



SQL Server

OUR MISSION :

"Our mission is to empower learners worldwide through innovative technology, personalized learning experiences, and accessible educational resources. We strive to cultivate a community where every individual can achieve their full potential, regardless of their background or circumstances."

OUR VALUES :

"To pioneer the future of education by leveraging cutting-edge technology to make learning more engaging, effective, and inclusive. We envision a world where education transcends boundaries, creating opportunities for lifelong learning and fostering a society enriched by knowledge and creativity."



COURSE CURRICULUM:

Week 1: SQL Server Fundamentals Review

- Day 1-2: Introduction to SQL Server
 - Overview of SQL Server architecture and components.
 - Installing and configuring SQL Server.
- Day 3-4: Core SQL Server Concepts
 - Review of basic SQL queries, database objects (tables, views, indexes).
 - Hands-on: Writing basic SQL queries.
- Day 5: SQL Server Management Studio (SSMS)
 - Navigating and using SSMS effectively.
 - Hands-on: Basic operations using SSMS.

COURSE CURRICULUM:

Week 2: Advanced Query Techniques

- Day 1-2: Advanced SQL Queries
 - Subqueries, Common Table Expressions (CTEs), and window functions.
 - Hands-on: Writing complex queries.
- Day 3-4: Performance Tuning
 - Understanding execution plans and query optimization.
 - Indexing strategies and best practices.
- Day 5: Query Profiling and Optimization
 - Using tools like SQL Profiler and Database Engine Tuning Advisor.
 - Hands-on: Optimizing slow-running queries.

COURSE CURRICULUM:

Week 3: SQL Server Internals

- Day 1-2: Understanding SQL Server Storage
 - Data files, log files, and filegroups.
 - How data is stored and retrieved.
- Day 3-4: Transaction Log and Locking
 - Transaction log architecture and operations.
 - Locking, blocking, and deadlocks.
- Day 5: Advanced Indexing
 - Clustered vs. non-clustered indexes, columnstore indexes.
 - Hands-on: Creating and managing advanced indexes.

COURSE CURRICULUM:

Week 4: SQL Server Security

- Day 1-2: Authentication and Authorization
 - Managing logins, users, and roles.
 - Implementing row-level security and dynamic data masking.
- Day 3-4: Data Encryption
 - Transparent Data Encryption (TDE), Always Encrypted.
 - Hands-on: Encrypting data and securing database access.
- Day 5: Auditing and Compliance
 - Setting up and managing SQL Server audits.
 - Ensuring compliance with regulatory requirements.

COURSE CURRICULUM:

Week 5: High Availability and Disaster Recovery

- Day 1-2: Backup and Restore Strategies
 - Full, differential, and transaction log backups.
 - Point-in-time restore and recovery models.
- Day 3-4: High Availability Solutions
 - Always On Availability Groups, failover clustering.
 - Hands-on: Setting up and managing high availability solutions.
- Day 5: Disaster Recovery Planning
 - Creating and testing disaster recovery plans.
 - Hands-on: Simulating disaster recovery scenarios.

COURSE CURRICULUM:

Week 6: SQL Server Integration Services (SSIS)

- Day 1-2: Introduction to SSIS
 - Overview of SSIS and its components.
 - Creating basic SSIS packages.
- Day 3-4: Advanced SSIS Development
 - Data flow transformations, control flow tasks.
 - Error handling and logging in SSIS packages.
- Day 5: SSIS Deployment and Management
 - Deploying SSIS packages, managing and monitoring SSIS execution.

COURSE CURRICULUM:

Week 7: SQL Server Reporting Services (SSRS) and Analysis Services (SSAS)

- Day 1-2: Introduction to SSRS
 - Creating and deploying reports with SSRS.
 - Advanced report design and parameters.
- Day 3-4: Introduction to SSAS
 - Overview of SSAS and OLAP concepts.
 - Creating and managing cubes.
- Day 5: Advanced Analytics
 - Using Data Mining and advanced analytics features in SSAS.
 - Hands-on: Building and deploying analytical models.

COURSE CURRICULUM:

Week 8: Final Project and Presentations

- Day 1-4: Project Development
 - Students work on a comprehensive final project that integrates multiple aspects of the curriculum.
- Day 5: Project Presentation and Evaluation
 - Students present their projects.
 - Feedback and evaluation.

Our Partners Company's



The logo consists of the letters 'TS' in a large, bold, black, sans-serif font. The letters are contained within a white circular shape that has a slight 3D effect, appearing to be a sticker or a piece of paper with a shadow on the right side. The background of the entire image is a dark, semi-transparent overlay of a group of people in a meeting, looking at a laptop screen.

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