



**MIRACLE
TECHNOLOGIES**
An ISO 9001 : 2000 Certified Company

MIRACLE

Presents

Knowledge Workshops

**CHALLENGING
TOMORROW**

Series

**SUPERIOR CAREER GROWTH
FOR WORKING PROFESSIONAL**

MIRACLE TECHNOLOGIES

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- VIII. Normalization and Design**
 - Tables
 - Keeping Data “Normal”
 - Relationships
 - Diagramming
 - De-Normalization
- IX. SQL Server Storage and Index Structures**
 - SQL Server Storage
 - Indexes
 - Creating, Altering, and Dropping Indexes
 - Maintaining Indexes
- X. Views**
 - Simple Views
 - Complex Views
 - Editing Views with T-SQL
 - Dropping Views
 - Creating and Editing Views in the Management Studio
 - Auditing: Displaying Existing Code
 - Protecting Code: Encrypting Views
 - About Schema Binding
 - Making Your View Look Like a Table with VIEW_METADATA
 - Indexed (Materialized) Views
- XI. Writing Scripts and Batches**
 - Script Basics
 - Batches
 - SQLCMD
 - Dynamic SQL
- XII. Stored Procedures**
 - Basic Syntax
 - Changing Stored Procedures
 - Dropping Stored Procedures
 - Parameterization
 - Control-of-Flow Statements
 - Return Values
 - Errors
 - Extended Stored Procedures (XPs)
 - Recursion
 - Debugging
 - .NET Assemblies
- XIII. User Defined Functions**
 - What is a UDF
 - UDFs Returning a Scalar Value
 - UDFs which Return a Table
 - Debugging User-Defined Functions
 - .NET and Databases
- XIV. Transactions and Locks**
 - Transactions
 - SQL Server Log

- Locks and Concurrency
- Isolation Level
- Deadlocks
- XV. Triggers**
 - What is a Trigger?
 - Triggers for Data Integrity Rules
 - Common Uses for Triggers
 - Trigger Issues
 - INSTEAD OF Triggers
 - Performance Considerations
 - Dropping Triggers
 - Debugging Triggers
- XVI. XML Primer**
 - XML Basics
 - SQL Server and XML
 - XSLT
- XVII. Reporting Services**
 - Reporting Services
 - Building Report Models
 - Report Server Projects
- XVIII. Integration Services**
 - Understanding the Problem
 - Import/Export Wizard
 - Executing Packages
 - Editing Packages
- XIX. Administration**
 - Scheduling Jobs
 - Backup and Recovery
 - Index Maintenance
 - Archiving Data
- XX. Integrating XML With Transact-SQL**
 - Retrieving XML using HTTP
 - Submitting SQL as part of a URL
 - Exploiting Transact-SQL extensions
 - Using the FOR XML clause to select data