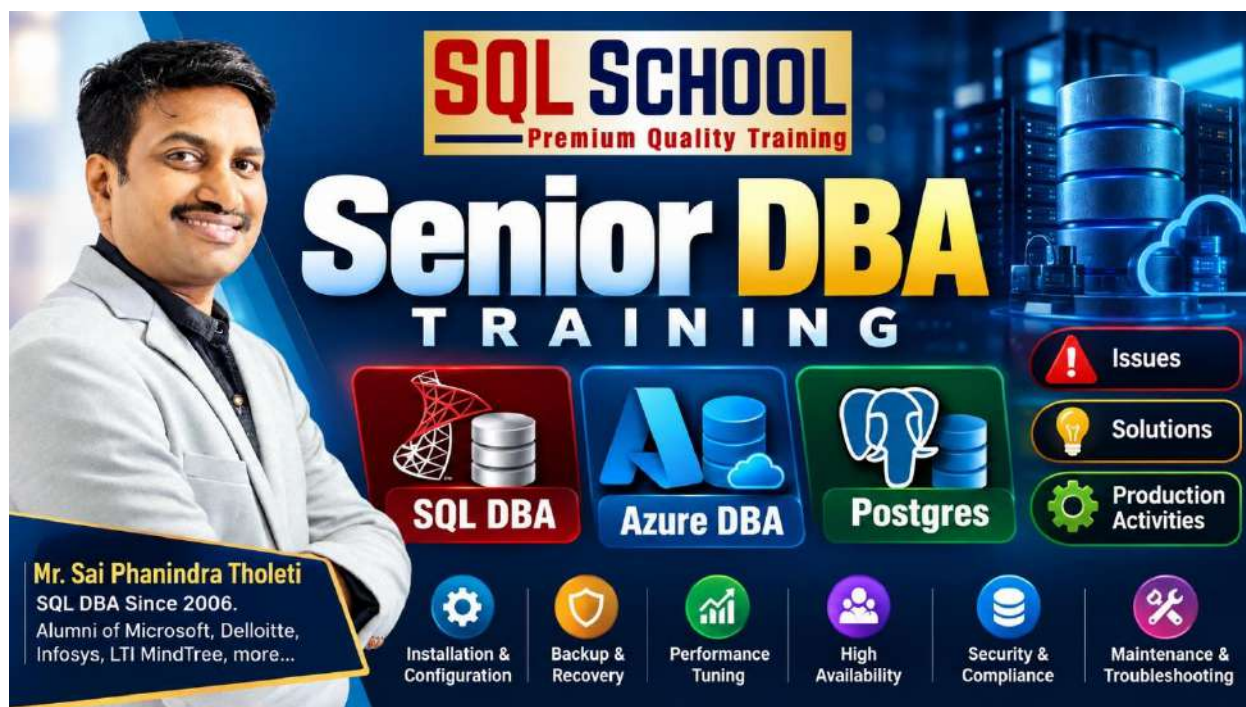


A promotional banner for 'SQL SCHOOL Premium Quality Training Senior DBA TRAINING'. On the left, a portrait of Mr. Sai Phanindra Tholeti, an SQL DBA since 2006, with a list of alumni including Microsoft, Deloitte, Infosys, and LTI MindTree. The center features the 'SQL SCHOOL' logo and the title 'Senior DBA TRAINING' in large, bold letters. Below the title are three main database categories: 'SQL DBA' (with a red database icon), 'Azure DBA' (with a blue cloud and database icon), and 'Postgres' (with a green elephant icon). To the right of these are three vertical buttons: 'Issues' (red with an exclamation mark), 'Solutions' (yellow with a lightbulb), and 'Production Activities' (green with a gear). At the bottom, a row of six icons represents various database management tasks: 'Installation & Configuration' (gear), 'Backup & Recovery' (shield), 'Performance Tuning' (bar chart), 'High Availability' (people icon), 'Security & Compliance' (database icon), and 'Maintenance & Troubleshooting' (wrench).

