrations
- ✓ Performing SQL Server and DB Object Operations
- ✓ SQL Server Maintenance @ SSIS, DB Health Checks
- ✓ Understanding Control Flow - Sequence Containers
- ✓ Using Control Flow File System Tasks and Limitations
- ✓ Using .Net Scripting for SQL Server Data Reads/Writes
- ✓ SQLDataAdapters & System.Data.SqlClient
- ✓ Adding DTS Packages to SSIS Projects (Data Tools)
- ✓ Package Refresh Options, Package Upgrade Properties

<ul style="list-style-type: none"> ✓ SSIS Package Audits for Dynamic Connections, Precautions ✓ Identity_Insert, Table Locks and Constraints in ETL ✓ Text Qualifiers and Data Loads with Flat File Sources (.dat) 	<ul style="list-style-type: none"> ✓ SSIS Configurations and Usage. Dynamic Connections ✓ Using Variables and Parameters for SSIS Script Task ✓ SSIS Package/Project Conversions - Process Options
<p>Chapter 5: ETL DWH DATA LOADS: SCD TYPE 1, TYPE 2</p> <ul style="list-style-type: none"> ✓ A Sales Scenario for OLTP Database to Historical Loads ✓ Introduction to Data Warehouse (DWH) - Purpose, Usage ✓ Technical Terms: Dimensions, Attributes, Members, Types ✓ Dimension Tables, Fact Tables & Inferred Members ✓ TYPE1 and TYPE2 - ETL Implementation Techniques ✓ Implementing Type I Changes (SCD) for DWH - Modeling ✓ Dimensional Table Design for DWH using SCD - Type 1 ✓ Dimensional Table Design for DWH using SCD - Type 2 ✓ Data Loads with Legacy Files (DAT, TXT, CSV), Data Marts ✓ Business Keys and non Identity Key Based Columns ✓ Surrogate Keys and Alternate Business Keys -, Usage ✓ Identity Columns & Key Values in DWH. Business Key ✓ Cascading Source OLTP / Stage Changes to DWH Data ✓ Changes to Fixed Attributes and Changing Attributes ✓ Changes to Historical Attributes. Inferred Member Updates ✓ ETL Date Fields, Row Status Values and Transformations ✓ Naming Conventions For SSIS Entities, Options, Reusability ✓ Dimensions for DW - Incremental and Historical Loads ✓ Understanding OLE DB Connections for Incremental Loads ✓ Identity Property and Attribute Key Types in SCD ✓ Historical Attributes & Data Delta Operation Identification ✓ SSIS Connection Assistants - Advantages, Package Reuse ✓ SSIS SCD Transformation Limitations and Real-time Issues ✓ Need for Other DWH Techniques for Dimension Design 	<p>Chapter 12: FACT TABLE DESIGN, FACT LOADS</p> <ul style="list-style-type: none"> ✓ Fact Table - Design and Implementations, ER Model ✓ Fact Table Design with STAR and SNOWFLAKE Schemas ✓ Time Dimensions - Purpose, Usage and ETL Date / Time ✓ Generating Time Dimensions for ETL, Identifications ✓ Linking Time Dimensions to Fact Loads, Lookups ✓ Caching Options in Dimension Loads, Key Lookups ✓ Parent-Child Packages for DWH Loads, Control Flow ✓ Parent-Child Packages for Fact Table Loads, ETL ✓ Master Package: Dimension, Fact Load Integration ✓ Inferred Members and Status for NULLs in Dimensions ✓ SCD Wizard for Multiple Dimensions and Fact Tables. ✓ Parameter Mapping for ETL, Component Properties ✓ ETL Load Date IDs & Expressions for Dimension Keys ✓ Error Handling & Event Handling with Master Packages ✓ Text Qualifiers and Data Loads with Flat File Sources ✓ Project Connections, Parameters in Master-Child ✓ Key Based LOOKUPS and Indexes. Fast Loads ✓ SCD Implementations with Legacy Data. ETL Loads ✓ Fact Load Design for Initial Loads, Incremental Updates ✓ End-to-End Data Warehouse Design: Implementation ✓ Data Loads and Data Stage Operations for DWH DBs ✓ Advantages of SSIS ETL/DWH Concepts. Precautions. ✓ Column Statistics and Values for DWH Design Planning ✓ STAR & SNOWFLAKE Schemas in DWH - Data Modelling
<p>Chapter 6: CHECKPOINTS, TRANSACTIONS, EXECUTE SQL</p> <ul style="list-style-type: none"> ✓ Understanding Scripts for SSIS Control Flow. SQL Tasks ✓ Execute SQL Task and OLE DB Queries - Connections ✓ Transaction Options For SSIS Executables - Package Level ✓ Precedence Constraints - Success / Failure / Completion ✓ Parallel and Sequential Task Executions. Options, Usability ✓ SSIS Package Level Rollbacks and Restart Executions ✓ SSIS Checkpoints - Purpose & Usage with Data Flow Tasks ✓ Checkpoint Files and SSIS Logging Options - Package, Tasks ✓ Transactions with Checkpoint File Usage in SSIS Packages ✓ Checkpoint Options - Advantages, Usage and Limitations ✓ SSIS Variables - Creation, Usage in ETL Data Flow Scripts ✓ Working with Static and Dynamic Variables. Usage Options ✓ Containers in SSIS. Usage & Advantages. Properties ✓ SSIS Events - Validation, Execution and Clean Up Events ✓ SSIS Package Level Parameters and Properties ✓ SSIS Project Level Parameters: Connection Options, Usage ✓ SSIS Expressions, Default Values, Data Types in Parameters ✓ Linking Parameters and Variables with Expression Values 	<p>Chapter 13: SSIS DEPLOYMENTS and SECURITY</p> <ul style="list-style-type: none"> ✓ Online and Offline Deployments with ISPAK Files ✓ SSIS Project Deployment Wizard : Targets and Logging ✓ SSIS Package Builds, Verification Techniques, Scripts ✓ SSIS Package Store, Catalog Folders and Deployments ✓ Package Executions, Validation Messages, Options ✓ SSIS Package Security Management - SSISDB Roles ✓ Security Logins, SSISDatabase Users and ssisadmin ✓ Understanding Folder and Project Level Security Roles ✓ Execute/Write/Folder Security Content Management ✓ Project Migration Utilities in SSIS, Conversion Options ✓ Importing ISPAK Files, SSIS Projects. Re- Engineering ✓ Command-Line Deployments For SSIS, Executions ✓ Scheduling SSIS Packages (Jobs) and DB Mail Operators ✓ Upgrading SSIS 2012 Packages to SSIS 2014 Catalog DB ✓ Upgrading SSIS 2012 Packages to SSIS 2016 Catalog DB ✓ Package Deployment: SSIS 2016 New Features ✓ Package Deployment Versus Project Deployment s ✓ Version Controls - Project Exports and Imports

