



SQL Server TSQL Training

Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **MSSQL / SQL Server TSQL Training** Course. With 19+ Years of technical expertise exclusively on SQL & Database Technologies, I assure you 100% Practical, Step by Step Classes for this MSSQL course. My Profile @ <https://www.linkedin.com/in/saiphanindra/>

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MS SQL & TSQL

100% Real-Time, Job Oriented Trainings

- ✓ Database, SQL Concepts
- ✓ SQL Server TSQL Queries
- ✓ RDBMS, Constraints, Keys
- ✓ Joins & Group By Queries
- ✓ Window Functions, Excel
- ✓ Stored Procedures (SPs)
- ✓ Views, Triggers, Functions
- ✓ Cursors & CTEs, Queries
- ✓ Server, DB Architectue
- ✓ Merge, Query Tuning
- ✓ Excel & Data Analytics

- Step by Step
- LIVE Project
- Resume, FAQs
- LIVE Class Videos

New batch every week !

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What is Database?

Database is a platform to store, extract and manage any type of data. Any amount of data.

What is SQL?

SQL (Structured Query Language) is a platform to connect, operate with database. We can store data, secure, report data and analyze data using SQL.

What is TSQL?

TSQL stands for Transact SQL. It is a Microsoft variant of SQL. TSQL is used to design, program and develop databases. It is very easier, faster and easier to work with.

For Free Demo, Latest Schedules, call us on +91 9951440801 or visit www.sqlschool.com/register

Who can join this course?

Anyone. There are NO Pre-requisites for this course. We start the classes from scratch, right from Basics. Placement Assistance is part of the course, purely based on merit & opportunities.

What about the Lab? What are the System Requirements?

Window OS; 6 GB RAM; Any Processor. We shall guide you for Software Installation, Practice.

SQL Server TSQL Course Plans :

	Course	Chapters	Applicable for	Duration
Plan A	1. MSSQL, TSQL Queries	Ch 1 to Ch 15	Data Analysts, Data Engineers, Data Scientists	3 Weeks
Plan B	1. MSSQL, TSQL Queries 2. TSQL Programming 3. Query Tuning	Ch 1 to Ch 30	Database Developers SQL Programmers	5 Weeks
Plan C	1. MSSQL, TSQL Queries 2. TSQL Programming 3. Query Tuning 4. Azure SQL Development	Ch 1 to Ch 40	Database Developers, Azure SQL Developers	7 Weeks

Module 1: SQL Server TSQL (MS SQL) Queries

Helpful for Data Analysts, Data Engineers, Data Scientists, BI Developers

Ch 1: Introduction <ul style="list-style-type: none">✓ Database Introduction✓ Types of Databases✓ Need for & ETL, DWH✓ BI Implementations✓ SQL Server Advantages✓ Version, Editions of MSSQL✓ Realtime Database Job Roles	Ch 2: Installations <ul style="list-style-type: none">✓ SQL Server 2019, 2017✓ SSMS Tools Installation✓ Database Engine (OLTP)✓ SCM, Configuration Tools✓ Instance Types, Uses✓ Authentication Modes✓ Collation, File Stream	Ch 3: SQL Basics - 1 <ul style="list-style-type: none">✓ Need for Databases, Tables✓ Need for SQL Commands✓ DDL, DML & DQL Statements✓ Database Creation @ GUI✓ Data Operations @ GUI✓ Session ID, SQL Context✓ DB, Tables, Data @ SQL
Ch 4: SQL Basics - 2 <ul style="list-style-type: none">✓ DDL Variants in MSSQL✓ DML Variants in MSSQL✓ INSERT & INSERT INTO✓ SELECT & SELECT INTO✓ Basic Operators in SQL✓ Special Operators in MSSQL✓ ALTER, ADD, TRUNCATE, DROP	Ch 5: Data Imports, Schemas <ul style="list-style-type: none">✓ Data Imports with Excel✓ ORDER BY & UNION✓ UNION ALL For Sorting Data✓ Creating, Using Schemas✓ Real-world Banking Database✓ Table Migrations @ Schemas✓ 2 Part, 3 Part & 4 Part Naming	Ch 6: Constraints, Index Basics <ul style="list-style-type: none">✓ Need for Constraints, Keys✓ NULL, NOT NULL, UNIQUE✓ Primary Key & Foreign Key✓ RDBMS and ER Models✓ Identity Property, Default✓ Clustered Index, Primary Key✓ Non Clustered Index, Unique