Senior DBA Training

Become a Master in “Multi-Tech DBA” Stack

This comprehensive training program is designed to transform beginners and working professionals into industry-ready **SQL DBAs with Azure Cloud, Postgres DBA expertise**. The course combines Microsoft SQL Server Administration, Azure SQL Database, Postgres, Postgres with Azure for High Availability & Disaster Recovery, Performance Tuning, Database Security, Cloud Migration, AI-powered administration, and real-time enterprise projects.

What You'll Learn

- ✓ End-to-End Database Administration Projects
- ✓ Azure SQL Database & Cloud Administration
- ✓ Performance Tuning & Troubleshooting
- ✓ Backup, Restore & Disaster Recovery
- ✓ High Availability (Replication, Log Shipping, Always On)
- ✓ Migrations, Upgrades & Process Integrations
- ✓ Realtime Issues, Solutions

Technologies You'll Master

- ✓ Microsoft SQL Server
- ✓ SQL DBA (Core)
- ✓ SQL DBA (Azure)
- ✓ PostgreSQL DBA (Core)
- ✓ PostgreSQL DBA (Azure)

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Training Highlights

- ✓ 100% Practical Hands-on Sessions
- ✓ Daily Assignments & Practice Exercises
- ✓ Security, Auditing & Compliance
- ✓ Mock Interviews with MNC Interview Questions
- ✓ DP-300 Certification Guidance
- ✓ Lifetime Career Support

Who Should Join?

- SQL Developers
- Infrastructure Engineers
- IT Support Professionals
- Freshers aspiring to become DBAs
- Working professionals looking to transition into Cloud Database Administration

Career Opportunities

After completing this course, you can apply for roles such as:

- SQL Database Administrator
- Azure SQL DBA
- Production DBA
- Senior DBA
- Database Migration Specialist

Course Duration: 4 Months

Learning Mode: LIVE Online / Self-Paced Videos

Detailed Course Content

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

- ✓ SQL Server Installations
- ✓ Instance & Collations
- ✓ SSMS Tool Installation
- ✓ Connections, Authentications

Ch 3: SQL Basics V1 (Commands)

- ✓ SQL Basics (DDL, DML, etc.)

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- ✓ Creating Databases, Tables
- ✓ Data Inserts (GUI, SQL)
- ✓ Basic SELECT Queries

Ch 4: SQL Basics V2 (Commands, Operators)

- ✓ DDL: Create, Alter, Drop
- ✓ DML: Insert, Update, Delete
- ✓ DQL: Select, Fetch
- ✓ Add, Truncate Statements
- ✓ SQL Operators

Ch 5: Data Types

- ✓ Integer Data Types
- ✓ Character, MAX Data Types
- ✓ Decimal & Boolean Data Types
- ✓ Date and Time Data Types
- ✓ SQL_Variant Type

Ch 6: Data Imports

- ✓ Data Imports with Excel
- ✓ Data Imports with CSV
- ✓ Auto Detection of Data Types
- ✓ OLE-DB Connections
- ✓ Order By, TOP, OFFSET

Ch 7: Schemas & Batches

- ✓ 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 Key & Check
- ✓ Primary Key Constraint
- ✓ Foreign Keys, Default
- ✓ DB Diagrams & ER Models

Ch 9: Joins & Queries

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data
- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Self Joins & Aliases

Ch 10: Views & RLS

- ✓ Views: Realtime Usage

- ✓ DML, SELECT with Views
- ✓ WITH CHECK OPTION
- ✓ Row Level Security (RLS)
- ✓ Important System Views

Ch 11: Stored Procedures

- ✓ Stored Procedures: Realtime Use
- ✓ Parameters Concept with SPs
- ✓ Procedures with SELECT
- ✓ System Stored Procedures
- ✓ Stored Procedures, Tuning

