

SQL DBA with Azure

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?

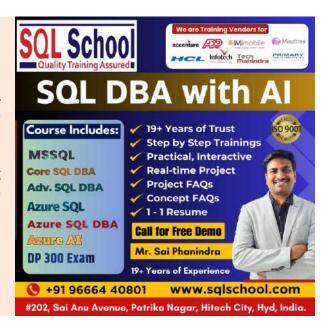
This SQL DBA Training with Azure is very detailed, step by step and useful course for aspiring Database Administrators. Concept wise Examples, Interview FAQs & Answers. We make you Job Ready with on-time practice and timely assignment submissions.

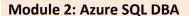
This course also includes complete guidance for Microsoft Certification Exam: **DP 300**

Module 1: Core SQL DBA

In this module, we start with detailed step by Step Database Fundamentals, SQL Concepts, TSQL Queries useful for Routine SQL DBA Activities Like Audits. In this module, we also learn Backups, Restores, Jobs, Maintenance Plans, Health Checks, Repairs, DB Mail, HA DR Concepts including Replication, Log Shipping, DB Mirroring and more ...!

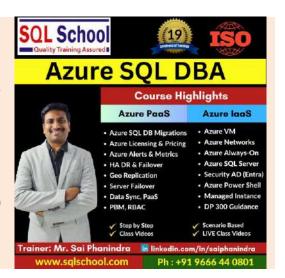
These concepts will be surely sufficient to proceed for our next module: **Azure SQL DBA.**





In this module, we practically learn & implement Azure PaaS, Azure IaaS, Azure SQL DB Migrations, Azure SQL DB Deployments, Azure Tuning, issues & Troubleshooting, Security, Power Shell, Azure Virtual Machines, Azure OS Clusters, Azure Always On and more.

This module includes one **Realtime Project, DP 300 Exam Guidance** for your resume in **Ecommerce** Domain.

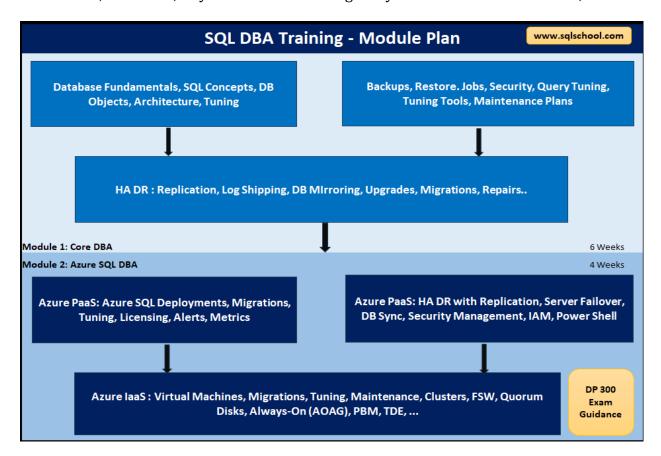


Who can join this course?

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.



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

Ch 1: Introduction	Ch 2: Installations	Ch 3: SQL Basics - 1
✓ Database Intro & DB Types	✓ SQL Server 2019, 2017	✓ Need for Databases, Tables
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✓ SQL Server Advantages	✓ SSMS Tools Installation	✓ Need for SQL Commands
✓ Version, Editions of MSSQL	✓ Database Engine (OLTP)	✓ DDL, DML & DQL Statements
✓ SQL DBA Job Roles	✓ SCC, Configuration Tools	✓ Database Creation @ GUI
✓ Routine DBA Tasks	✓ Instance Types, Uses	✓ Data Operations @ GUI
✓ Emergency DBA Tasks	✓ Authentication Modes	✓ Session ID, SQL Context
✓ Maintenance DBA Tasks	✓ Collation, File Stream	✓ DB, Tables, Data @ SQL
Ch 4: SQL Basics - 2	Ch 5: Data Imports, Schemas	Ch 6: Constraints, Index Basics
✓ DDL Variants in MSSQL	✓ Data Imports with Excel	✓ Need for Constraints, Keys
✓ DML Variants in MSSQL	✓ ORDER BY & UNION	✓ NULL, NOT NULL, UNIQUE
✓ INSERT & INSERT INTO	✓ UNION ALL For Sorting Data	✓ Primary Key & Foreign Key
✓ SELECT & SELECT INTO	✓ Creating, Using Schemas	✓ RDBMS and ER Models
✓ Basic Operators in SQL	✓ Real-world Banking Database	✓ Identity Property, Default
✓ Special Operators in MSSQL	√ Table Migrations @ Schemas	✓ Clustered Index, Primary Key
✓ ALTER, ADD, TRUNCATE, DROP	✓ 2 Part, 3 Part & 4 Part Naming	✓ Non-Clustered Index, Unique

