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Microsoft Azure

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Trainer **Mr. Sai Phanindra**

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Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **SQL DBA Training** Course. With 20+ Years of technical expertise exclusively on Database, Big Data and BI Technologies, I assure you 100% Practical, Step by Step Classes for this in-depth Azure Data Engineer course. My Profile @ [linkedin.com/in/saiphanindra/](https://www.linkedin.com/in/saiphanindra/)

This SQL DBA course has TWO Training Plans. Choose your preferred plan:

| SQL DBA Training Plans | | | |
|------------------------|-------------------------------------|----------|---------------------|
| Training Plan | Modules Included | Duration | Number of Projects |
| Plan A | 1. Core SQL DBA | 6 Weeks | 1 Realtime Project |
| Plan B | 1. Core SQL DBA 2. Azure SQL DBA | 9 Weeks | 2 Realtime Projects |

Training Modes: **LIVE Online Training**, **Self-Paced Videos**.

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Detailed Course Content

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

Module 1: Database Concepts, Core SQL DBA

Ch 1: SQL Database Job Roles

- ✓ Introduction to Databases
- ✓ DBA Job Roles
- ✓ Routine DBA Activities
- ✓ Emergency DBA Activities
- ✓ SQL DBA Job Scope, Job Growth

Ch 2: Database Intro & Installations

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

Ch 3: SQL Basics

- ✓ SQL Basics (DDL, DML, etc..)
- ✓ Creating Databases
- ✓ Creating Tables, Columns
- ✓ Data Inserts (SQL)
- ✓ 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: 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, Variables

Ch 6: Excel Data Imports

- ✓ Data Imports with Excel
- ✓ SQL Native Client

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

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, Primary Key Constraints
- ✓ Foreign Key & References
- ✓ Default, Check Constraints
- ✓ DB Diagrams & ER Models
- ✓ Normal Forms

Ch 9: Joins & Audits

- ✓ 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 10: Views & RLS

- ✓ Views: Realtime Usage
- ✓ Storing SELECT in Views
- ✓ DML, SELECT with Views
- ✓ RLS: Row Level Security
- ✓ WITH CHECK OPTION
- ✓ Important System Views

Ch 11: Stored Procedures

- ✓ Stored Procedures: Realtime Use
- ✓ Parameters Concept with SPs
- ✓ Procedures with SELECT
- ✓ System Stored Procedures
- ✓ Metadata Access with SPs
- ✓ SP Recompilations
- ✓ Stored Procedures, Tuning

Ch 12: 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 13: Transactions & ACID

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

Ch 14: 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 15: Linked Servers

- ✓ SQL Server Instances
- ✓ Linked Server : Creation
- ✓ Linked Server : Testing
- ✓ Scripting Linked Servers
- ✓ Realtime Usage @ DBA
- ✓ Remote DB Access
- ✓ Remote Joins

Ch 16: Server Architecture

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

Ch 17: 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 18: Backups

- ✓ Database Backups & Types
- ✓ DB, Filegroup, File Backups
- ✓ Copy Only Backups, Usage
- ✓ Partial Backups, Split Backups
- ✓ Mirror Backups
- ✓ Backup Verifications
- ✓ Checksum, ContinueOnError

Ch 19: Restores

- ✓ DB, Filegroups, File Restores
- ✓ GUI Restores: Limitations
- ✓ Restoring & Online States
- ✓ FILELISTONLY
- ✓ MOVE Options with Restores
- ✓ Standby Mode Restores
- ✓ Point-In-Time (PITR) Restores

Ch 20: Jobs, Maintenance

- ✓ SQL Server Agent Service
- ✓ Job Steps & Schedules
- ✓ MSDB: Job History
- ✓ DB Maintenance Plans
- ✓ Backup Maintenance
- ✓ Job Verifications, Scripts
- ✓ Common Errors, Solutions

Ch 21: DB Mail & Alerts

- ✓ SMTP Concepts
- ✓ Creating Email Profile
- ✓ Default, Public Profiles
- ✓ Creating SMTP Accounts
- ✓ Alert System : Agent Settings
- ✓ Creating Operators
- ✓ Job Failures & Notifications

Ch 22: Security Management

- ✓ Security Objects, Logins
- ✓ Users, Roles & Principals
- ✓ Schema Level Security
- ✓ Object, Column Level Security
- ✓ Security Audit, Logon Failures

- ✓ Keys & Certificates
- ✓ Encryptions & Data Security

Ch 23: DB Migrations

- ✓ Creating Credentials
- ✓ Creating SSIS Proxies
- ✓ Creating CDW Packages
- ✓ Database Detach – Attach
- ✓ SMO Migration Method
- ✓ DB Migration Schedules
- ✓ Detect, Fix Orphan Users

Ch 24: Tuning: Audits, AM Tool

- ✓ Activity Monitor Tool
- ✓ Perfmon Tool & Counters
- ✓ Query Audits: DMVs, DMFs
- ✓ Plan Handle, Execution Time
- ✓ Long Running Queries
- ✓ Query Store & Buffer Cache
- ✓ Data Flush, Stats Collection

