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Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **MSSQL / SQL Server 2025 TSQL Training** Course. With 20+ Years of technical expertise exclusively on SQL & Database Technologies, I assure **you 100% Practical, Step by Step Classes** for this MSSQL course. My Profile @ [www.linkedin.com/in/saiphanindra/](https://www.linkedin.com/in/saiphanindra/)

**Trainer: Mr. Sai Phanindra Tholeti**  
20+ Yrs of Expertize  
Alumni of Microsoft, Deloitte, Infosys, more ..!  
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# SQL Server **TSQL** Training Plans:

TRAINING PLAN	TRAINING MODULE	CONCEPTS	JOB ROLES	DURATION
<b>PLAN A</b>	1 MSSQL, TSQL Queries	Ch 1 to Ch 27	<ul style="list-style-type: none"> <li>Data Analysts</li> <li>Data Engineers</li> <li>Database Admins</li> </ul>	<b>3 Weeks</b>
<b>PLAN B</b>	<ol style="list-style-type: none"> <li>MSSQL, TSQL Queries</li> <li>TSQL Programming</li> <li>Query Tuning</li> </ol>	Ch 1 to Ch 42	<ul style="list-style-type: none"> <li>SQL Developers</li> <li>BI Developers</li> <li>Data Scientists</li> </ul>	<b>6 Weeks</b>
<b>PLAN C</b>	<ol style="list-style-type: none"> <li>MSSQL, TSQL Queries</li> <li>TSQL Programming</li> <li>Query Tuning</li> <li>Azure SQL Developer</li> </ol>	Ch 1 to Ch 51	<ul style="list-style-type: none"> <li>Data Analysts</li> <li>Data Engineers</li> <li>Developers</li> </ul>	<b>8 Weeks</b>

**Pre-requisites: None. We shall start from the basics.**

## 🔒 Detailed Course Content 🔒

*This detailed content with 100% Hands-On, Daily Assignments make you 100% Job ready!*

### Module 1: SQL Server TSQL (MS SQL) Queries

#### Ch 1: SQL Database Job Roles

- ✓ Introduction to Data
- ✓ Database Job Roles
- ✓ SQL Job Roles
- ✓ SQL Developer Jobs

#### Ch 2: Database Intro & Installations

- ✓ Database Intro, Types (OLTP, DWH, OLAP..)
- ✓ DBMS Concepts
- ✓ SQL Server 2025 Installations
- ✓ SSMS Tool Installation
- ✓ Server Connections, Authentications

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### **Ch 3: SQL Basics V1 (Commands)**

- ✓ Creating Databases (GUI)
- ✓ Creating Tables, Columns (GUI)
- ✓ SQL Basics (DDL, DML, etc..)
- ✓ Creating Databases, Tables
- ✓ Data Inserts (GUI, SQL)
- ✓ Basic SELECT Queries

### **Ch 4: SQL Basics V2 (Commands, Operators)**

- ✓ DDL: Create, Alter, Drop, Add, modify, etc..
- ✓ DML: Insert, Update, Delete, select into, etc..
- ✓ DQL: Fetch, Insert... Select, etc..
- ✓ SQL Operations: LIKE, BETWEEN, IN, etc..
- ✓ Special Operators

### **Ch 5: Excel Data Imports**

- ✓ Data Imports with Excel
- ✓ Order By: Asc, Desc
- ✓ Order By with WHERE
- ✓ TOP & OFFSET
- ✓ UNION, UNION ALL

### **Ch 6: Data Types**

- ✓ Integer Data Types
- ✓ Character, MAX Data Types
- ✓ Decimal & Money Data Types
- ✓ Boolean & Binary Data Types
- ✓ Date and Time Data Types
- ✓ SQL\_Variant Type

### **Ch 7: Schemas & Batches**

- ✓ Schemas: Creation, Usage
- ✓ Schemas & Table Grouping
- ✓ Real-world Banking Database
- ✓ 2 Part, 3 Part & 4 Part Naming
- ✓ Batch Concept & "Go" Command

