SQL DBA with Azure, CoPilot

I am **Mr. Sai Phanindra**, trainer for this **SQL DBA with Azure** Course. With 19+ Years of technical expertise exclusively on SQL & Database Technologies, I assure you 100% Practical, Step by Step Classes for this DBA course.

What is SQL DBA Job Role?
Database Administrator (DBA) is responsible for Managing and Monitoring Databases, Tuning, Security, Migrations, Disaster Recovery, Repairs, Cloud Migrations & more.. !

Who can join this DBA course?
Anyone. We start the classes from scratch, right from Basics. We train you step by step.

What are the benefits of this SQL DBA Course?
☑ 100% Practical   ☑ Daily Assignments
☑ 100% Job Assistance   ☑ DP300 Exam Guidance
☑ Flexible Preparation   🔥**We make you Job Ready**

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What about the Lab? What are the System Requirements?
Window OS; 6 GB RAM; Any Processor. We shall guide you for Software Installation, Practice.

What are the details of this SQL DBA Course?
To become a DBA, you need to learn below modules:

☞▦ **Module 1: Database, SQL Server Concepts**
☞▦ **Module 2: Core SQL DBA**
☞▦ **Module 3: Azure SQL DBA, CoPilot**
☞▦ **Module 4: DP 300 Exam Guide & Resume**

☞▦ **Duration: 2 Months**
☞▦ **Two Realtime Projects**

🔥 Detailed Course Content 🔥

Module 1: Core SQL DBA

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

Module 1: Database Concepts, SQL Server Basics

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**

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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**

Module 2: Core SQL DBA

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**

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- ✓ **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**

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- ✓ **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 3: 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

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- ✓ **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**
- ✓ **Capacity Entities**
- ✓ **Cloud Azure MI Access**
- ✓ **Azure MI Implementation**
- ✓ **Azure MI Migrations**

Module 4: DP 300, 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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