- ✓ SSIS Parameters For Dynamic Package Executions
- ✓ Dynamic Connection Managers - Precedence Constraints
- ✓ FailPackageOnFailure Options and Checkpoint Property
- ✓ Transactions: REQUIRED / SUPPORT, NOTSUPPORTED
- ✓ Transaction Property Versus CHECKPOINT Files, Usage

- ✓ SSIS Enumerations and Dynamic Connection Loads
- ✓ Control Loops and Indexed Connections. Precautions
- ✓ SSIS Data Profiler Tool, ADO.NET Connections and XML
- ✓ Advantages of SSIS ETL/DW Procedures and Audits
- ✓ Using non-Microsoft Transformations : Precautions

Chapter 7: CHECKSUM TRANSFORMATION @ DWH

- ✓ Need for Checksum Transformation in ETL Data Loads
- ✓ Configuring Checksum Transformation : 2014, 2016
- ✓ Checksum Transformation Logic and Parity Checks (CRC)
- ✓ Working with CHECKSUM Transformation and Parity Bits
- ✓ Generating Checksum Values For Type I, Type II ETL
- ✓ Planning DWH Dimensions With Checksum Transformation
- ✓ Parity Bits & Conditional Lookup Transformation
- ✓ Row Redirection Options & Lookup Match, NonMatch
- ✓ OLE DB Command: SQL Statements and Input Parameters
- ✓ Parameter Mapping and Dynamic SQL for Row Updates
- ✓ Cache Transformation with Memory Loads, CAW Files (VM)
- ✓ Memory Connections and Reuse. Lookup with Cache
- ✓ Tuning Lookup Transformation: Caching Options, Indexes
- ✓ FULL CACHE : Usage Options. NO CACHE: Usage Options
- ✓ PARTIAL CACHE : Precautions. Data Splits, Fast Loads
- ✓ Cache Connection Manager Issues and Tuning @ ETL
- ✓ Pre-ETL Data Load Operations with Memory Connections
- ✓ Lookup with NOCACHE. Advantages and Precautions
- ✓ Understanding Dependent Data Flow Tasks and Usage
- ✓ Post ETL, Derived Column and Fuzzy Transformations
- ✓ SSIS Package Internal Parameters and Query Updates
- ✓ OLEDB Command @ Conditional Splits, Multi Row Updates

Chapter 14: REAL-TIME PROJECT

Real-time Project for MSBI SSIS

ECommerce Domain: STAR, SNOWFLAKE

ETL Implementations for DWH. Fast Loads
Dimension Tables, Fact Tables, Parameters
Builds, ISPAC Files.