### **Ch 8: Constraints, Keys & RDBMS**

- ✓ Null, Not Null Constraints
- ✓ Unique Key Constraint
- ✓ Primary Key Constraint
- ✓ Foreign Key & References
- ✓ Default Constraint & Usage
- ✓ DB Diagrams & ER Models

### **Ch 9: Normal Forms & Modeling**

- ✓ Normal Forms: 1 NF, 2 NF
- ✓ 3 NF, BCNF and 4 NF
- ✓ Self Referencing Keys
- ✓ Cascading Keys
- ✓ Adding PK to Tables
- ✓ Adding FK to Tables

### **Ch 10: Joins & Queries**

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data
- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Cross Join & Table Combination
- ✓ Joining more than 2 tables

### **Ch 11: Group By & Join Queries**

- ✓ Group By, Distinct Keywords
- ✓ GROUP BY, HAVING
- ✓ Cube( ) and Rollup( )
- ✓ Sub Totals & Grand Totals
- ✓ Grouping( ) & Usage
- ✓ Group By with Joins

### **Ch 12: Sub Queries & Joins**

- ✓ Sub Queries Concept
- ✓ Sub Queries & Aggregations
- ✓ Joins with Sub Queries
- ✓ Sub Queries with Aliases
- ✓ Sub Queries, Joins, Where
- ✓ Correlated Queries
- ✓ Joins with Sub Queries
- ✓ Query Execution Order

### **Ch 13: Views & Data Analytics**

- ✓ Views: Realtime Usage
- ✓ Storing SELECT in Views
- ✓ DML, SELECT with Views
- ✓ Using Views with Excel
- ✓ Excel Pivot Tables
- ✓ Excel Pivot Charts
- ✓ Important System Views

### **Ch 14: Stored Procedures - 1**

- ✓ Stored Procedures: Realtime Use
- ✓ Parameters Concept with SPs
- ✓ Procedures with SELECT

- ✓ System Stored Procedures
- ✓ Metadata Access with SPs
- ✓ SP Recompilations
- ✓ Stored Procedures, Tuning

### **Ch 15: Stored Procedures - 2**

- ✓ Merge Statement
- ✓ Upsert Operations with Merge
- ✓ Merge with OLTP & DWH
- ✓ Matched and Not Matched
- ✓ Merge Statement inside SPs

### **Ch 16: User Defined Functions**

- ✓ Using Functions in MSSQL
- ✓ Scalar Functions in Real-world
- ✓ Inline & Multiline Functions
- ✓ Parameterized Queries
- ✓ Date & Time Functions
- ✓ String Functions & Queries
- ✓ Aggregated Functions & Usage

### **Ch 17: Window Functions, CASE**

- ✓ IIF Function and Usage
- ✓ CASE Statement Usage
- ✓ Window Functions (Rank)
- ✓ Row\_Number( )
- ✓ Rank( ), DenseRank( )
- ✓ Partition By & Order By

### **Ch 18: Triggers & Automations**

- ✓ Need for Triggers in Real-world
- ✓ DDL & DML Triggers
- ✓ For / After Triggers
- ✓ Instead Of Triggers
- ✓ Memory Tables with Triggers
- ✓ Disabling DMLs & Triggers

### **Ch 19: Transactions & ACID**

- ✓ Transaction Concepts in OLTP
- ✓ Auto Commit Transaction
- ✓ Explicit Transactions
- ✓ COMMIT, ROLLBACK
- ✓ Checkpoint & Logging
- ✓ Lock Hints & Query Blocking
- ✓ READPAST, LOCKHINT

### **Ch 20: Indexes Basics, Tuning**

- ✓ Indexes & Tuning
- ✓ Clustered Index, Primary Key
- ✓ Non Clustered Index & Unique
- ✓ Creating Indexes Manually
- ✓ Composite Keys, Query Optimizer
- ✓ Composite Indexes & Usage

### **Ch 21: CTEs & Tuning**

- ✓ Common Table Expression
- ✓ Creating and Using CTEs
- ✓ CTEs, In-Memory Processing
- ✓ Using CTEs for DML Operations
- ✓ Using CTEs for Tuning
- ✓ CTEs: Duplicate Row Deletion

