

## **SQL SERVER DBA COURSE CONTENT**

- ❖ **SQL SERVER 2012 INSTALLATION:**
- ❖ **DATABASE DESIGN TECHNIQUES:**
- ❖ **TABLE DESIGN WITH FILE GROUPS:**
- ❖ **DATA INTEGRITY & CONSISTENCY:**
- ❖ **ALIASING & NAMING CONVENTIONS:**
- ❖ **SCHEMA CREATION & NAMESPACE:**
- ❖ **VIEWS AND DATA SECURITY:**
- ❖ **JOINS AND NESTED QUERIES:**
- ❖ **INDEXES & PERFORMANCE TUNING:**
- ❖ **STORED PROCEDURES & TUNING:**
- ❖ **USER FUNCTIONS AND LIMITATIONS:**
- ❖ **DML AND DDL TRIGGER:**
- ❖ **CURSORS USAGE AND ISSUES:**
- ❖ **TRANSACTION ACID PROPERTIES:**
- ❖ **SYSTEM OBJECTS & USAGE:**
- ❖ **NEW FUNCTIONS IN SQL 2012:**
- ❖ **BASIC ADMINISTRATION:**
  - Transaction Isolation Levels
  - Blocking Issues & Deadlocks
  - Partitioning Strategy & Tuning
  - DB Snapshots and Usage
  - Backup Strategies & Tuning
  - Restore and Recovery Options
  - Replication Configurations & Jobs
  - Peer - Peer Replication Issues
  - Log Shipping and Common Issues
  - Database Mirroring and Issues
  - Security Management & Issues
  - Certificates and Signatures
  - Import - Export (SSIS) Techniques
  - SQL Profiler & Troubleshooting
  - Deadlock Graphs & Monitoring
  - Tempdb Issues and Log Sizing
  - Database Cloning and Issues

❖ **ADVANCED ADMINISTRATION:**

- Table Partitions & Statistics
- Maintenance Plans & SSIS Tuning
- DB Engine Tuning Advisor
- DB Mail with Alerts & Operators
- Database Repairs, Object Repairs
- SQL Server Database Upgrades
- SQL Server Database Migrations
- Server Upgrades & Migrations
- Tuning Options & Troubleshooting
- CPU, IO and Memory Issues
- Always-On Availability Groups
- Windows Clustering Configuration
- SQL Clustering Configuration
- Transaction Locks and Memory
- Adding SQL Cluster Nodes
- Cluster Quorum & Storage (SAN)
- MSDTC with Cluster Quorum

