

## SQL SERVER INTEGRATION SERVICES (SSIS)

### SSIS Architecture and DW Concepts

- Need of SSIS for ETL Operations
- Data Warehouse Design and SSIS
- DW Components and SSIS Tools
- SSIS Configuration and Catalog DB
- Control Flow Tasks Architecture
- Data Flow Tasks Architecture
- Data Pipelines and Buffer Usage
- SSIS Data Types and Conversions
- SSIS Local & Global Variables
- Dynamic Precedence Constraints
- Dynamic Connection Managers
- Data Flow Transformations usage
- Handling Enumerations in SSIS
- Expressions and Iterations
- SCRIPT Task usage in SSIS

### SSIS Expressions & Debugging

- Conditional Precedence Expressions
- SSIS Parameters Usage and Variable
- Control Flow Breakpoints
- Data Flow Data Viewers and Audits
- Limitations of SSIS Debugging

### Data Flow Transformations

- Row and Column Transformations
- Combining and splitting datasets
- Performing database operations
- MERGE Vs UNION ALL Transformations
- Lookup, Fuzzy Grouping, OLE-DB Command
- SORT Vs AGGREGATE Transformations
- Custom Code Handling in DW
- Event Notifications and Emails
- Data Sampling and Data Delta
- Type I and Type II SCDs
- Performing PIVOT operations
- SSIS Transactions & Isolation Levels
- CHECKSUM Transformation in DW
- Iterating XML nodes and Data
- CACHE Transformation & Performance
- Applying Configuration Options
- Parent – Child Parameters & Options

### Event Logging and Event Handling

- Configurations and benefits
- System Events and Audits
- Package Event Handling
- Limitations of Event Handling
- Event Bubbling Escalations
- Benefits of SSIS Logging
- Environment Variables Usage
- Windows Event Logs and SSIS
- SQL Server Logging Limitations
- Choosing correct log providers
- Package Execution Audits

### Deployment Procedures

- Deployment Versioning & Options
- SSIS Deployment Phases & Manifest Files
- Project Packaging and ISPAC Files
- Validation & Verification Techniques
- SSIS Checkpoints and Usage
- Data Analytics and Debugging
- Data Profiler & ADO Connections

### Deployment Options & Utilities

- File System Deployment
- Package Execution Options
- File System Security Limitations
- SSIS Deployment & DB Engine
- SSIS Catalog Project Files
- Package Migration Utilities
- Command-Line Deployments
- TDS Sizing and Tuning Options

### SSIS Package Security and Upgrades

- Encrypting SSIS Catalogs
- Package Store and SSISDB
- Security Audits and Reports
- Container and Package Logging
- DTS packages to SSIS migration
- Upgrading 2008 Packages to 2012
- MSDB and SSIS Catalog Files
- Comparing SSIS 2008 R2 & 2012
- ISPAC Files & Package Migrations

Detailed Course curriculum available @ <http://sqlschool.com/SSIS-Online-Training.html>

#### Pre-requisites:

To attend for our practical MSBI (SSIS) Trainings, the participant needs to have basic SQL Server knowledge on Database Design, Table Design, T-SQL Data Types, Constraints, Views, Indexes, Stored Procedures and Functions.

All the concepts will be discussed practically. We provide Study Material, Interview & Certification Guidance along with one Real Time Case Study for this course. 24x7 LIVE Server access with Virtual Lab facility available.

#### About Trainer:

Mr. Sai Phanindra Tholeti, having 7+ years of experience exclusively on SQL Server & BI is a Database Consultant working for his own company - *SequelGate Innovative Technologies Pvt. Ltd.* He renders technical and support services for corporate clients involving Database Hosting, Business Consulting, CLOUD Storage (AZURE) and Data Support activities. All training sessions are completely **practical, real-time** and highly **interactive**.

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

#### Training Highlights:

- ✓ Real-time Sessions and Completely Interactive
- ✓ Complete Practical Sessions
- ✓ Study Material
- ✓ Screenshot based Practice Material
- ✓ Session wise notes & Doubts Clarifications
- ✓ Certification Material
- ✓ Resume Preparation
- ✓ Interview Questions and Guidance
- ✓ Free Workshops & Technical Support
- ✓ Videos for missing sessions
- ✓ One Real-time Case Study
- ✓ 24x7 LIVE Server Access
- ✓ Virtual Lab Facility

**All Trainings are completely practical and real-time.**

#### Joining Procedure:

Participant needs to attend for a free demo. Registrations accepted after attending the demo session. Payment details to be shared after you attend free demo.

#### For Free demo / Further Clarifications:

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**040 64577244** (Office)  
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**Mail us:**            [contact@sqlschool.com](mailto:contact@sqlschool.com)

**Skype:**             **SQL School**

For Course Fee and Free Demo schedules, you may also refer to <http://sqlschool.com/contact.html>

Training Faqs available at <http://sqlschool.com/faq.html>