### **Ch 22: Cursors & Fetch**

- ✓ Cursors: Realtime Usage
- ✓ Local & Global Cursors
- ✓ Scroll & Forward Only Cursors
- ✓ Static & Dynamic Cursors
- ✓ Fetch, Absolute Cursors

### **Ch 23: Temporary Tables**

- ✓ TempDB: Realtime Use
- ✓ Local Temporary Tables
- ✓ Global Temporary Tables
- ✓ Testing & Using Temp Tables
- ✓ Temp Tables across Sessions
- ✓ Auto CreateTables using Select
- ✓ SELECT .. INTO & Bulk Loads

### **Ch 24: Linked Servers**

- ✓ Creating Linked Servers
- ✓ Testing Linked Servers
- ✓ Remote Joins
- ✓ Correlated Queries
- ✓ Remote DB Access
- ✓ 4 Part Naming Conventions

### **Ch 25: Server Architecture**

- ✓ Database Engine Components
- ✓ Parser, Compiler & Optimizer
- ✓ Protocols and Query Processing
- ✓ MDAC, CLR & Memory
- ✓ Parsing and Compilation
- ✓ SQL OS Components

## Ch 26: Realtime Case Study: Healthcare Scenario (Design)

## Ch 27: Realtime Case Study: Healthcare Scenario (Queries)

### Module 2: TSQL Programming

#### Ch 28: Variables & Try..Catch

- ✓ Variables: Declaration & Usage
- ✓ Assigning Values to Variables
- ✓ SELECT & SET Operations
- ✓ Using Variables in SPs
- ✓ Variables Versus Parameters
- ✓ Try.. Catch Block with Variables
- ✓ THROW Statement, Error Handling

#### Ch 29: Updatable Views

- ✓ 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 30: Stored Procedures & TVPs

- ✓ Using TVP with Procedures
- ✓ Creating User Defined Types
- ✓ Big Data Copy & Transactions
- ✓ Using SPs & Table Variables
- ✓ Transactional Integrity with SPs
- ✓ Conditional Commits, Rollbacks
- ✓ Procedure Recompilations

#### Ch 31: Stored Procedures, Cursors

- ✓ Cursors Types: Local, Global
- ✓ Using Procedures with Cursors
- ✓ Formatting Queries, Nvarchar
- ✓ WHILE Loop: @Fetch Status
- ✓ Variables with Dynamic SQL
- ✓ sp\_executesql Extended SP
- ✓ Dynamic SQL Programming

#### Ch 32: SPs & Recursive CTEs

- ✓ CTEs: Common Table Expression
- ✓ CTEs For DML Operations
- ✓ Defining Recursive CTEs
- ✓ Anchor Element: Realtime Use

- ✓ Termination Checks and Loops
- ✓ Defining SPs with CTEs
- ✓ Cautions with Recursive CTEs

### **Ch 33: Functions & Loops**

- ✓ 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 34: OpenRowSet, Debugging**

- ✓ Reading JSON Data
- ✓ Using OPENROWSET( )
- ✓ OpenRowSet with Variables
- ✓ Debugging Stored Procedures
- ✓ Debugging Types in TSQL
- ✓ Debugging Techniques with SSMS
- ✓ Debug Options with Variables

### **Ch 35: PIVOT, UNPIVOT**

- ✓ Reading Denormalized Data
- ✓ Normalizing Table Data
- ✓ PIVOT Operation with TSQL
- ✓ PIVOT with Aggregates
- ✓ FOR and IN Operators
- ✓ UNPIVOT with TSQL
- ✓ PIVOT with Functions, SPs

### **Ch 36: Temporary Tables**

- ✓ TempDB: Realtime Use
- ✓ Local Temporary Tables
- ✓ Global Temporary Tables
- ✓ Testing & Using Temp Tables
- ✓ Temp Tables across Sessions
- ✓ Auto CreateTables using Select
- ✓ SELECT .. INTO & Bulk Loads

