



SQL DBA with Azure

Hi !

Thank you for contacting our **SQL School**. 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. My Profile @ <https://www.linkedin.com/in/saiphanindra/>

What is SQL DBA Job Role?

Database Administrator (DBA) is responsible for Managing and Monitoring Databases in On-Premise (Non-Cloud) as well as in Azure (Cloud). This involves Tuning, Security, Migrations, Disaster Recovery, Repairs, Cloud Migrations and many more..!

What are the benefits of this SQL DBA Course?

This SQL DBA Training with Azure is very detailed, step by step and useful course for aspiring Database Administrators. Concept wise Examples, Interview FAQs & Answers. We make you Job Ready with on-time practice and timely assignment submissions.

This course also includes complete guidance for Microsoft Certification Exam: **DP 300**

Who can join this course?

Anyone. There are NO Pre-requisites for this course. We start the classes from scratch, right from Basics.

What about the Lab? What are the System Requirements?

Window OS; 6 GB RAM; Any Processor. We shall guide you for Software Installation, Practice.

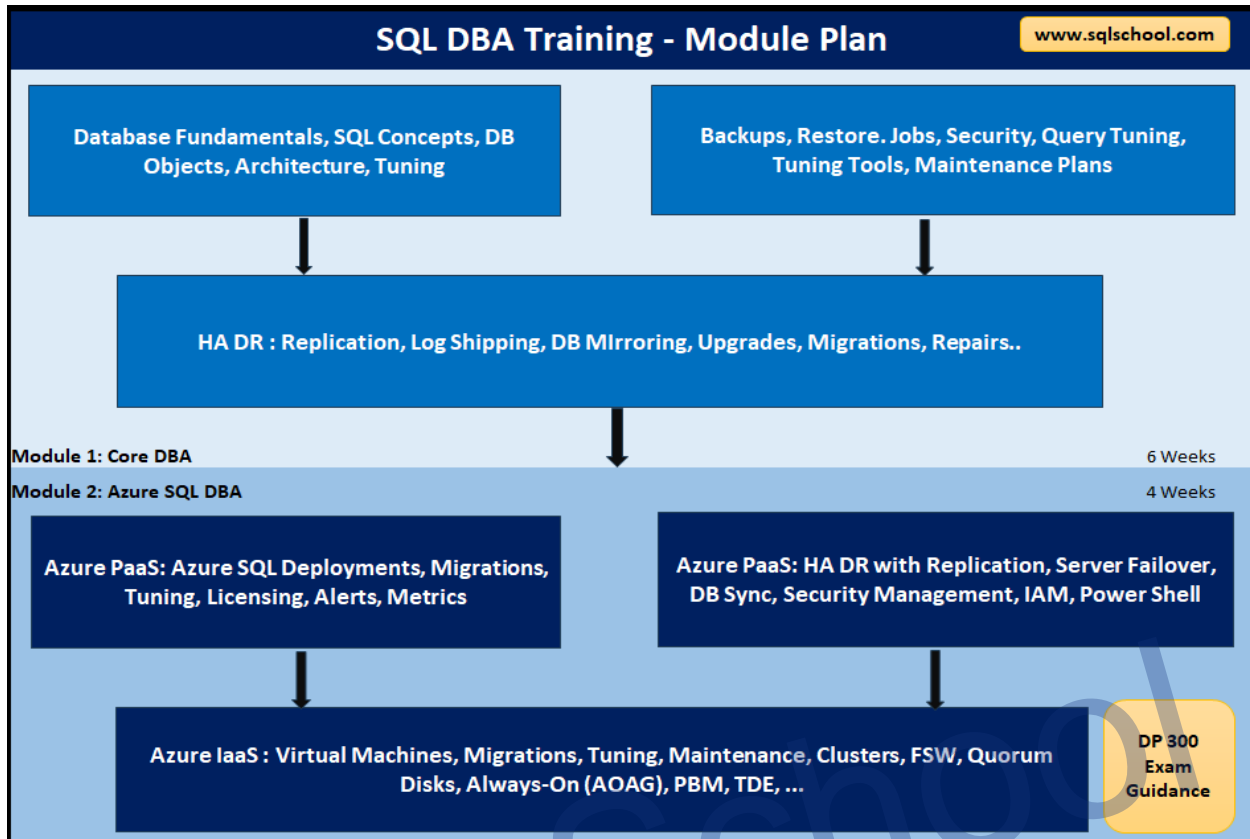
What about Placement Assistance?