Ch 12: User Defined Functions

- ✓ Functions in Real-world
- ✓ Scalar & Table Value Functions
- ✓ Parameterized Queries
- ✓ Variables & Parameters
- ✓ Function Executions

Ch 13: Triggers & Automations

- ✓ Triggers in Real-world
- ✓ DDL & DML Triggers
- ✓ For / After Triggers
- ✓ Instead Of Triggers
- ✓ Disabling DMLs Triggers

Ch 14: Transactions & ACID

- ✓ Auto Commit Transaction
- ✓ Explicit Transactions
- ✓ COMMIT, ROLLBACK
- ✓ Checkpoint & Query Blocking
- ✓ READPAST, LOCKHINT

Ch 15: CTEs & Tuning

- ✓ Common Table Expression
- ✓ CTEs for Data Retrieval
- ✓ CTEs for DML Operations
- ✓ CTEs for Data Cleansing
- ✓ CTEs with Row Number

Ch 16: Linked Servers

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

Ch 17: 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 18: 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 19: Backups

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

Ch 20: 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 21: Jobs, Maintenance & DB Mail

- ✓ SQL Server Agent Service
- ✓ Job Steps & Schedules
- ✓ DB Maintenance Plans
- ✓ Backup Maintenance
- ✓ Common Errors, Solutions
- ✓ SMTP, Email Profile
- ✓ Alert System : Agent Settings
- ✓ Operators, Job 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 & Data Flush

Ch 25: Tuning: Indexes

- ✓ Indexes: Sort Locations
- ✓ Clustered & Online Indexes
- ✓ Non Clustered, Column Store
- ✓ Included Indexes in Realtime
- ✓ Covering Index & Selectivity
- ✓ Indexed Views (Materialized)

Ch 26: Tuning: Partitions

- ✓ Partitions: Performance Tuning
- ✓ Partition Functions & Schemes
- ✓ Partition Un-partitioned Tables
- ✓ Compressions: ROW, PAGE
- ✓ Partitions Limitations in OLTP
- ✓ Partitions with DWH

Ch 27: Statistics & Tuning

- ✓ Statistics: Realtime Usage
- ✓ Index & Column Statistics
- ✓ Statistics & Key Purpose

- ✓ 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 DOP
- ✓ 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
- ✓ CTEs & 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
- ✓ Maintenance Plans
- ✓ Database States

Ch 41: Updates & Upgrades

- ✓ Updates Process
- ✓ RTM, SP, CU (Cumulative Updates)
- ✓ Upgrades Process (In-Place)
- ✓ Cautions & Maintenance
- ✓ Rollbacks

Ch 42: 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 43: AI for SQL DBA, SLA & OLA Process

- ✓ AI Extensions
- ✓ AI Optimizations
- ✓ SLA – OLA Process
- ✓ Ticketing Tools
- ✓ 3rd Party Tools
- ✓ Common Errors & Solutions

Ch 44: SQL DBA Project – Phase 1 (Enterprise SQL Server Database Administration)

- ✓ Routine DBA Activities
- ✓ Emergency DBA Activities
- ✓ Maintenance DBA Activities
- ✓ Auditing Techniques
- ✓ RCA (Root Cause Analysis)

Ch 45: SQL DBA Project – Phase 2 (Enterprise SQL Server Database Administration)

- ✓ 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

Ch 49: Elastic Pools

- ✓ Creating Elastic Pools
- ✓ Elastic DTUs (eDTU) Usage
- ✓ Elastic Query Processing
- ✓ Per Database Allocations

- ✓ Realtime Use
- ✓ Cost Optimizations

Ch 50: Azure Storage Account

- ✓ Azure Storage Account
- ✓ Azure Data Lake Storage Account
- ✓ Hierarchical Name Space (HNS)
- ✓ Storage Containers
- ✓ File Uploads