Package & Project Deployments

Security. Scripts. Utilities, Project Conversions

End-to-End Implementation of ETI & DWH

New Features in SSIS 2016

WHERE SPACERED and Other 3rd Party Tools
Resume Preparation
Mock Interview

Module 2: SQL SERVER ANALYSIS SERVICES

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Session 1: INTRODUCTION TO SSAS & CONFIGURATION

- ✓ Installation & Configuration: SSAS 2014, 2016
- ✓ Need for SSAS Component & Tools - Modes
- ✓ Multidimensional Mode: Purpose, Properties, Usage
- ✓ Tabular Mode: Purpose, Properties, Usage (ROLAP)
- ✓ Power Pivot Mode: Purpose, Properties (Overview)
- ✓ Configuring Multidimensional Mode Instances
- ✓ Configuring Tabular Modes Instances and Tests
- ✓ Understanding Multidimensional Databases (OLAP)
- ✓ SSAS Service Accounts & Usage. SQL Browser
- ✓ SSDT Tool: SQL Server Data Tools – SSDT / VS
- ✓ SSDT 2015 Installation and SSAS Templates
- ✓ SSDT 2013 Installation and SSAS Templates
- ✓ SSAS Developer Environment (SSDT) Interface
- ✓ SSAS Training - Lab Plan, Resources & Databases
- ✓ OLAP DB Introduction: Measure Groups, Measures
- ✓ Attributes, Hierarchy Levels and Members. Cube
- ✓ Need for MDX Language: Queries and Expressions

Video 2: BASIC CUBE DESIGN WITH SSAS, EXCEL

- ✓ Identifying Analysis Entities in OLAP Database
- ✓ Need for OLAP Databases and Cubes @ Analysis
- ✓ Implementing Kimball & Inmon Methods Of BI –
- ✓ A Real-world Sales Scenario - Cube Design
- ✓ Analysis Requirements & Entities – Measures
- ✓ Basic SSAS Entities: Sources, Destinations
- ✓ Data Source, Data Source View, Cube Designer
- ✓ Dimension Wizard and Attributes. DEPLOYMENT
- ✓ PROCESS of OLAP Cube. Online Deployment
- ✓ Cube Browsing using SSMS & ADOMD Client
- ✓ Excel Connections for SSAS DBs & Cube Access
- ✓ Excel PIVOT Tables and Basic Chart Report
- ✓ Pie-chart Reports and Attribute Filters. Usage
- ✓ Microsoft Excel for OLAP Cube Access Filters
- ✓ Common Deployment Errors : Logon Failures
- ✓ Impersonation Account - NT AUTHORITY Account
- ✓ End to End Implementation- Basic Example

Video 3: CUBE DESIGN: ATTRIBUTES and HIERARCHIES

- ✓ Cube Design with Attributes, Keys and Relations
- ✓ Data Source View : Entities, Relations and Filters
- ✓ Database Dimensions : Identification and Purpose
- ✓ Cube Dimensions : Identification and Purpose
- ✓ Connection Strings for SQL Server Data Sources
- ✓ Named Queries & Calculations in Data Source View
- ✓ DSV Entities : Data Explore Options. Verifications
- ✓ Expressions in DSV Entities. Named Calculations
- ✓ Cube as a Subject Oriented OLAP Database Object
- ✓ Cube Access Methods and Browsers in SSMS, SSDT
- ✓ Cube Access: Excel, SSRS, Power BI, Tableau, etc
- ✓ MDX Filters and Pivot Reports in Microsoft Excel
- ✓ Conditional and Table Formatting Styles @ Excel
- ✓ Cell Styles & Formatting Options. ODC Connections
- ✓ Enabling Caching. Reusing ODC Connection Filters
- ✓ Backend Access to Business Data. Frontend Access
- ✓ Cube Browser in SSDT & SSMS. Cube Drilldowns
- ✓ Hierarchies : Attribute Levels and Access Options
- ✓ Hierarchies for Easy Access. Drill-down Reports
- ✓ Performance Warnings, Missing Attribute Relations
- ✓ Composite Attribute Keys, Members & Hierarchies
- ✓ Deployment Errors - Duplicate Attribute Keys

