



DP 800

CERTIFICATION EXAM TRAINING

From **SQL School**





Module 1:	Database Concepts, MSSQL & TSQL Queries
Module 2:	TSQL Programming
Module 3:	TSQL Query Tuning
Module 4:	Azure SQL (TSQL) with AI
Module 5:	Logic Apps, Azure Functions with TSQL
Module 6:	Fabric SQL (TSQL) with AI
Module 7:	CoPilot & Git Hub
Module 8:	DP 800 Exam Guidance

TRAINING HIGHLIGHTS:

- Step-by-step Classes
- 100% Interactive
- Projects For Resume
- Job Assistance, Mocks



Trainer: Mr. Sai Phanindra Tholeti

Alumni of Microsoft

Trainer Profile: www.linkedin.com/in/saiphanindra

www.sqlschool.com

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+91 9666440801
+91 9666440801

Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **Microsoft DP 800 Exam Training** Course. With 20+ Years of technical expertise exclusively on SQL & Database Technologies, I assure you **100% Practical, Step by Step Classes**. My Profile @ www.linkedin.com/in/saiphanindra/

Why my Microsoft SQL Server TSQL (DP 800) 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

Career Opportunities

After completing this course, you can apply for:

- SQL Developer
- Data Analyst
- BI Developer

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- ETL Developer
- Azure SQL Developer
- Azure Data Engineer
- Microsoft Fabric Developer

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 Intro, Types
- ✓ OLTP, DWH, OLAP
- ✓ DBMS Concepts
- ✓ Database Job Roles
- ✓ Data Engineer Job Roles

Ch 2: Database Intro & Installations

- ✓ SQL Server Installations
- ✓ Instance Concepts
- ✓ Authentication Types
- ✓ Authentication Modes
- ✓ SSMS Tool Installation
- ✓ Connections, Authentications

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
- ✓ DML: Insert, Update, Delete
- ✓ DQL: Select, Fetch
- ✓ SQL Operators
- ✓ 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: Schemas & Batches

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

Ch 7: Constraints, Keys & RDBMS

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

Ch 8: Normal Forms & ERD

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

Ch 9: Joins Queries – Level 1

- ✓ Joins: Table Comparisons
- ✓ Inner Join & Outer Joins
- ✓ Cross Join & Cross Apply
- ✓ Table Combination
- ✓ Table & Column Aliases

Ch 10: Joins Queries – Level 2

- ✓ Group By & Aggregations
- ✓ Joins with Group By
- ✓ 3 Table, 4 Table Joins
- ✓ Join Queries with Aliases
- ✓ WHERE & HAVING
- ✓ Query Execution Order

Ch 11: Sub Queries

- ✓ Distinct & Union, Union All
- ✓ Sub Queries Concept
- ✓ Sub Queries & Aggregations
- ✓ Joins with Sub Queries
- ✓ Correlated Queries

Ch 12: Views & Data Analytics

- ✓ Views: Realtime Usage
- ✓ Storing SELECT in Views
- ✓ DML, SELECT with Views
- ✓ RLS: Row Level Security
- ✓ Data Analytics with Excel
- ✓ Important System Views

Ch 13: Stored Procedures – Level 1

- ✓ Stored Procedures: Realtime Use
- ✓ Procedures with SELECT
- ✓ System Stored Procedures
- ✓ Metadata Access with SPs
- ✓ Stored Procedures, Tuning

Ch 14: Stored Procedures – Level 2

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

Ch 15: Functions – Level 1

- ✓ Using Defined Functions (UDF)
- ✓ Scalar Functions in Real-world
- ✓ Table Valued Functions
- ✓ Parameterized Queries
- ✓ Returns and Return
- ✓ SP Versus Functions

Ch 16: Functions – Level 2

- ✓ Aggregated Functions
- ✓ Date & Time Functions
- ✓ String Functions
- ✓ Window Functions
- ✓ Rank, Row_Number
- ✓ DenseRank, Partition 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: Transactions & ACID

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

Ch 19: Indexes Basics, Tuning

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

Ch 20: CTEs & Tuning

- ✓ Common Table Expression
- ✓ Creating and Using CTEs
- ✓ CTEs, In-Memory Processing
- ✓ IIF(), CASE Statement
- ✓ Cube() and Rollup()
- ✓ Sub Totals & Grand Totals
- ✓ Grouping() & Usage