Ch 51: Azure SQL DB Migrations

- ✓ SQL DB Migration Options
- ✓ Data Migration Assistant: DMA
- ✓ DMA Tool, Migration Options
- ✓ On-Premises DB Export
- ✓ Azure SQL Database Import

Ch 52: Azure SQL DB Tuning - 1

- ✓ Server Level Tuning
- ✓ Database Level Tuning
- ✓ Built-In Intelligence
- ✓ Index Options
- ✓ Index Hints

Ch 53: Azure SQL DB Tuning - 2

- ✓ Using Azure AI
- ✓ AI Search Service
- ✓ AI Indexes, Practical Use
- ✓ Watermark Columns
- ✓ Index Refresh Options

Ch 54: Azure SQL DB Metrics

- ✓ Azure SQL DB Metrics
- ✓ CPU, Memory, Log Metrics
- ✓ Data File Metrics, Alerts
- ✓ Action Groups & Emails
- ✓ Query Recommendations

Ch 55: Azure SQL DB Backups

- ✓ Azure SQL DB Backups
- ✓ Backup Retention Options
- ✓ LTR Backups, Log Backups
- ✓ Automated Backups
- ✓ Backup Configurations
- ✓ Backup History

Ch 56: Azure SQL DB Restores

- ✓ Azure SQL DB Restores
- ✓ LTR Restores
- ✓ PITR Restores
- ✓ Server Level Restores
- ✓ Database Level Restores

Ch 57: HA DR @ Replication

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

Ch 58: HA DR @ Server Failover

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

Ch 59: Azure Security - 1

- ✓ Azure SQL Server Security
- ✓ Creating Logins & Users
- ✓ Grant, With Grant
- ✓ Database Roles & Security
- ✓ Schema Level Security

Ch 60: Azure Security - 2

- ✓ Row Level Security (RLS)
- ✓ Predicate Function
- ✓ Dynamic RLS
- ✓ Security Functions
- ✓ Dynamic Data Masking
- ✓ Email and Phone Number Masking

Ch 61: Azure Security - 3

- ✓ Azure AD Users
- ✓ AD Principals
- ✓ Creating AD Users
- ✓ IAM Concepts
- ✓ Implementing RBAC
- ✓ MFA Authentication

Ch 62: Azure Virtual Machines

- ✓ Azure IaaS Implementation

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

Ch 63: 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 64: SQL Server Clusters

- ✓ Creating SQL Clusters
- ✓ Cluster Nodes
- ✓ Master Node
- ✓ Cluster Components
- ✓ Testing SQL Clusters

Ch 65: Always-On

- ✓ Configure Always-On
- ✓ Testing, Using Always-On
- ✓ AOAG Implementation
- ✓ AOAG Monitoring
- ✓ Comparing Paas & IaaS

Ch 66: PowerShell

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

Ch 67: Azure Managed Instance

- ✓ Azure MI Implementation
- ✓ Network Entities for MI
- ✓ Cloud Azure MI Access
- ✓ Azure MI Implementation
- ✓ Azure MI Migrations
- ✓ On-Premises Versus Azure

Ch 68: SQL DBA Exam

- ✓ DP 300 Exam Guidance
- ✓ Exam Pattern
- ✓ Exam Prep. Guide
- ✓ Exam Gumps
- ✓ Exam Mocks
- ✓ Resume Assistance

Ch 69: Real-Time Project (Enterprise SQL Server DBA in Cloud) - Phase 1

- ✓ Azure Cloud Migrations
- ✓ Azure Cloud Management
- ✓ Troubleshooting
- ✓ Routine SQL DBA Activities

Ch 70: Real-Time Project (Enterprise SQL Server DBA in Cloud) - Phase 2

- ✓ Maintenance DBA Activities
- ✓ Performance Tuning
- ✓ Azure Cloud (IaaS) Clusters
- ✓ Always-On

BONUS Module

- ✓ 1:1 Profile Discussion
- ✓ Resume Guidance
- ✓ Resume Optimization
- ✓ Mock Interviews
- ✓ Placement Assistance