We train you with step by step activities, concept wise FAQs and Answers. Resume Guidance and Placement Assistance part of this SQL DBA Course.

How to join the course?

Reach us for free demo.

Attend one LIVE (technical) class in ongoing batch just to get some idea on how our classes will be and to test the interactivensness as well as attentiveness of our classes. Then you can choose your preferred schedule to start the actual course.



Training Modes:

Option 1: **LIVE Online Training** (100% Interactive, step by step, assignments)

Option 2: **Self Paced Videos** (100% practical, step by step with concept wise assignments)

You may choose any one of these options, same curriculum!!

I (Trainer) shall be available for doubts and clarifications, assignment check and review.

Training Options (Plans) :

	Modules	Chapters Included	Duration	Applicable For
SQL DBA Plan A	1.Core SQL DBA	Chapters 1 to 30	6 Weeks	Applicable for Staters
SQL DBA Plan B	1. Core SQL DBA 2. Azure SQL DBA	Chapters 1 to 45	9 Weeks	Applicable for Staters, Experienced

- **Every session is Practical, Step by Step with Concept wise FAQs !!**
- **100% results with on-time practice. Daily Tasks for every session.**
- **Concept wise tasks be submitted before next class for Job Waiters / Starters.**
- **Concept wise tasks due for submission by Weekends for Working Professionals.**

SQL DBA Training : Detailed Course Curriculum

Module 1: Core SQL DBA

<p>Ch 1: Introduction</p> <ul style="list-style-type: none"> ✓ Database Intro & DB Types ✓ SQL Server Advantages ✓ Version, Editions of MSSQL ✓ SQL DBA Job Roles ✓ Routine DBA Tasks ✓ Emergency DBA Tasks ✓ Maintenance DBA Tasks 	<p>Ch 2: Installations</p> <ul style="list-style-type: none"> ✓ SQL Server 2019, 2017 ✓ SSMS Tools Installation ✓ Database Engine (OLTP) ✓ SCC, Configuration Tools ✓ Instance Types, Uses ✓ Authentication Modes ✓ Collation, File Stream 	<p>Ch 3: SQL Basics - 1</p> <ul style="list-style-type: none"> ✓ Need for Databases, Tables ✓ Need for SQL Commands ✓ DDL, DML & DQL Statements ✓ Database Creation @ GUI ✓ Data Operations @ GUI ✓ Session ID, SQL Context ✓ DB, Tables, Data @ SQL
