

A promotional banner for SQL School's AI training. The banner features a dark blue background with a glowing blue head silhouette containing an 'AI' chip. On the right, a man in a grey blazer stands with arms crossed. The text 'SQL School' is at the top left, with 'Learn | Practice | Build | Succeed' below it. The main title 'SQL with AI' is in large, colorful letters, followed by 'TRAINING FROM SQL SCHOOL'. Below this is the tagline 'Master SQL. Leverage AI. Build Real-World Skills. Advance Your Career.' The banner is divided into sections: 'Trainer: Mr. Sai Phanindra Tholeti, Alumni of Microsoft' with a LinkedIn profile link; 'TRAINING HIGHLIGHTS' including 'Step-by-step Classes', '100% Interactive', 'Projects for Resume', and 'Job Assistance, Mocks'; and a bottom section with 'In-depth SQL Concepts', 'AI Integration with SQL', 'Real-World Projects', and 'Career Support You Can Count On'. At the bottom, there's a 'BOOK YOUR FREE DEMO' button, the website 'www.sqlschool.com', and WhatsApp contact numbers '+91 9666440801'.

Hi! 🙌 Thank you for contacting **SQL School**.

I'm **Mr. Sai Phanindra**, your trainer for the **Microsoft SQL Server (T-SQL) Training**.

With **20+ years of experience** in SQL & Database Technologies, I've worked with **Microsoft, Deloitte, and Infosys**. I provide **100% practical, step-by-step training** with real-time examples and interview preparation.

🔗 LinkedIn: www.linkedin.com/in/saiphanindra/

Looking forward to seeing you in the FREE demo session! 😊

Why my Microsoft SQL Training is so comprehensive, far different from others?

- ✓ 100% Practical Hands-on Training
- ✓ 5 Real-Time Industry Projects
- ✓ 500+ Interview Questions
- ✓ 200+ Assignments
- ✓ Resume Building
- ✓ LinkedIn Profile Optimization
- ✓ GitHub Portfolio
- ✓ Mock Interviews
- ✓ DP-800 Guidance
- ✓ Lifetime Community Support

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

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MSSQL / TSQL TRAINING PLANS

Practical. Project-Based. Career-Focused.

PLAN	TRAINING MODULES	DURATION	RESUME TAKE-AWAYS	TARGET AUDIENCE
PLAN A ★★★★★	1 MSSQL, TSQL Queries	4 WEEKS	✓ 1 Capstone Project	Useful for Everyone
PLAN B ★★★★★	1 MSSQL, TSQL Queries 2 TSQL Programming, Tuning	6 WEEKS	✓ 1 Capstone Project ✓ 1 Realtime Project	Useful for SQL Developers
PLAN C ★★★★★	1 MSSQL, TSQL Queries 2 TSQL Programming, Tuning 3 TSQL @ Azure, Fabric + DP800	8 WEEKS	✓ 1 Capstone Project ✓ 2 Realtime Projects	Useful for SQL Developers

100% PRACTICAL
Hands-on Learning

REAL-TIME PROJECTS
Build Job-Ready Skills

CAREER GROWTH
Upgrade Your Future

EXPERT GUIDANCE
Learn from Industry Experts

LEARN. PRACTICE. IMPLEMENT. SUCCEED!

👂 Detailed Course Content 👂

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

Module 1: SQL Server (MSSQL), TSQL

Ch 1: SQL Database Job Roles

- ✓ Database Intro
- ✓ OLTP, DWH, OLAP
- ✓ DBMS Basics
- ✓ Database Job Roles

Ch 2: Database Intro & Installations

- ✓ SQL Server Installations
- ✓ Instance & Collations
- ✓ SSMS Tool Installation
- ✓ Connections, Authentications

Ch 3: SQL Basics V1 (Commands)

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

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Ch 4: SQL Basics V2 (Commands, Operators)

- ✓ DDL: Create, Alter, Drop
- ✓ DML: Insert, Update, Delete
- ✓ DQL: Select, Fetch
- ✓ Add, Truncate Statements
- ✓ SQL Operators

Ch 5: Data Types & Variables

- ✓ Integer Data Types
- ✓ Character, MAX Data Types
- ✓ Decimal & Boolean Data Types
- ✓ Date and Time Data Types
- ✓ SQL_Variant Type

Ch 6: Data Imports From Files

- ✓ Data Imports with Excel
- ✓ Data Imports with CSV
- ✓ Auto Detection of DataTypes
- ✓ OLE-DB Connections
- ✓ Order By, TOP, OFFSET

Ch 7: Sub Queries

- ✓ Basic Sub Queries
- ✓ Aggregations
- ✓ Combining Queries
- ✓ UNION, UNION ALL

Ch 8: Schemas & Batches

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

Ch 9: Constraints, Keys & RDBMS

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

Ch 10: Normal Forms & RDBMS

- ✓ Normal Forms: 1 NF, 2 NF
- ✓ 3 NF, BCNF and 4 NF
- ✓ 1:1, 1:M, M:1 Cardinality
- ✓ Cascading Keys
- ✓ Self Referencing Keys

