



Complete Practical: Real-time Job Oriented Training

PostgreSQL DBA with Azure

Thank you for contacting our **SQLSchool** Training Institute. We assure you 100% Practical, step-by-step training on **PostgreSQL DBA** Training.

Who we are?

Over 19 Years of strong commitment in training excellence, we assure you a 100% practical, step-by-step learning process paired with Assignments, Use Case Scenarios, and real-time project Implementations for your Resume and Job Work. We are sure you will have a wonderful journey with us.

Details of our PostgreSQL DBA Training

What is Postgres?

Postgres is a open-source Platform to store, manage, and administer databases. Very easy and versatile. Easy to manage and operate.

What is a PostgreSQL DBA Job Role?

A PostgreSQL Database Administrator (DBA) manages, maintains, and optimizes PostgreSQL database systems. **Key Responsibilities include:**

1. Database Administration
2. Performance Tuning
3. Backup and Recovery
4. DB Security
5. Upgrades and Migrations
6. Database Design
7. Monitoring and Maintenance
8. Cloud Migrations
9. Cloud Management
10. Cloud Security & HA DR, more.

Who can join this course?

For Free Demo, Latest Schedules, call us on +91 96666 40801 or visit www.sqlschool.com/register

1. Existing Other Database Administrators (DBA)
2. Database Developers.
3. System Administrators.
4. Data Analysts/Scientists.
5. IT Professionals.
6. Students.
7. Developers
8. Data Engineers
9. Anyone who wanted to step into / start career in Database Platform

What about the Lab? What are the System Requirements?

Here are the system requirements to install PostgreSQL:

Hardware Requirements:

1. RAM: 8 GB or Higher
3. Storage: 10 GB or more of free disk space

Software Requirements:

Operating System: PostgreSQL supports various operating systems, including:

- Linux (Ubuntu, Red Hat, CentOS, etc.)
- Windows (10, 8, 7, Server 2019, etc.)
- macOS (10.12 or later)
- FreeBSD / OpenBSD / Solaris

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 PostgreSQL DBA Course.

How do I join the course?

Reach us for a free demo on +91 9666440801 or visit us on

www.sqlschool.com/schedules

Training Options (Plans):

	Modules	Chapters Included	Duration
PostgreSQL DBA Plan A	1. PostgreSQL DBA	Chapters 1 to 30	6 Weeks
PostgreSQL SQL DBA Plan B	1. PostgreSQL DBA 2. Azure PostgreSQL DBA	Chapters 1 to 45	8 Weeks

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Module 1: PostgreSQL DBA

Ch 1: Intro to PostgreSQL <ul style="list-style-type: none">✓ Overview & Use Cases✓ PostgreSQL History & Growth✓ Core Features & Licensing✓ Architecture Highlights	Ch 2: Installation <ul style="list-style-type: none">✓ Windows Setup Steps✓ Linux via Yum/RPM✓ Source Code Installation✓ Contrib Module Installation	Ch 3: Config & File Structure <ul style="list-style-type: none">✓ Data & Base Directory✓ PostgreSQL.conf Overview✓ pg_hba.conf & Authentication✓ File System Structure
Ch 4: DB Cluster <ul style="list-style-type: none">✓ Initdb & Cluster Setup✓ Start/Stop/Reload Commands✓ Windows & Linux Cluster Demos✓ Systemctl Integration	Ch 5: Architecture <ul style="list-style-type: none">✓ Postmaster Process Flow✓ Backend Utility Processes✓ Shared Memory Segments✓ Memory Components Explained	Ch 6: Objects & Privileges <ul style="list-style-type: none">✓ Create/Drop DB & Users✓ Schema Management✓ Search Path Configurations✓ Grant & Revoke Commands
Ch 7: Tools & Catalog <ul style="list-style-type: none">✓ psql Command Line Usage✓ pgAdmin GUI Operations✓ pg_catalog Schema Insights✓ Metadata & Info Schema	Ch 8: CRUD Operations <ul style="list-style-type: none">✓ CREATE TABLE Syntax✓ INSERT, UPDATE, DELETE✓ TRUNCATE vs DELETE✓ Data Types & Constraints	Ch 9: Tablespaces <ul style="list-style-type: none">✓ Tablespace Concepts✓ pg_default & pg_global✓ Create/Drop Tablespaces✓ Temporary Tablespace Use
Ch 10: Backup & Restore – I <ul style="list-style-type: none">✓ Logical Backups (pg_dump)✓ Restore with pg_restore✓ Online vs Offline Backups✓ pg_basebackup Overview	Ch 11: Backup & Restore – II <ul style="list-style-type: none">✓ pgBackRest Utility✓ Configure PITR Steps✓ Timeline & WAL Archives✓ Restore PITR Scenarios	Ch 12: MVCC <ul style="list-style-type: none">✓ What is MVCC?✓ MVCC Transaction Flow✓ Data Structures & Snapshots✓ Transaction ID Wraparound