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: Statistics & Tuning

- ✓ Statistics: Realtime Usage
- ✓ Index & Column Statistics
- ✓ Statistics & Key Purpose
- ✓ Verifying, Using Stats
- ✓ Statistics Versus Indexes
- ✓ Stats Updates on Tables
- ✓ Stats Updates on Views

Ch 28: Index Management

- ✓ Index Management Options
- ✓ Index Rebuilds, Re-Organize
- ✓ Database Maintenance Plans
- ✓ Page Count and Index Conditions
- ✓ Degree Of Parallelism Settings
- ✓ Resumable & Online Indexes
- ✓ PAUSE, RESUME in Rebuilds

Ch 29: Tuning Tools

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

Ch 30: 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 31: 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 32: 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 33: 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 34: Recovery Models

- ✓ Recovery Models
- ✓ Database Properties
- ✓ Full Recovery Model
- ✓ Simple & Bulk Logged
- ✓ Realtime Uses
- ✓ Backups Versus Recovery Models

Ch 35: HA DR @ Replication - 1

- ✓ Replication : Realtime Usage
- ✓ Distributor Configurations
- ✓ Publisher and Subscriber
- ✓ Replication Types: Snapshot
- ✓ Transactional Replication
- ✓ Log Reader Agent & Usage
- ✓ Replication Monitor, Alerts

Ch 36: HA DR @ Replication - 2

- ✓ Merge Replication & Usage
- ✓ Peer – Peer Replication
- ✓ Push & Pull Subscriptions
- ✓ Conflict Detection, Avoidance
- ✓ Scripting Replication Agents
- ✓ Limitations with Replication
- ✓ Common Errors, Solutions

Ch 37: HA DR @ Log Shipping

- ✓ Log Shipping Configurations
- ✓ Primary, Secondary Servers
- ✓ Working with Network Shares
- ✓ Jobs: Backup, Copy, Restore
- ✓ NORECOVERY, STANDBY
- ✓ Manual Failover Process
- ✓ Common Errors, Solutions

Ch 38: HA DR @ DB Mirroring

- ✓ Database Mirroring Concepts
- ✓ Configuring Principal, Mirror
- ✓ Configure Witness, EndPoint
- ✓ Synchronous, Asynchronous

- ✓ Automated Failover Process
- ✓ Manual Failover, Monitoring
- ✓ Common Errors, Solutions

Ch 39: DB Health Checks, Repairs

- ✓ DBCC Commands in Realtime
- ✓ DBCC for Audits, Repairs
- ✓ MSDB Suspect Pages
- ✓ User Database Repairs
- ✓ Single User Mode
- ✓ Emergency Mode
- ✓ Recovery & Restoring Modes

Ch 40: Issues & Solutions

- ✓ Log Space Issues, Solutions
- ✓ TempDB Issues, Solutions
- ✓ Memory Issues, Solutions
- ✓ Health Check Strategies
- ✓ Healthy Backups
- ✓ Maintenance Plans
- ✓ Database States

Ch 41: Updates (Patches)

- ✓ Planning for Updates
- ✓ Pre-Maintenance Checklist
- ✓ Edition Checks
- ✓ Updates Process
- ✓ Edition Comparisons
- ✓ History Tracking
- ✓ Updates Rollback

Ch 42: Upgrades, Licensing

- ✓ Planning for Upgrades
- ✓ Pre-Maintenance Checklist
- ✓ Upgrades Process (In-Place)
- ✓ Cautions & Maintenance
- ✓ Version Comparisons
- ✓ History Tracking
- ✓ Upgrades Rollbacks

Ch 43: System DB Rebuilds, DAC

- ✓ Command Line Installations
- ✓ System DB Rebuilds
- ✓ Server Down Issues
- ✓ Service Startup Issues
- ✓ DAC: Dedicated Admin Console
- ✓ Login Failure Issues

- ✓ SQL CMD : Secondary Logins

Ch 44: SQL DBA Project

- ✓ Routine DBA Activities
- ✓ Emergency DBA Activities
- ✓ Maintenance DBA Activities
- ✓ SLA – OLA Process
- ✓ Ticketing Tools
- ✓ 3rd Party Tools
- ✓ Common Errors & Solutions

Ch 45: SQL DBA Project

- ✓ Login Failure Errors
- ✓ Slow Database Issues
- ✓ Network Errors
- ✓ Security Strategies
- ✓ HA DR Strategies
- ✓ Common Error Codes
- ✓ Need for Azure Cloud

Module 2: Azure SQL DBA

Ch 46: 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 47: 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 48: 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 49: 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 50: 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 51: Azure SQL DB Tuning, AI

- ✓ Server Level Tuning
- ✓ Database Level Tuning
- ✓ Built-In Intelligence
- ✓ AI Search Service, Tuning
- ✓ AI Indexes, Practical Use
- ✓ Watermark Columns