### **Ch 37: Change Data Capture**

- ✓ CDC Concept
- ✓ Database Level CDC
- ✓ Table Level CDC
- ✓ CT Tables (Change Tracking)
- ✓ \_\_\$operation fields
- ✓ DDL & DML Tracking

## Module 3: Query Tuning

### Ch 38: Tuning : Indexes

- ✓ Indexes : Sort Locations
- ✓ Clustered & Online Indexes
- ✓ Non Clustered, Column Store
- ✓ Included Indexes in Realtime
- ✓ Filtered Indexes & Usage
- ✓ Covering Index & Selectivity
- ✓ Indexed Views (Materialized)

### Ch 39: Tuning: Partitions

- ✓ Partitions: Performance Tuning
- ✓ Partition Functions & Schemes
- ✓ Partition Un-partitioned Tables
- ✓ Compressions: ROW, PAGE
- ✓ Auditing Partitions
- ✓ Partitions Limitations in OLTP
- ✓ Partitions with DWH

### Ch 40: DB Architecture (VLDB)

- ✓ Planning Large Databases
- ✓ Primary, Secondary Data Files
- ✓ Filegroups, Spacing and Sizing
- ✓ Log File: Usage and Precautions
- ✓ Creating Tables with Filegroups
- ✓ Pages and Extents for Storage
- ✓ VLF, MiniLSN & Checkpoint

### Ch 41: Lock Management

- ✓ Open Transactions in Realtime
- ✓ Open Transaction, Blocking
- ✓ LOCKS: Types & Audits
- ✓ S, X, IX, U and MD Locks
- ✓ Sch-M and Sch-S Locks
- ✓ SP\_WHO2, SP\_LOCK
- ✓ sysprocesses & Lock Waits

### Ch 42: Isolation Levels

- ✓ Lock Hints and Isolation Levels
- ✓ Read Committed, Uncommitted
- ✓ Serializable, Repeatable Read
- ✓ Snapshot Isolation, Versioning
- ✓ Read Committed Snapshot
- ✓ Choosing Correct Isolation Level

## Module 4: Azure SQL Dev

### Ch 43: Cloud Basics, Azure Funda

- ✓ Cloud Fundamentals
- ✓ Cloud Concepts, Benefits
- ✓ IaaS, PaaS, SaaS Cloud Types
- ✓ Azure Cloud Concepts
- ✓ Azure Resources & Usage
- ✓ Azure Services & Purpose
- ✓ Azure Account & Subscription

### Ch 44: Azure SQL Deployments

- ✓ 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 45: Azure SQL DB Operations

- ✓ Azure SQL : DDL Statements
- ✓ Azure SQL: DML Statements
- ✓ Azure SQL: DQL Statements
- ✓ TCL & DCL Commands
- ✓ Differences with OnPrem
- ✓ Azure SQL DB Advantages

### Ch 46: Azure SQL DB Migrations

- ✓ 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

### Ch 47: Azure SQL DB Licensing

- ✓ 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

### Ch 48: Azure SQL DB Metrics

- ✓ Azure SQL DB Metrics
- ✓ CPU, Memory, Log Metrics
- ✓ Data File Metrics, Alerts
- ✓ Action Groups & Emails
- ✓ Query Performance Insight
- ✓ Automated Tuning Options
- ✓ Query Recommendations

### Ch 49: Azure SQL DB Tuning, AI

- ✓ Automated Tuning Options
- ✓ Manual Tuning Options
- ✓ Server Level Tuning
- ✓ Database Level Tuning
- ✓ Create Index Option
- ✓ Drop Index, Seek Options
- ✓ Built-In Intelligence

### Ch 50: Azure AI Search

- ✓ AI Search Service, Tuning
- ✓ AI Indexes, Practical Use
- ✓ Watermark Columns
- ✓ Triggers & Timestamp
- ✓ Filterable, Searchable
- ✓ Indexer & Data Refresh

### Ch 51: Realtime Project

- 👉 Realtime Project For your Resume: End to End Project
- 👉 Resume Guidance (1:1)
- 👉 Mock Interview Project

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