Video 4: MDX QUERIES & EXPRESSIONS

- ✓ MDX: Multidimensional Expression Language
- ✓ MDX Syntax - Cube Data into ROWS, COLUMNS
- ✓ Advantages of MDX: Reports, Cube Writebacks
- ✓ MDX for Cube Design, KPIs, Actions, Security
- ✓ MDX Queries with Attributes, Members, Axis
- ✓ MDX @ Hierarchies, Levels and Attribute Keys
- ✓ MEMBERS, CHILDREN, ALL MEMBERS Options
- ✓ Reporting Measures, Attributes. Tuple & Set
- ✓ MDX Joins using * and CROSSJOIN. Precautions
- ✓ ORDER, TOPCOUNT / BOTTOMCOUNT/ HEAD
- ✓ WHERE, EXCEPT, RANGE, Operators in MDX
- ✓ NONEMPTY and Multiple Member Values
- ✓ PARENT, CHILDREN with MDX. Tuple Inverse
- ✓ FILTERS - CURRENT MEMBER, EMPTY MEMBER
- ✓ FILTER with AND / OR and LEFT / RIGHT Range
- ✓ LEFT/RIGHT and Pattern Matching with MDX
- ✓ Exact & Closest Match Search, MDX Operators
- ✓ Working with NULL Values, Cascades and Cell
- ✓ MDX Batches, ADOMD Client: Query Processing
- ✓ Differences - Cube Browser & MDX Expressions
- ✓ Formatting Options. Member Name Binding
- ✓ Attribute Keys for Member Value Access

Video 5: CALCULATIONS, TIME ENHANCEMENTS

- ✓ MDX Calculations - Need & Advantages. UI Options
- ✓ Calculations with MDX Scripts. Syntax Verification
- ✓ Calculations Usage and Folders - Cube Browser
- ✓ Reusing Calculations with MDX Expressions
- ✓ Calculations in FILTERS and Search Pattern - MDX
- ✓ Conditional Formats, Expressions in Microsoft Excel
- ✓ TIME DIMENSIONS - Purpose and Advantages
- ✓ Time Keys and Time Attributes - Calendar / Fiscal
- ✓ Adding Hierarchies, Members to Time Dimensions
- ✓ Dimension Enhancements - Advantage and Scope
- ✓ Cube Enhancements - Purpose and Usage Scope
- ✓ Time Calculations with MDX Expressions, SCOPE
- ✓ Attributes & Hierarchies For Time Enhancements
- ✓ Time Calculations for Attributes & Hierarchies
- ✓ MDX Scripting for Time Calculations. Techniques
- ✓ Attribute Calculation Sets, MDX Scripts. Grouping
- ✓ Time Calculations in MDX Editor and Cube Browser
- ✓ Time Calculations with User Defined Calculations
- ✓ Attribute Level Calculations & Dimension Members
- ✓ Measure Level Calculations and Granularity Levels
- ✓ Calculations: Type, Scope, Format and Visibility
- ✓ Associated Measure Groups & Parent Hierarchy
- ✓ Pie-Charts & User Defined Measures For Time
- ✓ Slow Queries with MDX: Need for Tuning Cubes

Video 6: PARTITIONS, AGGREGATIONS & STORAGE

- ✓ Partitions : Purpose and Architecture, Tuning
- ✓ Cube Partitions : Storage, Slicing Conditions
- ✓ Query and Table Binding in Partition Design
- ✓ Default Partitions. Location / Remote Storage
- ✓ Role of Measure Group Partitions in Cubes
- ✓ Aggregations: Purpose. Predefined Calculations
- ✓ Aggregations: Full, Default, None, Unrestricted
- ✓ Aggregation with Optimization Levels. Storage
- ✓ Measure Properties and Aggregations Types
- ✓ Linking Aggregations and Partitions. Slicing
- ✓ Aggregation Reusability Options with Partitions
- ✓ Additive and Semi-Additive Measures - Options
- ✓ Estimated Row Count & Advantages - Tuning
- ✓ Minimize Impact on OLAP Cube Processing
- ✓ Storage Modes : Multidimensional, Relational
- ✓ Aggregation Storage & Measure Group Storage
- ✓ Automatic, Scheduled, Medium , Low Latency
- ✓ Low Latency and Custom Scheduling Options
- ✓ Proactive Caching & Silence / Override Interval
- ✓ Cache Rebuilds, Overwrite. Partition Processing
- ✓ Choosing Correct Storage Modes for MOLAP
- ✓ Perspectives - Scenarios @ Invalid Cube Access
- ✓ Dimension Usage for Relations. End User Access
- ✓ Partitions, Aggregations, Perspectives - Deploy