Ch 11: Joins & Queries

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data
- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Self Joins & Aliases

Ch 12: Views & RLS

- ✓ Views: Realtime Usage
- ✓ DML, SELECT with Views
- ✓ Excel Analytics with Views
- ✓ Important System Views

Ch 13: Stored Procedures - 1

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

Ch 14: Stored Procedures - 2

- ✓ Merge Statement (Upsert)
- ✓ Merge with OLTP & DWH
- ✓ Matched and Not Matched
- ✓ Merge Statement inside SPs
- ✓ SP Recompilations

Ch 15: User Defined Functions - 1

- ✓ Scalar Functions in Real-world
- ✓ Inline & Multiline Functions
- ✓ Parameterized Queries
- ✓ Variables & Parameters
- ✓ Function Executions

Ch 16: User Defined Functions - 2

- ✓ Date & Time Functions
- ✓ String Functions & Queries
- ✓ Aggregated Functions & Usage
- ✓ Window Functions (Rank)
- ✓ Row_Number, DenseRank
- ✓ Partition By & Order By

Ch 17: 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 18: Group By Queries

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

Ch 19: Joins with Group By

- ✓ 3 Table, 4 Table Joins
- ✓ Join Queries & WHERE
- ✓ Join Queries & Group By
- ✓ IIF(), CASE Statement
- ✓ Query Execution Order

Ch 20: Transactions & ACID

- ✓ Auto Commit Transaction
- ✓ Explicit Transactions
- ✓ COMMIT, ROLLBACK
- ✓ Checkpoint & Query Blocking
- ✓ READPAST, LOCKHINT

Ch 21: Indexes Basics, Tuning

- ✓ Clustered Index, Primary Key
- ✓ Non Clustered Index
- ✓ Query Optimizer
- ✓ Tuning Join Queries
- ✓ Tuning Group By Queries

Ch 22: CTEs & Tuning

- ✓ Common Table Expression
- ✓ CTEs for Data Retrieval
- ✓ CTEs for DML Operations
- ✓ CTEs for Data Cleansing
- ✓ Using CTEs with Row Number

Ch 23: Cursors & Temp Tables

- ✓ Cursors & Fetch
- ✓ Scroll, Absolute Types
- ✓ Local Temp Tables
- ✓ Global Temp Tables
- ✓ SELECT..INTO Statement

Ch 24: SQL Server Architecture

- ✓ Network Protocols

- ✓ Storage Engine
- ✓ Query Processing Engine
- ✓ Query Execution Order
- ✓ SQL OS Components

Ch 25: Capstone Project (HealthCare Management System)

- ✓ ECommerce Database
- ✓ Data Validations
- ✓ Query Writing
- ✓ Query Tuning
- ✓ Excel Analytics

Module 2: Query Tuning

Ch 26: Tuning : Indexes

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

Ch 27: Tuning: Partitions

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

Ch 28: Statistics & Tuning

- ✓ Statistics: Realtime Usage
- ✓ Index & Column Statistics
- ✓ Statistics & Key Purpose
- ✓ Statistics Versus Indexes
- ✓ Stats Updates

Ch 29: Index Management

- ✓ Index Management Options
- ✓ Index Rebuilds, Re-Organize
- ✓ Database Maintenance Plans
- ✓ Page Count and Index Conditions
- ✓ Resumable & Online Indexes

Ch 30: Tuning Tools

- ✓ Tuning Tools: Workload Files
- ✓ Profiler Tuning, Events
- ✓ DTA, Profiler Options
- ✓ Physical Design Structures

- ✓ PDS Recommendations
- ✓ Query Execution Cache
- ✓ Tuning Tools: Precautions

Ch 31: Execution Plans

- ✓ Execution Plan Analysis
- ✓ IO Cost and CPU Cost
- ✓ SubTree & Operator Cost
- ✓ NUMA Nodes, Processor Affinity
- ✓ Thread Count, DOP
- ✓ Table & Index Scan, Index Seek
- ✓ Index Selectivity & Tuning

Ch 32: 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 33: Isolation Levels

- ✓ Lock Hints and Isolation Levels
- ✓ Read Committed, Uncommitted
- ✓ Serializable, Repeatable Read
- ✓ Snapshot Isolation, Versioning
- ✓ Read Committed Snapshot
- ✓ sysprocesses & sp_who2
- ✓ Choosing Correct Isolation Level

Ch 34: Deadlocks, LIVE Locks

- ✓ Deadlocks in Real-world
- ✓ Profiler Tool & Deadlocks
- ✓ Lock Management: Deadlocks
- ✓ Deadlock Graphs & Events
- ✓ Deadlock Avoidance, Prevention
- ✓ Deadlock Prevention
- ✓ sysprocesses & sp_who2

Ch 35: Real-Time Case Study For Query Tuning

Module 3: TSQL Programming

Ch 36: Variables & Try..Catch

- ✓ Variables: Declaration & Usage
- ✓ Assigning Values to Variables
- ✓ SELECT & SET Operations