Ch 21: Data Types & Variables

- ✓ Integer Data Types
- ✓ Character, MAX Data Types
- ✓ Decimal & Money Data Types
- ✓ Boolean & Binary Data Types
- ✓ Date and Time Data Types
- ✓ SQL_Variant Type
- ✓ Variables in SQL
- ✓ Cursor Variable & Fetch

Ch 22: Temp Tables

- ✓ Local Temp Tables
- ✓ Global Temp Tables
- ✓ Testing Temp Tables
- ✓ SELECT..INTO Statement
- ✓ Bulk Copy Operations

Ch 23: SQL Server Architecture

- ✓ Network Protocols
- ✓ Query Execution Engine
- ✓ Parser, Compiler, Checkpoint
- ✓ SQL Manager, DB Manager
- ✓ Storage Engine, Locks

- ✓ SQL OS Components

Ch 24: Real-Time SQL Server Case Studies

- ✓ Healthcare Management System
 - Patient Records Management
 - Doctor Appointment Scheduling
 - Billing & Insurance Processing
 - Medical Reports Analysis
- ✓ E-Commerce Database
 - Customer & Product Management
 - Order Processing
 - Inventory Tracking
 - Sales Reporting

Module 2: Query Tuning

Ch 25: 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 26: 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 27: 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 28: 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 29: Isolation Levels

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

Real-Time Case Study For Query Tuning

- ✓ Healthcare Management System
 - Indexing & Tuning
 - Tuning Tools
 - Partitions, DTA Recommendations
 - Lock Management
 - Tuning Recommendations

Module 2: TSQL Programming

Ch 30: 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 31: 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 32: 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 33: 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 34: 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 35: 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 36: Open Fuzzy Logic, Debugging

- ✓ Using OPENROWSET ()
- ✓ EDIT_DISTANCE
- ✓ EDIT_DISTANCE_SIMILARITY
- ✓ JARO_WINKLER_DISTANCE
- ✓ MATCH Operator
- ✓ JSON_OBJECT, JSON_ARRAY
- ✓ JSON_ARRAYAGG, JSON_CONTAINS
- ✓ OPENJSON

Ch 37: 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 38: Change Data Capture

- ✓ CDC Concept
- ✓ Database Level CDC
- ✓ Table Level CDC
- ✓ CT Tables (Change Tracking)
- ✓ DDL & DML Tracking

Real-Time Project

- ✓ **Banking Transaction Management System using SQL Server & T-SQL**
 - ✓ Customer Account Management
 - ✓ Savings / Current Account Tables
 - ✓ Deposit and Withdrawal Transactions
 - ✓ Fund Transfer Between Accounts
 - ✓ Transaction History Report
 - ✓ Daily, Monthly, Yearly Statements
 - ✓ Loan Application & EMI Tracking
 - ✓ 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 39: 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 40: Azure SQL Deployments

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

Ch 41: Azure Storage Accounts

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

Ch 42: 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 43: Azure SQL DB Metrics

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

Ch 44: Azure SQL DB Tuning, AI

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

Ch 45: Azure Key Vaults

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

Ch 46: Azure Log Apps

- ✓ Azure Logic Apps
- ✓ Consumption Logic
- ✓ Standard Logic
- ✓ Logic App Connectors
- ✓ Triggers & Parallel Branches
- ✓ Data Governance

Ch 47: Azure Functions

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

Ch 48: Regular Expressions

- ✓ REGEXP_LIKE
- ✓ REGEXP_REPLACE
- ✓ REGEXP_SUBSTR
- ✓ REGEXP_INSTR

- ✓ REGEXP_COUNT
- ✓ REGEXP_MATCHES
- ✓ REGEXP_SPLIT_TO_TABLE

Ch 49: TSQL in Microsoft Fabric

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

Ch 50: TSQL with AI, Co-Pilot

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

Module 5: DP-800 Exam Guidance

- DP-800 Certification Overview
- Exam Objectives & Latest Syllabus
- SQL Server & Azure SQL Concepts Review
- Performance Tuning & Query Optimization
- Transactions & Concurrency Control
- Data Migration to Azure SQL
- Microsoft Fabric T-SQL Concepts
- AI & GitHub Copilot for SQL Development
- Exam Scenario-Based Questions

Bonus Inclusions

- ✓ DP-800 Study Notes (PDF)
- ✓ Practice Lab Scripts
- ✓ Mock Test Series
- ✓ Certification Preparation Checklist
- ✓ One-to-One Doubt Clarification Sessions

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