<p>Ch 4: SQL Basics - 2</p> <ul style="list-style-type: none"> ✓ DDL Variants in MSSQL ✓ DML Variants in MSSQL ✓ INSERT & INSERT INTO ✓ SELECT & SELECT INTO ✓ Basic Operators in SQL ✓ Special Operators in MSSQL ✓ ALTER, ADD, TRUNCATE, DROP 	<p>Ch 5: Data Imports, Schemas</p> <ul style="list-style-type: none"> ✓ Data Imports with Excel ✓ ORDER BY & UNION ✓ UNION ALL For Sorting Data ✓ Creating, Using Schemas ✓ Real-world Banking Database ✓ Table Migrations @ Schemas ✓ 2 Part, 3 Part & 4 Part Naming 	<p>Ch 6: Constraints, Index Basics</p> <ul style="list-style-type: none"> ✓ Need for Constraints, Keys ✓ NULL, NOT NULL, UNIQUE ✓ Primary Key & Foreign Key ✓ RDBMS and ER Models ✓ Identity Property, Default ✓ Clustered Index, Primary Key ✓ Non Clustered Index, Unique
<p>Ch 7: Joins & Views Basics</p> <ul style="list-style-type: none"> ✓ JOINS: Purpose. Inner Joins ✓ Left / Right / Full Outer Joins ✓ Cross Joins, Query Tuning ✓ Creating & Using Views ✓ DML, SELECT with Views ✓ RLS : WITH CHECK OPTION ✓ System Views & Metadata 	<p>Ch 8: Functions(UDF), Data Types</p> <ul style="list-style-type: none"> ✓ Using Functions in MSSQL ✓ Scalar Value Functions ✓ Inline & Multiline Functions ✓ Date & Time Functions ✓ String, Aggregate Functions ✓ Data Types : Integer, Char, Bit ✓ SQL Variant, Timestamp, Date 	<p>Ch 9: Stored Procedures, Models</p> <ul style="list-style-type: none"> ✓ Stored Procedures & Usage ✓ Creating, Testing Procedures ✓ Encryption, Deferred Names ✓ SPs for Validations, Analysis ✓ System SPs, Recompilation ✓ Normal Forms & Types ✓ Data Models, Self-References
<p>Ch 10: Triggers, Temp Tables</p> <ul style="list-style-type: none"> ✓ Need for Triggers ✓ DDL & DML Triggers ✓ Using Memory Tables ✓ Data Replication, Automation ✓ Disable / Enable Triggers ✓ Local & Global Temp Tables ✓ Testing & Using Temp Tables ✓ SELECT .. INTO & Bulk Loads 	<p>Ch 11: DB Architecture, Locks</p> <ul style="list-style-type: none"> ✓ Planning VLDBs : Files, Sizing ✓ Filegroups, Extents & Types ✓ Log Files : VLF, Mini LSN ✓ Table Location, Performance ✓ Database Scripting Process ✓ Schemas, Transfer, Synonyms ✓ Transactions Types, Lock Hint ✓ Query Blocking Scenarios 	<p>Ch 12: Cursors & CTEs, Links</p> <ul style="list-style-type: none"> ✓ Data Types in SQL Server ✓ Cursors : Realtime Use ✓ Fetch & Access Cursor Rows ✓ CTEs for SELECT, DML ✓ CTEs: Scenarios & Tuning ✓ Linked Servers, Remote Joins ✓ Linked Servers: MSDTC, RPC ✓ Tuning Remote Queries
<p>Ch 13: Backups</p> <ul style="list-style-type: none"> ✓ Database Backups & Files 	<p>Ch 14: Restores</p> <ul style="list-style-type: none"> ✓ DB, Filegroups, File Restores 	<p>Ch 15: Jobs, Maintenance</p> <ul style="list-style-type: none"> ✓ Jobs & SQL Server Agent