Module 3: PostgreSQL DBA Concepts

Ch 1: PostgreSQL Introduction

- ✓ Database Concepts
- ✓ DBA Job Roles
- ✓ PostgreSQL DBMS
- ✓ Postgres Editions

Ch 2: Installation & Setup

- ✓ Installing PostgreSQL on Linux
- ✓ Installing PostgreSQL on Windows
- ✓ Package-based Installation
- ✓ PostgreSQL Directory Structure
- ✓ Initial Cluster Creation
- ✓ Start, Stop & Restart using pg_ctl

- ✓ PostgreSQL using systemctl

Ch 3: Database Administration

- ✓ Creating Databases
- ✓ Managing Schemas
- ✓ Tablespaces
- ✓ Roles & Users
- ✓ Privileges & Permissions
- ✓ Default Privileges

Ch 4: Configuration Management

- ✓ postgresql.conf
- ✓ pg_hba.conf
- ✓ pg_ident.conf
- ✓ Reload vs Restart
- ✓ Parameter Classification
- ✓ Memory Configuration
- ✓ Logging Configuration

Ch 5: Security Management

- ✓ Authentication Methods
- ✓ SSL Concepts

Ch 6: PostgreSQL Architecture

- ✓ PostgreSQL Process Architecture
- ✓ PostgreSQL Storage Architecture
- ✓ System Catalogs

Ch 7: Tools & Utilities

- ✓ psql
- ✓ pgAdmin
- ✓ createdb
- ✓ dropdb
- ✓ createuser
- ✓ dropuser

Ch 8: Backup & Recovery

- ✓ Logical Backup
- ✓ pg_dump
- ✓ pg_restore
- ✓ pg_dumpall
- ✓ Physical Backup
- ✓ Base Backup (pg_basebackup)

Ch 9: WAL Fundamentals

- ✓ WAL Architecture
- ✓ WAL Files
- ✓ Checkpoints
- ✓ WAL Configuration

Ch 10: Routine Maintenance

- ✓ VACUUM
- ✓ VACUUM FULL
- ✓ ANALYZE
- ✓ AUTOVACUUM
- ✓ REINDEX
- ✓ CLUSTER, MVCC
- ✓ Maintenance Best Practices

Ch 11: Monitoring

- ✓ pg_stat_activity
- ✓ pg_stat_database
- ✓ pg_locks
- ✓ pg_stat_user_tables
- ✓ pg_stat_statements
- ✓ Session Monitoring

Ch 12: Extensions

- ✓ pg_stat_statements
- ✓ pg_buffercache
- ✓ postgres_fdw
- ✓ pg_repack
- ✓ pgstattuple
- ✓ uuid-oss

Ch 13: Advanced Backup & Recovery Strategies

- ✓ WAL Archiving
- ✓ Point-in-Time Recovery (PITR)
- ✓ Recovery Targets
- ✓ pgBackRest/Barman
- ✓ Backup Scheduling using Cron Jobs

Ch 14: Performance Tuning - 1

- ✓ PostgreSQL Optimizer
- ✓ Query Planner
- ✓ EXPLAIN, EXPLAIN ANALYZE

- ✓ Buffer Usage

Ch 15: Performance Tuning - 2

- ✓ Cost Estimation
- ✓ Slow Query Analysis
- ✓ Index Optimization
- ✓ Execution Plans
- ✓ Join Strategies
- ✓ Parallel Queries

Ch 16: Indexing

- ✓ B-tree
- ✓ Hash, GIN
- ✓ GiST, BRIN
- ✓ Expression Indexes
- ✓ Partial Indexes
- ✓ Covering Indexes (INCLUDE)

Ch 17: Vacuum Internals

- ✓ Dead Tuples
- ✓ Auto vacuum Internals
- ✓ Bloat Analysis

Ch 18: Locking & Wait Events

- ✓ Lock Types
- ✓ Deadlocks
- ✓ Blocking Sessions
- ✓ Types of Wait Events
- ✓ Transaction Isolation Levels