- ✓ Try.. Catch Block with Variables
- ✓ THROW Statement, Error Handling

Ch 37: Updatable Views

- ✓ Using Triggers with Views
- ✓ Updatable Views, DML
- ✓ Views & Stored Procedures
- ✓ Data Distributions in Tables
- ✓ Conditional Commits in SPs
- ✓ Rollback Options in Realtime

Ch 38: Stored Procedures & TVPs

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

Ch 39: Stored Procedures, Cursors

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

Ch 40: SPs & Recursive CTEs

- ✓ CTEs: Common Table Expression
- ✓ CTEs For DML Operations
- ✓ Defining Recursive CTEs
- ✓ Anchor Element: Realtime Use
- ✓ Termination Checks and Loops
- ✓ Cautions with Recursive CTEs

Ch 41: Functions & Loops

- ✓ Inline, Table Line Functions
- ✓ Multi Line Table Functions
- ✓ Using LOOPS in Functions
- ✓ Table Generation Logic
- ✓ Date & Time Data Types
- ✓ Calendar Data Generations

Ch 42: Open Fuzzy Logic, Debugging

- ✓ EDIT_DISTANCE_SIMILARITY
- ✓ JARO_WINKLER_DISTANCE
- ✓ MATCH Operator, OPENROWSET

- ✓ JSON_OBJECT
- ✓ JSON_ARRAY
- ✓ JSON_ARRAYAGG
- ✓ JSON_CONTAINS

Ch 43: PIVOT, UNPIVOT

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

Ch 44: Change Data Capture

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

Real-Time Project

- ✓ **Banking Transaction Management System using SQL Server & T-SQL**
 - ✓ Customer Account Management
 - ✓ Savings / Current Account Tables
 - ✓ Account Opening & KYC Data
 - ✓ Deposit and Withdrawal Transactions
 - ✓ Fund Transfer Between Accounts
 - ✓ Transaction History Report
 - ✓ Daily, Monthly, Yearly Statements
 - ✓ Stored Procedures for Banking Operations
 - ✓ Views for Customer & Account Reports
 - ✓ Functions for EMI, Interest & Balance Calculation
 - ✓ Triggers for Audit Tracking

Module 4: SQL Server in Cloud (Azure, Fabric)

Ch 45: Cloud Basics, Azure Funda

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

Ch 46: Azure SQL Deployments

- ✓ Azure SQL Services
- ✓ Azure SQL Server Creation

- ✓ Azure SQL Databases
- ✓ Azure Firewall: Rules
- ✓ SSMS Tool: Test Connections

Ch 47: Azure Storage Accounts

- ✓ Azure Storage Account
- ✓ Azure Data Lake Storage (ADLS)
- ✓ Azure BLOB Data
- ✓ Containers & File Uploads
- ✓ Azure Tables

Ch 48: 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

Ch 49: Azure SQL DB Metrics

- ✓ Azure SQL DB Metrics
- ✓ CPU, Memory, Log Metrics
- ✓ Data File Metrics, Alerts
- ✓ Azure Action Groups
- ✓ Azure Notifications

Ch 50: Azure SQL DB Tuning, AI

- ✓ Automated Tuning Options
- ✓ Server Level Tuning
- ✓ Database Level Tuning
- ✓ Watermark Columns
- ✓ Filterable, Searchable
- ✓ Indexer & Data Refresh

Ch 51: Azure Key Vaults

- ✓ Azure Encryptions at REST
- ✓ SMK & CML Concepts
- ✓ Azure Key Vaults
- ✓ Azure Keys
- ✓ Key Access Policies

Ch 52: Azure Functions

- ✓ Creating, Using Functions
- ✓ Azure Functions with TSQL
- ✓ TSQL Debugging
- ✓ Testing Azure Functions

Ch 53: Regular Expressions

- ✓ REGEXP_LIKE
- ✓ REGEXP_REPLACE
- ✓ REGEXP_SUBSTR
- ✓ REGEXP_INSTR
- ✓ REGEXP_COUNT
- ✓ REGEXP_MATCHES
- ✓ REGEXP_SPLIT_TO_TABLE

Ch 54: TSQL in Microsoft Fabric

- ✓ Microsoft Fabric Concepts
- ✓ Fabric Account & Workspace
- ✓ Fabric Warehouse Creation
- ✓ TSQL in Fabric Warehouse
- ✓ TSQL Events in Fabric

Ch 55: TSQL with AI, Co-Pilot

- ✓ CoPilot Concepts
- ✓ CoPilot Architecture
- ✓ CoPilot with TSQL
- ✓ CoPilot in Fabric
- ✓ Model Context Protocol (MCP)
- ✓ GitHub Copilot
- ✓ MCP End Points

Ch 56: DP-800 Exam Guidance

- DP-800 Certification Overview
- Exam Objectives & Latest Syllabus
- AI & GitHub Copilot for SQL Development
- Exam Scenario-Based Questions
- Exam Mocks
- Exam Preparation Guidance

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-  100% Practical Training
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