Ch 7: Joins & Views Basics ✓ 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	Ch 8: Functions (UDF), Data Types ✓ 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	Ch 9: Stored Procedures, Models ✓ Stored Procedures & Usage ✓ Creating, Testing Procedures ✓ Encryption, Deferred Names ✓ SPs for Validations, Analysis ✓ System SPs, Recompilation ✓ Normal Forms & Types ✓ Data Models, Self-References
Ch 10: Triggers, Temp Tables ✓ 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	Ch 11: DB Architecture, Locks ✓ 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	Ch 12: Cursors & CTEs, Links ✓ 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
Ch 13: Backups ✓ Database Backups & Files ✓ Backup Types & Options ✓ DB, Filegroup, File Backups ✓ Copy Only Backups, Usage ✓ Partial Backups, Split Backups ✓ Mirror Backups, Verifications ✓ Checksum, ContinueOnError	Ch 14: Restores ✓ DB, Filegroups, File Restores ✓ GUI Restores: Limitations ✓ Partial / Piece-meal Restores ✓ Restoring & Online States ✓ Standby Mode Restores ✓ Point-In-Time (PITR) Restores ✓ FILELISTONLY, MOVE Options	Ch 15: Jobs, Maintenance ✓ Jobs & SQL Server Agent ✓ Job Steps & Schedules ✓ Maintenance Plans ✓ Backup Maintenance Options ✓ Job Notifications, Operators ✓ DB Mail Configurations ✓ Common Errors, Solutions
Ch 16: Security Management ✓ Security Objects Usage ✓ Creating Logins & Users ✓ Creating Roles, Add Principals ✓ Schema Level Security ✓ Object, Column Level Security ✓ Security Management Scripts ✓ Security Audit, Logon Failures	Ch 17: DB Migrations ✓ Creating Credentials ✓ Creating Proxies, Realtime Use ✓ Creating CDW Packages ✓ Database Detach – Attach ✓ SMO Migration Method ✓ DB Migration Schedules ✓ Detect, Fix Orphan Users	Ch 18: DB Health Checks, Repairs ✓ DBCC Commands in Realtime ✓ DBCC for Audits, Repairs ✓ MSDB Suspect Pages ✓ User Database Repairs ✓ Log Space Issues, Solutions ✓ TempDB Issues, Solutions ✓ Memory Issues, Solutions
Ch 19: Query Audits, Perfmon ✓ Query Performance Issues ✓ Reasons for Slow Queries ✓ Performance Tuning Options ✓ Performance Tuning Tools ✓ Query Store & History ✓ Activity Monitor, Perfmon	Ch 20: Indexes & Tuning ✓ Indexes: Sort Locations ✓ Clustered & Online Indexes ✓ Non-Clustered, Column store ✓ Included Indexes in Realtime ✓ Filtered Indexes & Usage ✓ Covering Index & Selectivity	Ch 21: Partitions, Statistics ✓ Partition Implementations ✓ Partition Functions & Schemes ✓ Primary & Secondary Types ✓ Data Archival with Partitions ✓ Compression with Partitions ✓ Statistics: Realtime Use

✓ DMVs & DMFs for Audits	✓ Indexed Views (Materialized)	✓ Index, Column Stats, Updates
Ch 22: Tuning Tools, Exec Plans	Ch 23: MOT & Temporal Tables	Ch 24: Locks & Isolation Levels
✓ Tuning Tools and Workloads	✓ Memory Optimized Tables	✓ Transactions & Locks
✓ Profiler Tool: Trace Files	✓ Non-Clustered Primary Keys	✓ Lock Types & Performance
✓ Trace Filters and Rollover	✓ Stats Updates, Performance	✓ Lock Management Options
✓ DTA Tool Recommendations	✓ Temporal Tables in Realtime	✓ Isolation Levels & TempDB
✓ PDS, & Index Size, Index Scan	✓ History Tracking & Testing	✓ Snapshots and Performance
✓ Execution Plans, Index Seeks	√ Timestamp Columns Usage	✓ Deadlocks Simulations, Graphs
✓ Query Cost Issues, Solutions	✓ Tuning Stored Procedures	✓ Profiler Tool & LIVE Locks
Ch 25: HA DR @ Replication - 1	Ch 26: HA DR @ Replication - 2	Ch 27: HA DR @ Log Shipping
✓ Replication: Realtime Usage	✓ Merge Replication & Usage	✓ Log Shipping Configurations
✓ Replication Considerations	✓ Peer – Peer Replication	✓ Primary, Secondary Servers
✓ Distributor Configurations	✓ Peer to Peer Topology	✓ Monitor Instance Selection
✓ Publisher and Subscriber	✓ Push & Pull Subscriptions	✓ Working with Network Shares
✓ Replication Types: Snapshot	✓ Conflict Detection, Avoidance	✓ LS Jobs: Backup, Copy, Restore
✓ Transactional Replication	✓ Scripting Replication Agents	✓ NORECOVERY, STANDBY
✓ Log Reader Agent & Usage	✓ Limitations with Replication	✓ Manual Failover Process
✓ Replication Monitor, Alerts	✓ Common Errors, Solutions	✓ Common Errors, Solutions
Ch 28: HA DR @ DB Mirroring	Ch 29: Updates, Upgrades	Ch 30: SQL DBA Project Phase
✓ Database Mirroring Concepts	✓ Updates, Upgrades Planning	✓ Routine DBA Activities
✓ Configuring Principal, Mirror	✓ Pre-Maintenance Checklist	✓ Emergency DBA Activities
✓ Configure Witness, End Point	✓ Updates Process, Verifications	✓ Maintenance DBA Activities
✓ Synchronous, Asynchronous	✓ Upgrade Process, Verifications	✓ SLA – OLA Process
✓ Automated Failover Process	✓ History Tracking & Testing	✓ Ticketing Tools
✓ Manual Failover, Monitoring	✓ System Database Rebuilds	√ 3 rd Party Tools
✓ Common Errors, Solutions	✓ DAC: Dedicated Admin Console	✓ Common Errors & Solutions