Ch 7: Joins & Views Basics <ul style="list-style-type: none"> ✓ JOINS: Purpose. Inner Joins ✓ Left / Right / Full Outer Joins ✓ Cross Joins, Query Tuning ✓ Creating & Using Views ✓ DML, SELECT with Views ✓ RLS : WITH CHECK OPTION ✓ System Views & Metadata 	Ch 8: Functions(UDF), Data Types <ul style="list-style-type: none"> ✓ Using Functions in MSSQL ✓ Scalar Value Functions ✓ Inline & Multiline Functions ✓ Date & Time Functions ✓ String, Aggregate Functions ✓ Data Types : Integer, Char, Bit ✓ SQL Variant, Timestamp, Date 	Ch 9: Stored Procedures,Models <ul style="list-style-type: none"> ✓ Stored Procedures & Usage ✓ Creating, Testing Procedures ✓ Encryption, Deferred Names ✓ SPs for Validations, Analysis ✓ System SPs, Recompilation ✓ Normal Forms & Types ✓ Data Models, Self-References
Ch 10: Triggers, Temp Tables <ul style="list-style-type: none"> ✓ Need for Triggers ✓ DDL & DML Triggers ✓ Using Memory Tables ✓ Data Replication, Automation ✓ Local & Global Temp Tables ✓ Testing & Using Temp Tables ✓ SELECT .. INTO & Bulk Loads 	Ch 11: DB Architecture, Locks <ul style="list-style-type: none"> ✓ Planning VLDBs : Files, Sizing ✓ Filegroups, Extents & Types ✓ Log Files : VLF, Mini LSN ✓ Table Location, Performance ✓ Schemas, Transfer, Synonyms ✓ Transactions Types, Lock Hint ✓ Query Blocking Scenarios 	Ch 12: Cursors & CTEs, Links <ul style="list-style-type: none"> ✓ Cursors : Realtime Use ✓ Fetch & Access Cursor Rows ✓ CTEs for SELECT, DML ✓ CTEs: Scenarios & Tuning ✓ Linked Servers, Remote Joins ✓ Linked Servers: MSDTC, RPC ✓ Tuning Remote Queries
Ch 13: Merge, Upsert & Rank <ul style="list-style-type: none"> ✓ Need for Merge in ETL ✓ Incremental Loads with SQL ✓ MERGE and RANK Functions ✓ Window Functions, Partition ✓ Identify, Remove Duplicates 	Ch 14: Grouping & Cube <ul style="list-style-type: none"> ✓ Group By & HAVING ✓ Cube, Rollup & Grouping ✓ Joins with Group By ✓ 3 Table, 4 Table Joins ✓ Query Execution Order 	Ch 15: Self Joins, Excel Analysis <ul style="list-style-type: none"> ✓ Self Joins & Self References ✓ UNION, UNION ALL ✓ Sub Queries with Joins ✓ IIF, CASE, EXISTS Statements ✓ Excel Analytics, Pivot Reports
Real-time Case Study		
Mini Project [Design, Queries, Stored Procedures, Functions, Joins, more..]		

Module 2: TSQL Programming & Tuning

Ch 16: Adv. Stored Procedures 1 <ul style="list-style-type: none"> ✓ Declaring, Using Variables ✓ Using Triggers with Views ✓ Updatable Views, DML ✓ Views & Stored Procedures ✓ Data Distributions in Tables ✓ Transactions with Procedures ✓ Conditional Commits in SPs ✓ Rollback Options in Realtime 	Ch 17: Adv. Stored Procedures 2 <ul style="list-style-type: none"> ✓ Table Valued Parameters ✓ Using TVP with Procedures ✓ Creating User Defined Types ✓ Big Data Copy & Transactions ✓ Using SPs & Table Variables ✓ Transactional Integrity ✓ Output Parameters in SP ✓ IN and OUT Options Usage 	Ch 18: Adv. Stored Procedures 3 <ul style="list-style-type: none"> ✓ Dynamic SQL Programs ✓ sp_executesql Extended SP ✓ Formatting Queries, Nvarchar ✓ Cursors Types: Local, Global ✓ Cursor Types: Static, Dynamic ✓ Forward_Only, Scroll Types ✓ WHILE Loop: @@Fetch Status ✓ Variables with Dynamic SQL
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Ch 19: Complex Functions (UDF) <ul style="list-style-type: none"> ✓ Inline, Table Line Functions ✓ Multi Line Table Functions ✓ Using LOOPS in Functions ✓ Variables & Return Values ✓ Table Generation Logic ✓ Date & Time Data Types ✓ Calendar Data Generations 	Ch 20: Complex Functions - 2 <ul style="list-style-type: none"> ✓ Reading JSON Data ✓ Using OPENROWSET() ✓ Using nvarchar(max) values ✓ Using PIVOT() Function ✓ Data De-duplication in SQL ✓ Recursive CTEs, Anchors ✓ Recursive CTEs, Anchors 	Ch 21 – 24: Banking Project <ul style="list-style-type: none"> ✓ Design & Planning Phase ✓ Querying Phase ✓ Programming Phase ✓ Debugging Phase ✓ Testing Phase ✓ Complete Project Solution ✓ Project FAQs, Resume Points
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Module 3: Query Tuning