Video 9: TABULAR MODE DESIGN and MDX QUERIES

- ✓ Tabular Mode - Advantages and SSOT Templates
- ✓ Workspace Server and Configuration Settings
- ✓ Entity Identification and Design Constraints
- ✓ Data Import Wizard and ODBC Connection Settings
- ✓ ODC: Office Data Connections and Column Filters
- ✓ Named Query with Tabular Design, Entity Relations
- ✓ Dimension Identification - Hierarchies, Attributes
- ✓ Time & Non-Time Hierarchies with Tabular Mode
- ✓ Aggregated Measures & Measure Groups with KPI
- ✓ KPI: Static & Dynamic Goals. Status, Trend Factors
- ✓ Partitions - Entity Partitions, SQL Scripts, Process
- ✓ Partition Reuse. Perspectives in Tabular Mode
- ✓ Time Based Hierarchies and Keys in Tabular Mode
- ✓ BUILD & DEPLOY in Tabular Mode. XMLA Scripts
- ✓ Tabular DB Processing: In-Memory & Direct Query
- ✓ In-Memory Direct Query, Direct Query In-Memory
- ✓ Performance of Tabular Mode, In-Memory Queries
- ✓ Virtual Cube Access and MDX in Tabular Mode
- ✓ MDX Filters - Vertical, Horizontal Access. MEMBERS
- ✓ Connections & Semantic Definition Language
- ✓ Cube Design - STAR / SNOWFLAKE Schemas
- ✓ MDX Predicates and FILTER(), Nested Queries

Video 10: TABULAR MODE - DAX QUERIES

- ✓ DAX Query Syntax & Purpose. ROW, CONTAINS
- ✓ Measures inside DAX. ROLAP ADDCOLUMN
- ✓ DAX Local Measures in MDX, Drill through
- ✓ CALCULATETABLE, FILTER, SUMMARIZE
- ✓ CROSSJOIN, GENERATEALL and LOOKUPVALUE
- ✓ FILTER in CALCULATE, CALCULATETABLE
- ✓ TOPRANK, RANKX, RANK.EQ and DAX Filters
- ✓ Vertipaq Storage Advantages and OLAP Options
- ✓ Direct Query Mode Settings. Data Modelling
- ✓ Optimizing Performance by Memory Usage
- ✓ Row Oriented Vs Column Oriented Databases
- ✓ Security Management with DAX. OLAP DB Roles
- ✓ Entity Roles and Membership of Multiple Roles
- ✓ DAX Filters and Dynamic Security - Visual Totals
- ✓ Dynamic Security DAX Functions. Row Filters
- ✓ Tabular Mode Cube Design with ODC Sources
- ✓ Tabular Mode Design with DAT, HTML Sources
- ✓ Advantages & Limitations of Tabular Cubes
- ✓ Importing Tabular Mode Solutions - Workspace
- ✓ Multidimensional Mode Versus Tabular Mode
- ✓ Entity Level Versus Measure Group Partitions
- ✓ Zero Aggregation Vs Usage Based Optimization

<ul style="list-style-type: none"> ✓ Tabular Cubes with Joins, SCOPE, TOPPERCENT ✓ xVelocity & Direct Query with MDX / DAX. Tuning 	<ul style="list-style-type: none"> ✓ Sub Cube and Data Mining Advantages - MOLAP ✓ Design & Access, Delivery Advantages - ROLAP
<p>Video 11: CUBE MANAGEMENT and DATA MINING</p> <ul style="list-style-type: none"> ✓ SSAS Database and Cube Audits - MDX Query Logs ✓ Security Audits & Optimizations, Database Audits ✓ Usage Based Optimization (UBO): Aggregations ✓ Usage Based Optimization (MOLAP) and Filters ✓ Flight Recorder Settings and Query Log Providers ✓ Data Sampling Intervals and MDX Query Tuning ✓ 100% Aggregations FULL, CPU & Space Thresholds ✓ Lazy Aggregations and Performance Settings ✓ Writebacks - Purpose and Usage. Forecast Updates ✓ Writeback Partitions - Cube & Dimension UPDATES ✓ Using MDX Expressions and Queries for Write back ✓ Writeback Tables, MDX Transaction COMMITS ✓ Subcube - Advantages and MDX Query Plans ✓ Subcube - DESCANDANTS, PARENT and MEMBERS ✓ Data Mining - Purpose, Techniques, Forecasts ✓ Mining Structures and Mining Models - Storage ✓ CLUSTERING, DECISION TREES, NEURAL NETWORK ✓ REGRESSION Techniques, Naive Bayes Mining ✓ Case Tables Identification and Nested Tables ✓ Attribute Types - DESCRETE and CONTINOUS ✓ Training Sets and Testing Sets for Data Mining ✓ Dependency Rules, Classification and Lift Chart ✓ Mining Algorithms - Score and Prediction Analysis ✓ DMX - Forecasts, Prediction Functions, Expressions ✓ Mining Model Comparison, DMX, Forecast Reports 	<p>Video 12: REAL-TIME PROJECT and OLAP MODES</p> <ul style="list-style-type: none"> ✓ Multidimensional Management: Backups, Restores ✓ Multidimensional Management: Detach, Attach ✓ Multidimensional Management: DB Synchronize ✓ Tabular OLAP Management: Backups, Restores ✓ Tabular OLAP DB Management: Detach, Attach ✓ OLAP DB Scripting and Cloning Options. Jobs ✓ Cube Processing Jobs with XMLA Commands ✓ Other Analysis Command Execution Platforms ✓ Comparing SSAS 2012, 2014 and SSAS 2016 ✓ Comparing Multidimensional and Tabular Modes ✓ XEvents through SSMS (New in SSAS 2016) ✓ DAX performance and Super DAX ✓ DBCC Commands and MDX for SSAS - 2016 <div style="background-color: red; color: white; padding: 10px; text-align: center;"> <p>Real-time Project for SSAS > Multidimensional Mode > Tabular Mode</p> <p>Domain: Banking / Ecommerce / ERP</p> </div>