Module 2: Azure SQL DBA

Ch 31: Cloud Basics, Azure Funda	Ch 32: Azure SQL Database	Ch 33: Azure SQL DB Migrations	
✓ Cloud Fundamentals	✓ Azure SQL Services	✓ SQL DB Migration Options	
✓ Cloud Concepts, Benefits	✓ Azure SQL Server Creation	✓ Data Migration Assistant: DMA	
√ IaaS, PaaS, SaaS Cloud Types	✓ Azure SQL Databases	✓ DMA Tool, Migration Options	
✓ Azure Cloud Concepts	✓ Azure Firewall: Rules	✓ On-Premises DB Export	
✓ Azure Resources & Usage	✓ Test Connections from SSMS	✓ Azure SQL Database Import	
✓ Azure Services & Purpose	✓ SSMS Tool: Test Connections	✓ Azure Storage Account	
✓ Azure Account & Subscription	✓ ADS Tool: Installation, use	✓ Linking SSMS with Azure	

Ch 34: Azure SQL DB Licensing **Ch 35: Azure SQL DB Metrics** Ch 36: Azure SQL DB Tuning, Al ✓ Azure SQL DB Metrics ✓ Azure SQL DB Licensing ✓ Automated Tuning Options ✓ Manual Tuning Options ✓ Per Database Licensing ✓ CPU, Memory, Log Metrics ✓ Data File Metrics, Alerts ✓ DTUs: Basic, Standard Types ✓ Server Level Tuning ✓ Action Groups & Emails ✓ Database Level Tuning ✓ VPU and Plan Types ✓ DTU Versus VPU Licensing ✓ Query Performance Insight ✓ Al Search Service, Tuning ✓ Elastic DTUs (eDTU) Usage ✓ Automated Tuning Options ✓ Al Indexes and Practical Use ✓ Elastic Query Processing ✓ Query Recommendations ✓ Watermark Columns, Updates Ch 38: Azure HA DR Ch 37: Azure SQL DB Tuning, Al **Ch 39: Azure Security** ✓ Azure HA DR Mechanisms ✓ Azure Backups & Restores ✓ Azure SQL DB Security ✓ Automated Backups ✓ Geo Replication ✓ Logins & Users in master ✓ Server Failover ✓ Backup Retention Options ✓ Logins & Users in SQL DB ✓ Primary & Secondary ✓ LTR, PITR & Differential ✓ Role Based Security ✓ Manual Failover ✓ RLS & Users without Logins ✓ Backup Audits from Portal ✓ Automated Failover ✓ Restores from SQL Server ✓ Dynamic Data Masking ✓ Multi Database Replication ✓ Restores from Azure Portal ✓ Creating AD Users & IAM ✓ Data Sync with Hub, Agent ✓ PITR Restores **Implementing RBAC** Ch 42: Azure VM Ch 40: Azure PaaS & Azure laaS Ch 41: Azure laaS Concepts ✓ Azure laaS Implementation ✓ Azure PaaS: Operations ✓ Azure Virtual Machines ✓ Configure Disk, Network ✓ Azure PaaS: Limitations ✓ SQL Server with Azure VM ✓ Configure SQL Security ✓ Azure laaS: Advantages ✓ Access Azure VM from SSMS ✓ CPU, Processor & IO ✓ Migrations from PaaS ✓ Azure laaS Components ✓ IP & RDP Connections ✓ Migrations from On-Premise ✓ Azure Virtual Machines ✓ Testing SSMS Connections ✓ Capacity & Networking ✓ Azure Data Studio, VMs ✓ Disk & Memory Config. ✓ Migrating SQL DB to VM ✓ Comparing SSMS & ADS Tool Ch 45: DP 300 Exam Guidance Ch 44: SQL Clusters, Always-On **Ch 43: Azure Clusters** ✓ PBM: Policy Management ✓ Azure Active Directory ✓ Creating SQL Clusters ✓ Azure AD DS Services ✓ Testing SQL Clusters ✓ Scripting Operations ✓ Database Configurations ✓ Configure Always-On ✓ Azure Networking Options ✓ Server Configurations ✓ Availability Groups, Usage ✓ Testing, Using Always-On ✓ Examination Pattern ✓ Listeners and Realtime Use ✓ AOAG Implementation ✓ Sample Questions, Answers ✓ FSW: File Share Witness ✓ AOAG Monitoring Options ✓ Latest Samples ✓ Azure Paas: Limitations ✓ Comparing Paas & laaS

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

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

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All the best!