Ch 52: Azure Backups, Restores

- ✓ Azure SQL DB Backups
- ✓ Backup Retention Options
- ✓ LTR Backups, Log Backups
- ✓ Automated Backups
- ✓ LTR, PITR Restores
- ✓ Backup Versus Export
- ✓ Restore Versus Import

Ch 53: HA DR @ Replication

- ✓ Azure HA DR Mechanisms
- ✓ Geo Replication
- ✓ Primary & Secondary
- ✓ Manual Failover
- ✓ Automated Failover
- ✓ DMVs For Replication
- ✓ Testing Read Only Databases

Ch 54: HA DR @ Server Failover

- ✓ Multi Database Replication
- ✓ Configure Server HADR
- ✓ Adding Replica Databases
- ✓ Replica DB: Capacity
- ✓ Replica DB: Status
- ✓ Automated Failover
- ✓ Manual Failover

Ch 55: Azure Security

- ✓ Logins & Users in Azure
- ✓ Grant, With Grant
- ✓ Dynamic RLS
- ✓ Dynamic Data Masking
- ✓ Creating AD Users & IAM
- ✓ Implementing RBAC
- ✓ MFA Authentication

Ch 56: Azure Virtual Machine

- ✓ Azure IaaS Implementation
- ✓ Configure Disk, Network
- ✓ Configure SQL Security
- ✓ CPU, Processor & IO
- ✓ IP & RDP Connections
- ✓ Testing SSMS Connections
- ✓ Migrating SQL 2025 to VM

Ch 57: Azure VM Clusters

- ✓ Azure Active Directory
- ✓ Azure AD DS Services
- ✓ Azure Networking Options
- ✓ Availability Groups, Usage
- ✓ Listeners and Realtime Use
- ✓ FSW: File Share Witness

Ch 58: SQL Clusters, Always-On

- ✓ Creating SQL Clusters
- ✓ Testing SQL Clusters
- ✓ Configure Always-On
- ✓ Testing, Using Always-On
- ✓ AOAG Implementation
- ✓ AOAG Monitoring
- ✓ Comparing PaaS & IaaS

Ch 59: PowerShell

- ✓ Azure PowerShell

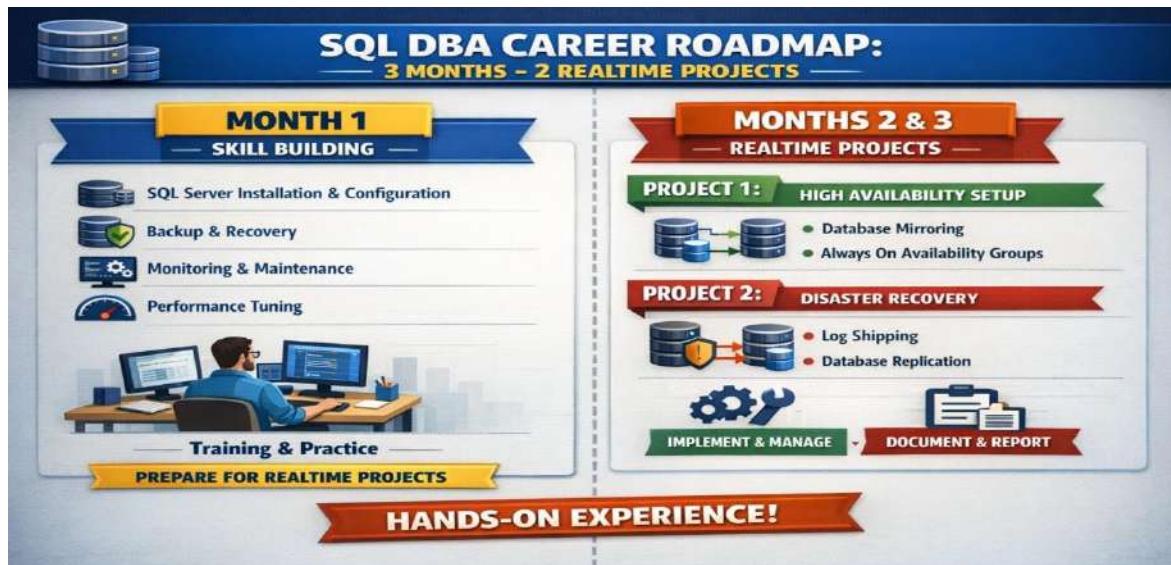
- ✓ Az and get Commands
- ✓ Creating Resources
- ✓ Lists & Validations
- ✓ Password Resets
- ✓ Firewall Config
- ✓ Resource Cleanups

Ch 60: Azure Managed Instance

- ✓ Azure MI Implementation
- ✓ Network Entities for MI
- ✓ Cloud Azure MI Access
- ✓ Azure MI Implementation
- ✓ Azure MI Migrations

Ch 61: DP 300 Exam Guidance, Resume

- 👉 🧠 Realtime Project For your Resume: End to End Project
- 👉 🧠 CoPilot Integrations For DB Administration
- 👉 🧠 Resume Guidance (1:1)
- 👉 🧠 Mock Interview, DP 300 Exam Guidance



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