

# Indus IT Training

**Course: MS-SQL Server With Business Intelligence (SSIS, SSRS, SSAS) Training Outline Course**

**Duration: Six Weekends - Sat & Sun: 9.00am – 1.00pm - Approx. 50hrs**

## **MS-SQL Server with Business Intelligence (SSIS, SSRS, SSAS) Training**

### **Outline A Tour of SQL Server 2008**

SQL Server 2008 Editions, Components, and Tools

Using SQL Server Management Studio (SSMS)

Working with Tables, Queries, and Views

Business Intelligence Services

### **Designing and Creating a Database**

Relational Database Design Principles

Implementing the Design

### **Basics of Database Design**

- ❖ Relational Database Design Principles
- ❖ Implementing the Design
- ❖ Normalization
- ❖ Denormalization
- ❖ Creating a Database

### **Working with SQL Server Management Studio**

- ❖ Getting Started with Management Studio
- ❖ Exploring the Object Explorer
- ❖ Working with the Query Editor
- ❖ Using SQL Server Books Online

### **Data Selection Queries**

- ❖ Understanding Transact-SQL
- ❖ The SELECT Statement
- ❖ The WHERE Clause
- ❖ Using ORDER BY to Sort Data
- ❖ The GROUP BY Clause
- ❖ Joining Tables

### **Advanced Data Types**

- ❖ Introduction
- ❖ The HierarchyID Data Type
- ❖ Sparse Columns and Column Sets
- ❖ FILESTREAM Storage
- ❖ Spatial Data

**Location: 1033 Sterling Road, Ste. 204, Herndon-VA-20170. USA.**  
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**(Intersection of Sterling Road & Elden Street in Herndon)**

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## Complex Querying

- ❖ Working with NULL Values
- ❖ Ranking Grouped Data
- ❖ Writing Correlated Subqueries
- ❖ Using Common Table Expressions

## Modifying Data

- ❖ Modifying Data with Transact-SQL
- ❖ Inserting Data
- ❖ Updating Data
- ❖ Deleting Data
- ❖ Understanding Transaction Isolation

## Transact-SQL Programming

- ❖ Overview of Transact-SQL
- ❖ Using Built-In Functions
- ❖ Controlling Flow
- ❖ Ranking Results

## Transactions and Error Handling

- ❖ Transaction Concepts
- ❖ Applications and Transactions
- ❖ Creating Explicit Transactions
- ❖ Using TRY/CATCH Error Handling

## Working with XML

- ❖ The XML Data Type
- ❖ XML Schema Collections
- ❖ Querying XML
- ❖ Best Practices

## Creating Views

- ❖ What Is a View?
- ❖ Creating Views
- ❖ Updating Data Using a View
- ❖ Using Computed Columns
- ❖ Indexed Views
- ❖ Partitioned Views

## Creating User-Defined Functions

- ❖ User-Defined Function Overview
- ❖ Scalar Functions
- ❖ Inline Table-Valued Functions
- ❖ Multi-Statement Table-Valued Functions

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- ❖ Using Functions ,Views ,and Stored Procedures

## **Creating Stored Procedures and Triggers**

- ❖ Creating Stored Procedures
- ❖ Creating Triggers

## **Advanced Query Techniques**

- ❖ Full-Text Search
- ❖ Advanced T-SQL Techniques
- ❖ Executing Dynamic SQL

## **SSIS 2008 Training Outline**

### **A Guided Tour of Integration Services**

- ❖ Understanding Integration Services
- ❖ Exploring and Executing an Integration Services Package in BIDS
- ❖ Exploring and Executing a Package Outside of BIDS

### **Control Flow**

- ❖ Overview of Control Flow in Integration Services
- ❖ Working with Workflow Tasks
- ❖ Precedence Constraints

### **Data Flows**

- ❖ The Data Flow Task
- ❖ Data Viewers
- ❖ Data Flow Transformations