

SQL Advanced

Length: 1 Day

COURSE CONTENT

MODULE 1

- Variables
- Assigning Data to Local Variables
- Global Variables
- Control of Flow
- IF – THEN
- BEGIN – END
- IF EXISTS – IF NOT EXISTS
- RETURN
- WHILE
- Using Print
- Using RAISEERROR

MODULE 2

- Transactions Detail
- Transaction Management
- Locking
- Isolation Levels
- Holdlocks and Deadlocks
- Chained and Unchained Mode
- Save Points
- Rolling Back to a Named Save Point
- @@rowcount and @@error

MODULE 3

- Cursors
- Types of Cursors
- Benefits and Drawbacks of Cursors
- Declare Cursor
- Open Cursor
- Fetch Data
- Fetch Data into Variables

- Closing and De-Allocating Cursors
- Modifying Data with Cursors
- Locking Issues
- Problems to Watch for

MODULE 4

- Batches of SQL Statements
- What is a Stored Procedure?
- Anatomy of a Stored Procedure
- Purposes of Stored Procedures
- Advantages of Stored Procedures
- Input Variables
- Output Variables
- Default Values
- Error Handling
- Debugging (Print Statements)
- Advanced Print Statements
- Temporary Tables and Select Into
- Commenting Stored Procedures
- Nested Transactions in Stored Procedures
- Nested Stored Procedures
- Save Points Revisited
- Creating Stored Procedure Shells
- Server Cursors
- Scope of Cursors

MODULE 5

- Triggers Defined
- Why use a Trigger?
- Roles of Triggers
- When Does a Trigger Fire?
- Special tables for Triggers

- How Triggers Work: Counting Rows
- Checking Column Changes