Ch 25: Query Audits, Perfmon <ul style="list-style-type: none"> ✓ Query Performance Issues ✓ Reasons for Slow Queries ✓ Performance Tuning Options ✓ Performance Tuning Tools ✓ Query Store & History ✓ Activity Monitor, Perfmon ✓ DMVs & DMFs for Audits 	Ch 26: Indexes & Tuning <ul style="list-style-type: none"> ✓ Indexes : Sort Locations ✓ Clustered & Online Indexes ✓ Non Clustered, Columnstore ✓ Included Indexes in Realtime ✓ Filtered Indexes & Usage ✓ Covering Index & Selectivity ✓ Indexed Views (Materialized) 	Ch 27: Partitions, Statistics <ul style="list-style-type: none"> ✓ Partition Implementations ✓ Partition Functions & Schemes ✓ Primary & Secondary Types ✓ Data Archival with Partitions ✓ Compression with Partitions ✓ Statistics : Realtime Use ✓ Index, Column Stats, Updates
Ch 28: Tuning Tools, Exec Plans <ul style="list-style-type: none"> ✓ Tuning Tools and Workloads ✓ Profiler Tool : Trace Files ✓ Trace Filters and Rollover ✓ DTA Tool Recommendations ✓ PDS, & Index Size, Index Scan ✓ Execution Plans, Index Seeks ✓ Query Cost Issues, Solutions 	Ch 29: MOT & Temporal Tables <ul style="list-style-type: none"> ✓ Memory Optimized Tables ✓ Non Clustered Primary Keys ✓ Stats Updates, Performance ✓ Temporal Tables in Realtime ✓ History Tracking & Testing ✓ Timestamp Columns Usage ✓ Tuning Stored Procedures 	Ch 30: Locks & Isolation Levels <ul style="list-style-type: none"> ✓ Transactions & Locks ✓ Lock Types & Performance ✓ Lock Management Options ✓ Isolation Levels & TempDB ✓ Snapshots and Performance ✓ Deadlocks Simulations, Graphs ✓ Profiler Tool & LIVE Locks

Module 4: Azure SQL Dev

Ch 31: Cloud Basics, Azure Funda <ul style="list-style-type: none"> ✓ Cloud Fundamentals ✓ Cloud Concepts, Benefits ✓ IaaS, PaaS, SaaS Cloud Types ✓ Azure Cloud Concepts ✓ Azure Resources & Usage ✓ Azure Services & Purpose ✓ Azure Account & Subscription 	Ch 32: Azure SQL Database <ul style="list-style-type: none"> ✓ Azure SQL Services ✓ Azure SQL Server Creation ✓ Azure SQL Databases ✓ Azure Firewall : Rules ✓ Test Connections from SSMS ✓ SSMS Tool : Test Connections ✓ ADS Tool : Installation, use 	Ch 33: Azure SQL DB Migrations <ul style="list-style-type: none"> ✓ SQL DB Migration Options ✓ Data Migration Assistant: DMA ✓ DMA Tool, Migration Options ✓ On-Premises DB Export ✓ Azure SQL Database Import ✓ Azure Storage Account ✓ Linking SSMS with Azure
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<p>Ch 34: Azure SQL DB Licensing</p> <ul style="list-style-type: none"> ✓ Azure SQL DB Licensing ✓ Per Database Licensing ✓ DTUs: Basic, Standard Types ✓ VPU and Plan Types ✓ DTU Versus VPU Licensing ✓ Elastic DTUs (eDTU) Usage ✓ Elastic Query Processing 	<p>Ch 35: Azure SQL DB Metrics</p> <ul style="list-style-type: none"> ✓ Azure SQL DB Metrics ✓ CPU, Memory, Log Metrics ✓ Data File Metrics, Alerts ✓ Action Groups & Emails ✓ Query Performance Insight ✓ Automated Tuning Options ✓ Query Recommendations 	<p>Ch 36: Azure SQL DB Tuning, AI</p> <ul style="list-style-type: none"> ✓ Automated Tuning Options ✓ Manual Tuning Options ✓ Server Level Tuning ✓ Database Level Tuning ✓ AI Search Service, Tuning ✓ AI Indexes and Practical Use ✓ Watermark Columns, Updates
<p>Ch 37: Azure PaaS & Azure IaaS</p> <ul style="list-style-type: none"> ✓ Azure PaaS : Operations ✓ Azure PaaS : Limitations ✓ Azure IaaS : Advantages ✓ Azure IaaS Components ✓ Azure Virtual Machines ✓ Capacity & Networking ✓ Disk & Memory Config. 	<p>Ch 38: Azure IaaS Concepts</p> <ul style="list-style-type: none"> ✓ Azure Virtual Machines ✓ SQL Server with Azure VM ✓ Access Azure VM from SSMS ✓ Migrations from PaaS ✓ Migrations from On-Premise ✓ Azure Data Studio, VMs ✓ Comparing SSMS & ADS Tool 	<p>Ch 39 – 40: Banking Project</p> <ul style="list-style-type: none"> ✓ OLTP Databases in Azure ✓ Code Based Deployments ✓ Code Less Deployments ✓ Debugging Phases in Azure ✓ Testing Phases in Azure ✓ Complete Project Solution ✓ Project FAQs, Resume Points

All sessions are practical, step by step.



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SQL Server TSQL SQL DBA Fabric

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Training Highlights

1. AI Integrated Sessions
2. Step by Step Classes
3. 100% Practical
4. RT Projects, Resume

- LIVE Online
- Self Paced Videos

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----- Thank you, All the best! -----