<ul style="list-style-type: none"> ✓ Backup Types & Options ✓ DB, Filegroup, File Backups ✓ Copy Only Backups, Usage ✓ Partial Backups, Split Backups ✓ Mirror Backups, Verifications ✓ Checksum, ContinueOnError 	<ul style="list-style-type: none"> ✓ GUI Restores: Limitations ✓ Partial / Piece-meal Restores ✓ Restoring & Online States ✓ Standby Mode Restores ✓ Point-In-Time (PITR) Restores ✓ FILELISTONLY, MOVE Options 	<ul style="list-style-type: none"> ✓ Job Steps & Schedules ✓ Maintenance Plans ✓ Backup Maintenance Options ✓ Job Notifications, Operators ✓ DB Mail Configurations ✓ Common Errors, Solutions
<p>Ch 16: Security Management</p> <ul style="list-style-type: none"> ✓ Security Objects Usage ✓ Creating Logins & Users ✓ Creating Roles, Add Principals ✓ Schema Level Security ✓ Object, Column Level Security ✓ Security Management Scripts ✓ Security Audit, Logon Failures 	<p>Ch 17: DB Migrations</p> <ul style="list-style-type: none"> ✓ Creating Credentials ✓ Creating Proxies, Realtime Use ✓ Creating CDW Packages ✓ Database Detach – Attach ✓ SMO Migration Method ✓ DB Migration Schedules ✓ Detect, Fix Orphan Users 	<p>Ch 18: DB Health Checks, Repairs</p> <ul style="list-style-type: none"> ✓ DBCC Commands in Realtime ✓ DBCC for Audits, Repairs ✓ MSDB Suspect Pages ✓ User Database Repairs ✓ Log Space Issues, Solutions ✓ TempDB Issues, Solutions ✓ Memory Issues, Solutions
<p>Ch 19: Query Audits, Perfmon</p> <ul style="list-style-type: none"> ✓ Query Performance Issues ✓ Reasons for Slow Queries ✓ Performance Tuning Options ✓ Performance Tuning Tools ✓ Query Store & History ✓ Activity Monitor, Perfmon ✓ DMVs & DMFs for Audits 	<p>Ch 20: Indexes & Tuning</p> <ul style="list-style-type: none"> ✓ Indexes : Sort Locations ✓ Clustered & Online Indexes ✓ Non Clustered, Columnstore ✓ Included Indexes in Realtime ✓ Filtered Indexes & Usage ✓ Covering Index & Selectivity ✓ Indexed Views (Materialized) 	<p>Ch 21: Partitions, Statistics</p> <ul style="list-style-type: none"> ✓ Partition Implementations ✓ Partition Functions & Schemes ✓ Primary & Secondary Types ✓ Data Archival with Partitions ✓ Compression with Partitions ✓ Statistics : Realtime Use ✓ Index, Column Stats, Updates
<p>Ch 22: Tuning Tools, Exec Plans</p> <ul style="list-style-type: none"> ✓ Tuning Tools and Workloads ✓ Profiler Tool : Trace Files ✓ Trace Filters and Rollover ✓ DTA Tool Recommendations ✓ PDS, & Index Size, Index Scan ✓ Execution Plans, Index Seeks ✓ Query Cost Issues, Solutions 	<p>Ch 23: MOT & Temporal Tables</p> <ul style="list-style-type: none"> ✓ Memory Optimized Tables ✓ Non Clustered Primary Keys ✓ Stats Updates, Performance ✓ Temporal Tables in Realtime ✓ History Tracking & Testing ✓ Timestamp Columns Usage ✓ Tuning Stored Procedures 	<p>Ch 24: Locks & Isolation Levels</p> <ul style="list-style-type: none"> ✓ Transactions & Locks ✓ Lock Types & Performance ✓ Lock Management Options ✓ Isolation Levels & TempDB ✓ Snapshots and Performance ✓ Deadlocks Simulations, Graphs ✓ Profiler Tool & LIVE Locks
<p>Ch 25: HA DR @ Replication - 1</p> <ul style="list-style-type: none"> ✓ Replication : Realtime Usage ✓ Replication Considerations ✓ Distributor Configurations ✓ Publisher and Subscriber ✓ Replication Types: Snapshot ✓ Transactional Replication ✓ Log Reader Agent & Usage ✓ Replication Monitor, Alerts 	<p>Ch 26: HA DR @ Replication - 2</p> <ul style="list-style-type: none"> ✓ Merge Replication & Usage ✓ Peer – Peer Replication ✓ Peer to Peer Topology ✓ Push & Pull Subscriptions ✓ Conflict Detection, Avoidance ✓ Scripting Replication Agents ✓ Limitations with Replication ✓ Common Errors, Solutions 	<p>Ch 27: HA DR @ Log Shipping</p> <ul style="list-style-type: none"> ✓ Log Shipping Configurations ✓ Primary, Secondary Servers ✓ Monitor Instance Selection ✓ Working with Network Shares ✓ LS Jobs: Backup, Copy, Restore ✓ NORECOVERY, STANDBY ✓ Manual Failover Process ✓ Common Errors, Solutions
<p>Ch 28: HA DR @ DB Mirroring</p>	<p>Ch 29: Updates, Upgrades</p>	<p>Ch 30: SQL DBA Project Phase</p>

