



I'm **Mr. Sai Phanindra**, your trainer for this **Performance Tuning (Query Tuning)** Course. 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 Projects. Lets connect at: www.linkedin.com/in/saiphanindra/

Query Training (MSSQL / TSQL)

Master SQL Server and T-SQL Query Tuning through practical, project-based learning. Start with database concepts and progress into monitoring, advanced tuning, Query Store, AI Enabled SQL Tuning and Real-Time Project.

This Training is very useful for

- ✓ SQL Developers
- ✓ BI Developers
- ✓ ETL Developers
- ✓ Azure SQL Developers
- ✓ Data Engineers
- ✓ Senior Data Analysts

By the End of This Training, You Will Be Able To:

- ✓ Optimize relational databases and tables
- ✓ Tune complex T-SQL queries
- ✓ Tune joins, CTEs, subqueries and analytical queries
- ✓ Tune stored procedures, functions, views and triggers
- ✓ Implement transactions and error handling
- ✓ Analyze and optimize slow SQL queries
- ✓ Understand execution plans
- ✓ Design and optimize indexes
- ✓ Manage database solutions for real business requirements

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Who Should Join?

- ✓ Developers who want strong SQL skills
- ✓ Data Analysts who need advanced SQL Tuning
- ✓ ETL/Data Engineering aspirants
- ✓ Existing SQL Developers wanting query-tuning skills
- ✓ Professionals preparing for Azure/Fabric SQL roles

Prerequisites

Basic knowledge on Microsoft SQL (MSSQ) is mandatory for this course.

If you are new to Microsoft Databases, pls opt for our complete [Microsoft SQL Course](#).

What Learners Receive

- ✓ Live practical training
- ✓ Daily hands-on assignments
- ✓ Practice database/scripts
- ✓ SQL interview preparation
- ✓ Resume guidance
- ✓ Mock interview

Training Modes

- LIVE Online Training (Highly Interactive)
- Self-Paced Video Training (Latest, Detailed. Step by step)

Detailed Course Content

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

Ch 1: Performance Tuning Fundamentals

- ✓ Query Monitoring
- ✓ Server Dashboards
- ✓ Server Logs
- ✓ Identify CPU/IO Queries
- ✓ Identify Long Running Queries
- ✓ DMVs, DMFs For Query Audits

Ch 2: Query Store

- ✓ Query Store Concept
- ✓ Configure Query Store
- ✓ History Retention
- ✓ Query Store Settings

Ch 3: Tuning: Indexes

- ✓ Indexes: Sort Locations
- ✓ Clustered & Online Indexes
- ✓ Non Clustered, Column Store
- ✓ Included Indexes in Realtime

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- ✓ Filtered Indexes & Usage
- ✓ Indexed Views (Materialized)

Ch 4: Tuning: Partitions

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

Ch 5: Statistics & Tuning

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

Ch 6: Index Management

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

Ch 7: Tuning Tools

- ✓ Tuning Tools: Workload Files
- ✓ Profiler Tuning, Events
- ✓ DTA, Profiler Options
- ✓ Physical Design Structures
- ✓ PDS Recommendations
- ✓ Query Execution Cache
- ✓ Tuning Tools: Precautions

Ch 8: Execution Plans - 1

- ✓ Execution Plan Analysis
- ✓ IO Cost and CPU Cost
- ✓ SubTree & Operator Cost
- ✓ Table & Index Scan, Index Seek
- ✓ Index Selectivity & Tuning

Ch 9: Execution Plans - 2

- ✓ Extended Events
- ✓ wait statistics
- ✓ sys.dm_exec_query_stats
- ✓ sys.dm_exec_requests
- ✓ sys.dm_exec_sessions
- ✓ Cache Plans

Ch 10: Server Management & Tuning

- ✓ Extended Events
- ✓ NUMA Nodes, Processor Affinity
- ✓ Thread Count, DOP
- ✓ MAXDOP
- ✓ Memory Grants
- ✓ Tempdb Contention/Spills
- ✓ Memory Pressure

Ch 11: 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 12: 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 13: 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 14: Deadlocks, LIVE Locks

- ✓ CPU waits
- ✓ I/O waits
- ✓ locking waits
- ✓ memory-related waits
- ✓ parallelism waits
- ✓ symptom & root cause

Ch 15: AI Enabled SQL, Tuning

- ✓ Installing AI Components
- ✓ Using AI in SQL

- ✓ SQL Queries with Prompts
- ✓ SQL Query Analysis
- ✓ Plan Regression
- ✓ Parameter Sniffing

Ch 16: Real-Time Project for Query Tuning

- ✓ Banking Scenario
- ✓ Big Data Management
- ✓ Lock Management
- ✓ Tuning Tools
- ✓ Isolation Levels
- ✓ Deadlock Management
- ✓ Capacity Issues, Solutions

 **Safeguard your job by mastering SQL & Query Tuning !**

 **Join Our Next Batch.**

-  **100% Practical Training**
-  **Real-Time Projects**
-  **Job Assistance**

For Free Demo:

 **Call/WhatsApp: +91 9951440801**

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Thank You!

for Enrolling in

SQL Server Performance Tuning (Query Tuning) Training

You've taken a great step towards building advanced SQL skills and becoming job-ready. We're excited to have you in this course!

-  **LIVE** Online Training
-  **Hands-on** Assignments
-  **Practice** Scripts & DBs
-  **Interview** Preparation
-  **Resume** Guidance
-  **Mock** Interviews

 **Let's Make You a SQL Expert!**

 **Check Your Email**
You will receive the course details, schedule, access information and next steps shortly.

 **Need Any Help?**
Reach us on WhatsApp

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