Ch 19: Replication

- ✓ Streaming Replication
- ✓ Logical Replication
- ✓ Synchronous Replication
- ✓ Asynchronous Replication
- ✓ Cascading Replication
- ✓ Replication Lag Monitoring

Ch 20: High Availability

- ✓ Failover, Switchover
- ✓ Automatic Failover (pgpool-II / Patroni)
- ✓ Disaster Recovery (DR)

Ch 21: Partitioning

- ✓ Range, List
- ✓ Hash
- ✓ Partition Pruning

Ch 22: Upgrades

- ✓ Minor Version Upgrade
- ✓ Major Version Upgrade
- ✓ pg_upgrade
- ✓ Best Practices Upgrade
- ✓ Rollback Planning

Ch 23: Enterprise Monitoring

- ✓ Prometheus
- ✓ Grafana

Module 4: PostgreSQL Administration in Cloud (Azure)

Ch 24: Cloud Fundamentals

- ✓ IaaS
- ✓ PaaS
- ✓ SaaS
- ✓ Managed PostgreSQL

Ch 25: Introduction to Azure Database for PostgreSQL

- ✓ Overview of Azure Database Services
- ✓ PostgreSQL on Azure Architecture
- ✓ Deployment Models

Ch 26: Azure Postgres DBA: Flexible Server

- ✓ Creating Flexible Server
- ✓ Compute and Storage Options
- ✓ Networking Configuration
- ✓ Start/Stop Server
- ✓ Cost Optimization

Ch 27: Azure Postgres DBA: Single Server

- ✓ Single Server Architecture
- ✓ Features and Limitations
- ✓ Single Server vs Flexible Server

Ch 28: Azure Postgres DBA: Backups

- ✓ Automated Backups
- ✓ Backup Retention Period
- ✓ Point-in-Time Recovery (PITR)
- ✓ Restore Operations
- ✓ Backup Monitoring
- ✓ Backup Best Practices

Ch 29: Azure Postgres DBA: Migration

- ✓ Azure DB Migration Service (DMS)
- ✓ pg_dump and pg_restore

Ch 30: Azure Postgres DBA: Monitoring

- ✓ Metrics and Alerts
- ✓ Performance Dashboard
- ✓ Query Performance Insights

Ch 31: Azure Postgres DBA: High Availability and Replication

- ✓ HA Architecture
- ✓ Read Replica
- ✓ Replica Creation
- ✓ Failover Process
- ✓ Disaster Recovery (DR)

Ch 32: PostgreSQL DBA Realtime Project

Enterprise PostgreSQL Production Database Administration

Project Scenario:

A retail/e-commerce company runs a business-critical PostgreSQL production database.

Environment:

PostgreSQL on Linux with one **Primary Server**, one **Standby/DR Server**, and a monitoring environment.

Phase 1 — Installation & Production Setup

Phase 2 — Backup & Disaster Recovery

Phase 3 — Performance Tuning

Phase 4 — Production Issues & Troubleshooting

Phase 5 — HA & Replication

Phase 6 — Monitoring

Final Project Deliverables

Students should submit **architecture diagram + installation document + backup/recovery plan + PITR evidence + performance-tuning report + HA/DR configuration + monitoring dashboard + troubleshooting tickets + RCA documents + final project presentation.**

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Thank You!

Your interest in our training means a lot to us!
We have received your details. Our team will get back to you shortly with the next steps.

 Detailed Course Information

 Demo Session Details

 Career Guidance & Support

Mr. Sai Phanindra Tholeti
SQL DBA Since 2006.
Alumni of Microsoft, Delloitte, Infosys, LTI MindTree, more...

 **SQL DBA**

 **Azure DBA**

 **Postgres**

Reach Us:

 www.sqlschool.com

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