Module 3: SQL SERVER REPORTING SERVICES

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DAY 1: SSRS INSTALLATION, CONFIGURATION

- ✓ Need For Reporting Solutions (SSRS) and Tools
- ✓ Reporting Engine Architecture and Report Databases
- ✓ SSRS Installation, Tools and Database Configuration
- ✓ SSRS 2016 : Installation and Report Databases
- ✓ SSRS 2014 : Installation and Report Databases
- ✓ Report Server URL - Purpose, Test Connection, Usage
- ✓ Report Manager URL - Purpose, Test Connection, Usage
- ✓ Report Portal URL in SSRS 2016 - Usage, Web Service
- ✓ Three-Phase Report Life Cycle in Reports (End-End)
- ✓ Report Server Database and Report TempDB
- ✓ Virtual Directories (VD) in Web Services - Settings
- ✓ Communication Ports, Data Encryption, Web Portal URL
- ✓ Report Design & Work Flow Diagram - Lab Plan
- ✓ Report Design with Report Designer & Report Builder
- ✓ Report Builder Versus Report Designer - Basic Differences
- ✓ SSDT: SQL Server Data Tools Installation, Verification
- ✓ SSDT 2017, 2015 and SSDT 2013 Installation, SSRS
- ✓ SSRS 2016 Report Portals and Accessibility

DAY 2: REPORT DESIGN - I

- ✓ Working with Visual Studio - SQL Server Data Tools
- ✓ Report Templates and Basic Usage. Project, Solution
- ✓ Designing Basic Reports - Understanding Entities
- ✓ Working with Report Project Wizard - Usage, Reports
- ✓ Defining Data Source Connections, Source Databases
- ✓ Query Designer Options, Query Builder & Imports
- ✓ Table Reports and Matrix Reports with Report Wizard
- ✓ Layout and Formats - Drilldown Reports, Blocks
- ✓ Stepped Reports and Multi Field Drilldown Options
- ✓ Report Project Template - Designing Dataset, Reports
- ✓ Report Toolbox and Report Data, Textbox Usage
- ✓ Table Headers, Formatting Options, Expressions
- ✓ Alternate Row Colors, Report Globals, Expressions
- ✓ Report Formatting Styles, Expressions & Reusability
- ✓ SSRS Functions: IIF, Format, Ceiling, Round, Concat
- ✓ Alternate Row Colors & Dynamic Formatting Options
- ✓ Textbox Properties - Date & Time Formats, Styles
- ✓ Report Timeout and Static/Dynamic Properties

DAY 3: REPORT DESIGN - II

- ✓ Grouping Operations: Row Groups, Column Groups
- ✓ Table Report - Row Groups, Parent - Child Groups
- ✓ Adding Groups to Existing Rows and New Rows
- ✓ Group Headers and Group Footers - Usage, Sub Totals
- ✓ Group Field Visibility and Toggle Options @ Parent
- ✓ Row Group Properties, Header/Footer Properties
- ✓ Column Groups for Table Reports, Advanced Options
- ✓ Repeat-On-New-Page Options and Report Properties
- ✓ Column Groups for Matrix Reports, Data Grouping
- ✓ Drill-down Reports using Row Groups and Visibility
- ✓ Drill-down Reports using Column Groups, Visibility
- ✓ Table Reports Vs Matrix Reports - Technical Differences
- ✓ Adding Images to Reports. Tooltip and Size Options
- ✓ Report Headers & Report Footers - Globals, Expressions
- ✓ Merging Report Fields, Sub Totals and Grand Totals
- ✓ Group Edits, Removing Group Totals, Group Headers
- ✓ Column Groups - Advance Mode - Fixed Attributes, Fields
- ✓ Repeating Header on Every Page & Repeat Page Options
- ✓ Report Globals for Metadata, Report Properties

