



100% PRACTICAL | REALTIME PROJECTS
JOB ASSISTANCE | 1:1 MENTORSHIP

SQL DBA with AZURE

Learn. Practice. Build Your Career in Cloud.

- ✓ SQL Server Administration
- ✓ Database Design & Optimization
- ✓ Backup, Recovery & High Availability
- ✓ Azure SQL Database & Managed Instance
- ✓ Security, Monitoring & Performance Tuning
- ✓ Real-time Projects & Interview Preparation

 Azure SQL Database
 Azure SQL Managed Instance
 Azure Synapse Analytics
 Azure Data Lake Storage
 Azure Data Factory

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Become a SQL DBA with Azure & AI

This comprehensive training program is designed to transform beginners and working professionals into industry-ready **SQL DBAs with Azure Cloud expertise**. The course combines SQL Server Administration, Azure SQL Database, 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
- ✓ Realtime Issues, Solutions
- ✓ Cloud Management
- ✓ Job ready Activities and Process Integration, more.. !

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

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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
- Database Migration Specialist

How to become a DBA?

Choose your preferred plan as per below. We prefer you choose **Plan B** or **Plan C** for best job options:

SQL DBA TRAINING PLANS					Choose the Right Plan for Your Career Growth	
Plan	Modules Included	Duration	Number of Projects	Who can join?		
DBA Plan A (Starter Plan)	1. Core SQL DBA	 6 Weeks	 One Realtime Project	 Starters (Beginners)		
DBA Plan B (Career Builder)	1. Core SQL DBA 2. Azure SQL DBA, AI Tuning	 9 Weeks	 Two Realtime Projects	 Experienced		
DBA Plan C (Advanced Plan)	1. Core SQL DBA 2. Azure SQL DBA, AI Tuning 3. PostgreSQL DBA with Azure	 16 Weeks	 Three Realtime Projects	 More Experienced		

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

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- ✓ SSMS Tool Installation
- ✓ Connections, Authentications

Ch 3: SQL Basics V1 (Commands)

- ✓ SQL Basics (DDL, DML, etc.)
- ✓ 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.**

Don't Just Learn PostgreSQL. Manage It Like a Production DBA.

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Thank You!
Your Journey to Becoming a PostgreSQL DBA Starts Today!

Congratulations on taking the first step towards mastering PostgreSQL Administration with Azure & AI. With dedication, practice and expert guidance, you are now on the path to a successful and high-growth database career.

WHAT YOU WILL GAIN

- PostgreSQL Administration Expertise
- Azure PostgreSQL Cloud Skills
- Backup, Recovery & High Availability
- Performance Tuning & Query Optimization
- Enterprise Security & Monitoring
- Real-Time DBA Projects
- Resume Building & LinkedIn Optimization
- Interview Preparation & Mock Interviews
- Certification Guidance
- Lifetime Learning Community Support

LEARN • PRACTICE • BUILD • SUCCEED

20+ YEARS OF TRUST | **ISO CERTIFIED** | **MSME REGISTERED (Govt. of India)** | **100% PRACTICAL HANDS-ON TRAINING** | **STEP-BY-STEP LEARNING APPROACH** | **CAREER GUIDANCE & PLACEMENT SUPPORT**

READY TO JOIN THE NEXT BATCH?
Scan the QR Code to Register

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