<ul style="list-style-type: none"> ✓ Database Mirroring Concepts ✓ Configuring Principal, Mirror ✓ Configure Witness, EndPoint ✓ Synchronous, Asynchronous ✓ Automated Failover Process ✓ Manual Failover, Monitoring ✓ Common Errors, Solutions 	<ul style="list-style-type: none"> ✓ Updates, Upgrades Planning ✓ Pre-Maintenance Checklist ✓ Updates Process, Verifications ✓ Upgrade Process, Verifications ✓ History Tracking & Testing ✓ System Database Rebuilds ✓ DAC: Dedicated Admin Console 	<ul style="list-style-type: none"> ✓ Routine DBA Activities ✓ Emergency DBA Activities ✓ Maintenance DBA Activities ✓ SLA – OLA Process ✓ Ticketing Tools ✓ 3rd Party Tools ✓ Common Errors & Solutions
--	---	---

Module 2: Azure SQL DBA

<p>Ch 31: Cloud Basics, Azure Funda</p> <ul style="list-style-type: none"> ✓ Cloud Fundamentals ✓ Cloud Concepts, Benefits ✓ IaaS, PaaS, SaaS Cloud Types ✓ Azure Cloud Concepts ✓ Azure Resources & Usage ✓ Azure Services & Purpose ✓ Azure Account & Subscription 	<p>Ch 32: Azure SQL Database</p> <ul style="list-style-type: none"> ✓ 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 	<p>Ch 33: Azure SQL DB Migrations</p> <ul style="list-style-type: none"> ✓ 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
<p>Ch 34: Azure SQL DB Licensing</p> <ul style="list-style-type: none"> ✓ 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 	<p>Ch 35: Azure SQL DB Metrics</p> <ul style="list-style-type: none"> ✓ Azure SQL DB Metrics ✓ CPU, Memory, Log Metrics ✓ Data File Metrics, Alerts ✓ Action Groups & Emails ✓ Query Performance Insight ✓ Automated Tuning Options ✓ Query Recommendations 	<p>Ch 36: Azure SQL DB Tuning, AI</p> <ul style="list-style-type: none"> ✓ Automated Tuning Options ✓ Manual Tuning Options ✓ Server Level Tuning ✓ Database Level Tuning ✓ AI Search Service, Tuning ✓ AI Indexes and Practical Use ✓ Watermark Columns, Updates
<p>Ch 37: Azure SQL DB Tuning, AI</p> <ul style="list-style-type: none"> ✓ Azure Backups & Restores ✓ Automated Backups ✓ Backup Retention Options ✓ LTR, PITR & Differential ✓ Backup Audits from Portal ✓ Restores from SQL Server ✓ Restores from Azure Portal ✓ PITR Restores 	<p>Ch 38: Azure HA DR</p> <ul style="list-style-type: none"> ✓ Azure HA DR Mechanisms ✓ Geo Replication ✓ Server Failover ✓ Primary & Secondary ✓ Manual Failover ✓ Automated Failover ✓ Multi Database Replication ✓ Data Sync with Hub, Agent 	<p>Ch 39: Azure Security</p> <ul style="list-style-type: none"> ✓ Azure SQL DB Security ✓ Logins & Users in master ✓ Logins & Users in SQL DB ✓ Role Based Security ✓ RLS & Users without Logins ✓ Dynamic Data Masking ✓ Creating AD Users & IAM ✓ Implementing RBAC

<p>Ch 40: Azure PaaS & Azure IaaS</p> <ul style="list-style-type: none"> ✓ Azure PaaS : Operations ✓ Azure PaaS : Limitations ✓ Azure IaaS : Advantages ✓ Azure IaaS Components ✓ Azure Virtual Machines ✓ Capacity & Networking ✓ Disk & Memory Config. 	<p>Ch 41: Azure IaaS Concepts</p> <ul style="list-style-type: none"> ✓ Azure Virtual Machines ✓ SQL Server with Azure VM ✓ Access Azure VM from SSMS ✓ Migrations from PaaS ✓ Migrations from On-Premise ✓ Azure Data Studio, VMs ✓ Comparing SSMS & ADS Tool 	<p>Ch 42: Azure VM</p> <ul style="list-style-type: none"> ✓ Azure IaaS Implementation ✓ Configure Disk, Network ✓ Configure SQL Security ✓ CPU, Processor & IO ✓ IP & RDP Connections ✓ Testing SSMS Connections ✓ Migrating SQL DB to VM
<p>Ch 43: Azure Clusters</p> <ul style="list-style-type: none"> ✓ Azure Active Directory ✓ Azure AD DS Services ✓ Azure Networking Options ✓ Availability Groups, Usage ✓ Listeners and Realtime Use ✓ FSW : File Share Witness ✓ Azure PaaS : Limitations 	<p>Ch 44: SQL Clusters, Always-On</p> <ul style="list-style-type: none"> ✓ Creating SQL Clusters ✓ Testing SQL Clusters ✓ Configure Always-On ✓ Testing, Using Always-On ✓ AOAG Implementation ✓ AOAG Monitoring Options ✓ Comparing PaaS & IaaS 	<p>Ch 45: DP 300 Exam Guidance</p> <ul style="list-style-type: none"> ✓ PBM: Policy Management ✓ Scripting Operations ✓ Database Configurations ✓ Server Configurations ✓ Examination Pattern ✓ Sample Questions, Answers ✓ Latest Samples

This SQL DBA Course is 100% Practical, Step by Step. Reach us now !

contact@sqlschool.com

New batch Schedules: www.sqlschool.com/Register

Call / Whatsapp : +91 9951440801, +91 9666440801

Trainer: Mr. Sai Phanindra Tholeti

Profile: <http://linkedin.com/in/saiphanindra>

Call / Whatsapp : +91 9030040801

All sessions are practical, step by step. Kindly ensure on-time practice for best results.

Thank You !