DAY 4: REPORT DESIGN - III

- ✓ Report Parameters - Purpose, Benefits and Usage
- ✓ Creating Parameters using Dataset Query Conditions
- ✓ Parameters using Report Properties, Report Data
- ✓ Single Value Parameters and Multi Value Parameters
- ✓ Dynamic Parameter Values, Dependency Options
- ✓ Datasets with Parameters, Dynamic Conditions
- ✓ Dataset Links to Parameters, Value Options from List
- ✓ Multi-Value Parameters: Data Types, Empty Values
- ✓ Reports using Multiple Data Sets. Performance Issues
- ✓ Advanced Options : Auto Refresh, Manual Refresh
- ✓ Dataset Filters, Toolbox Filters - Purpose and Usage
- ✓ Filters Vs Parameters - Differences with Performance
- ✓ Using Filter Condition at Dataset Level, Toolbox Level
- ✓ Data Type Conversions: Filters and Expressions
- ✓ Parameters and Filters - When to use which, why?
- ✓ SSRS Expressions & Global Fields, Report Parameters
- ✓ JOIN, FIELDS, LABEL, Parameter Formatting Options
- ✓ Linking Report Parameters to Dataset Parameters and Filters

DAY DEO 5: REPORT DESIGN - IV

- ✓ Chart Reports - Design Options, Properties and Usage
- ✓ Series Values Selection - with / without Category Groups
- ✓ Report Categories with Series Groups - Differences
- ✓ Data Visualization Types: Trend & Discrete Chart Reports
- ✓ Clustered / Non Clustered Attributes. Position Options
- ✓ Series Labels : Number Formatting Options, Visibility
- ✓ Series Actions : Properties, Multi - Valued Parameters
- ✓ Report Actions : URL / Reports, Setting for Report Filters

DAY 6: REPORT DESIGN - V

- ✓ Gauge Reports: Purpose and End User Access Options
- ✓ Gauge Report Types - Radial and Linear Gauges
- ✓ Adding Data to Gauge Report - Default Indicators
- ✓ Gauge Data Versus Chart Data - Pointer Options
- ✓ Scale: Maximum, Minimum Dynamic Ranges
- ✓ Browser Compatibility and Offline Report Access
- ✓ Gauge Properties, Gauge Panel Properties and Filters
- ✓ Master Reports and Detailed Reports - Sub Reports

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<ul style="list-style-type: none"> ✓ Axis Values - Issues with Multiple Axis Items, Solutions ✓ Dashboard Creations, Multiple Chart Areas, Legends ✓ Dashboard Exports with Filters (Static, Parameterized) ✓ Chart Series and Options, Report Markers & Grid Values ✓ Chart Areas with Multiple Toolbox Items - Limitations ✓ 3-Dimensional Reports - Properties, Visibility Options ✓ Range & Pie Charts, Line Reports, Data Bars, Area Charts ✓ Report Actions with Parameter Values - Report Filter Joins ✓ Exploring Toolbox Filters with Type Expressions ✓ Common Report Errors with DataSet / Report Filters, ✓ Using Shared Data Sources and Shared DataSets ✓ Data Bar Reports & Sparkline Reports - Stacked Reports ✓ Multi Series Charts, Dynamic Charts, Axis Display Control 	<ul style="list-style-type: none"> ✓ Scale - Properties, Values and Label Options ✓ Pointers - Properties, Scale Limits, Format Options ✓ Ranges & Labels, Report Items, Needle Options ✓ Adding Multiple Gauges - Dashboard, Dynamic Size ✓ Parameterized Gauge Reports - Dataset and Filters ✓ Indicator Reports : Value and State Expressions ✓ Indicator Reports & Gauge Panel with Filters ✓ Reports with ODBC Connections, DSN Creations ✓ ODBC Data Source Administrator Tool For Excel ✓ 3D PieCharts and Aggregations with Excel Reports ✓ ODBC Data Source Connection Reuse & Worksheets ✓ Dynamic Report Parameters and Filter Expressions ✓ Rendering Formatting & Real-world Considerations
<p>DAY 7: REPORT DESIGN - VI</p> <ul style="list-style-type: none"> ✓ Report Builder Tool - 2016, 2014, 2008 R2 Installation ✓ Installation Verification Options, .msi File Configuration ✓ Data Source and DataSet Creation with Report Builder ✓ Local Report Specific Entities and RDL File Creations ✓ Entity Browsing Options and Query Design Options ✓ Dataset Design with Parameters & Filters. Usage Options ✓ Query Designer with Report Builder, Table Selection ✓ Column Aggregates and Auto Group BY. Query Edits ✓ Adhoc Reports Design with Tablix Wizard - Layouts ✓ Report Design - Sub Totals, Drill-down & Column Groups ✓ Chart using Report Builder - Line Reports & Options ✓ Dataset Design with Parameters & Filters. Usage Options ✓ Lines and XValue Options using Report Builder Tool ✓ Trend Analysis - Continuous Data Reports - OLTP / DWH ✓ Map Reports - Map Layers, Map Report Items and Options ✓ Map Gallery, ESRI Share Files, SQL Server Spatial data ✓ Geo Spatial Data for Business Analysis Dashboards ✓ Working with Polygon, Tile, Line and Point Map Layers ✓ Map Visualization Options and Bubble Map Reports Usage ✓ Data Fields, Display Labels and Visualization Indicators 	<p>DAY 8: REPORT DEPLOYMENT & SUBSCRIPTIONS</p> <ul style="list-style-type: none"> ✓ Report Deployment Options - Report Builds, Config ✓ Data Source, Data Set Folders, Report Server URL ✓ Report Deployment - UI & Command Line. RSKey ✓ Report Server & Report Manager (Web Portal) URLs ✓ Report Home, Site Settings & Report Settings ✓ Data Sources: Properties, Security & Access Options ✓ DataSets: Properties, Security and Dependent Items ✓ Reports: Properties, Security, Edits, Downloads ✓ Security: Content Manager, Browser, Report Builder ✓ MyReports, Report Publisher Roles. Report Groups ✓ Report Linking and Default/Hidden Parameter Options ✓ Report Tuning: Caching Options, Cache Refresh ✓ Report Tuning: Snapshot Options & Schedules ✓ Report Tuning: Off-the-Shelf Reports, Linked Reports ✓ Local & Global Schedules, History Management, Jobs ✓ Report Builder Connections and Reusability Options ✓ Report Parts & RS Storage Options. Paginated Reports ✓ Report Delivery & Schedules, File Share Subscriptions ✓ Accessing & Controlling Reports, Email Subscriptions ✓ Encryption Keys & RS Config Files, RS Execution Accounts
<p>DAY 9: CUBE REPORTS, POWER BI INTEGRATION</p> <ul style="list-style-type: none"> ✓ Scale-Out Deployments and Remote Report Databases ✓ Remote Report Database Connections, Recovery Options ✓ Scale-Out Joins and Waits. Report Configuration Keys ✓ Multi-Report Server Configurations, Execution Accounts ✓ Report Designer Versus Report Builder - Advantages ✓ Cube Reports with SSRS - MDX Queries. Advantages ✓ Cube Reports - MDX Parameters & Filters, Performance ✓ Cube Reports - MDX Expressions, YTD, QTD Calculations ✓ Reports with SSAS KPIs and Cube Aggregations - MOLAP ✓ Cube Reports with Tabular Data Sources. Hierarchies ✓ Sub Reports, Dashboards, Actions with Report Builder ✓ Drill-Up and Drill-Down Reports, Drill Through Reports ✓ Report Actions @ SSAS 2016 OLAP Databases ✓ Power BI Reports with SSRS - Desktop / Mobile Editions 	<p>DAY 10: Real-time Project @ ERP</p> <p>End-to-End Reporting Solutions, Dashboards, KPIs, Mobile Reports, Builds, Deployments, Subscriptions, Tuning, Jobs, Audit Logs and more..!</p> <p>Versions: SSRS 2014 and SSRS 2016 Environment: SSDT 2013, SSDT 2017 Database Size: 250 GB</p>

- ✓ Power BI PBX Reports with RDL Sources, Vice Versa
- ✓ Power BI Reports with SSRS and SSAS Connections
- ✓ Power View and Power Pivot Extensions, Usage Examples
- ✓ New SSRS Tuning Features in 2016, Report Migrations

No. Of Tables: 74
Platform: ERP

Pre-requisites for this MSBI (SSIS, SSAS, SSRS) Course:

Prior knowledge on T-SQL needed for this course. Participant needs to have knowledge on SQL Server Installation, Database Design, Table Design, T-SQL Data Types and Stored Procedures.

Course includes Study Material, Interview & Certification guidance along with one **Real-time Project**.

About Trainer:

Mr. Sai Phanindra Tholeti is a Database Consultant working for his own company - *SequelGate Innovative Technologies Pvt. Ltd.* With more than 11 years of expertise and passion for SQL Server, Business Intelligence (MSBI) and Data Warehouse Management - Mr. Sai provides Data Hosting, Business Consulting and Technical Support Services for Corporate Clients. All his training sessions are completely **practical, real-time and highly interactive**.

Complete profile of the trainer available @ <http://www.linkedin.com/in/saiphanindra>

For Free Demo / Further Clarifications, please reach us.

India: Country Code - 0091 (0)9666440801 (Mobile)
 040 645 77244 (Office: 24x7)

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