Ch 13: Maintenance & Vacuum ✓ VACUUM Types ✓ ANALYZE Command Use ✓ Clustering Tables ✓ Auto-Vacuum Settings	Ch 14: Joins & Constraints ✓ Join Types (INNER, OUTER) ✓ Primary & Foreign Keys ✓ NOT NULL & UNIQUE Constraints ✓ ER Diagrams Overview	Ch 15: Indexes ✓ B-Tree Index Structure ✓ Hash & Expression Indexes ✓ GiST & SP-GiST Indexes ✓ GIN & BRIN Use Cases
Ch 16: Performance Tuning – I ✓ VACUUM & Partitioning ✓ Query Plans (EXPLAIN) ✓ Index Usage Analysis ✓ Subquery Optimization	Ch 17: Performance Tuning – II ✓ shared_buffers & work_mem ✓ effective_cache_size Setup ✓ pg_stat Monitoring ✓ CPU, RAM & Storage Tuning	Ch 18: Data Loading ✓ COPY Command Usage ✓ pgloader Configuration ✓ Import/Export Data Sets ✓ Use of FDWs
Ch 19: Extensions ✓ Overview of Extensions ✓ Installing Extensions ✓ Common Examples (postgis, hstore) ✓ Managing Extensions	Ch 20: HA & Replication – I ✓ Streaming Replication Setup ✓ Master & Standby Config ✓ Manual Failover Process ✓ promote Command Demo	Ch 21-22: HA & Replication – II ✓ Logical Replication Basics ✓ Configure Publishers/Subscribers ✓ Auto Switchover Techniques ✓ Sync vs Async Modes
Ch 23-24: HA Tools & Software ✓ pgpool Setup & Load Balancing ✓ repmgr Cluster Management ✓ Patroni with etcd/Consul ✓ Failover Automation	Ch 25-26: HA & DR Strategies ✓ DR Concepts & Objectives ✓ Multi-Master Replication ✓ PITR as DR Strategy ✓ DR Tools & Integration	Ch 27: Tuning & Partitioning ✓ Configurable Parameters ✓ Partition Types (List, Range) ✓ Partitioning Strategy ✓ Performance Impact

Ch 28: Migration to PostgreSQL ✓ Manual SQL Migration ✓ pg_dump & restore ✓ Migration via DMS Tools ✓ 3rd Party Migration Tools	Ch 29: PostgreSQL Upgrades ✓ Upgrade Options ✓ Minor vs Major Upgrade ✓ pg_upgrade Tool ✓ Post-upgrade Validation	Ch 30: Monitoring & Reporting ✓ Grafana Integration ✓ pg_stat_statements ✓ pgBadger Reports ✓ Real-Time Monitoring
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Module 2: Azure PostgreSQL DBA

Ch 31: Migration to PostgreSQL ✓ Manual SQL Migration ✓ pg_dump & restore ✓ Migration via DMS Tools ✓ 3rd Party Migration Tools	Ch 32: PostgreSQL Upgrades ✓ Upgrade Options ✓ Minor vs Major Upgrade ✓ pg_upgrade Tool ✓ Post-upgrade Validation	Ch 33: Monitoring & Reporting ✓ Grafana Integration ✓ pg_stat_statements ✓ pgBadger Reports ✓ Real-Time Monitoring
Ch 34: Azure Cloud Fundamentals ✓ Cloud Concepts (IaaS, PaaS) ✓ Azure Subscriptions ✓ Azure Services for DBAs ✓ Deployment Models	Ch 35: PostgreSQL in Azure ✓ Benefits of Azure Platform ✓ Cost & Security Advantages ✓ High Availability Features ✓ Scalability Options	Ch 36: PostgreSQL Deployment Options ✓ Azure VM-based PostgreSQL ✓ Azure DB for PostgreSQL (PaaS) ✓ Azure Kubernetes with PG ✓ Decision Making: When to Use What
Ch 37: CRUD in Azure PostgreSQL ✓ Create & Drop DB/Users ✓ CRUD Query Syntax ✓ Access Control ✓ pgAdmin in Azure	Ch 38: Migration to Azure ✓ Azure DMS Setup ✓ ADF for Data Transfer ✓ Manual vs Tool-based Migration ✓ 3rd-Party Tool Integration	Ch 39: Azure Backups ✓ Azure Native Backup Options ✓ Enabling Auto Backups ✓ Snapshot Configurations ✓ Backup Retention Policies

Ch 40: Restore in Azure ✓ PITR Setup in Azure ✓ Manual Restore via Portal ✓ Using pg_restore in Azure ✓ DR Restore Scenarios	Ch 41: Performance Tuning in Azure ✓ Query Tuning Tools ✓ PostgreSQL Server Parameters ✓ Auto-Scaling Best Practices ✓ Monitoring Metrics	Ch 42: Azure High Availability ✓ HA Deployment Architectures ✓ Azure Built-in HA Services ✓ Third-party HA Tools ✓ Failover Config & Testing
Ch 43: Azure Disaster Recovery (DR) ✓ DR Architecture & Strategies ✓ PITR & Backup DR Use ✓ Azure DR Tools ✓ DR Automation Best Practices	Ch 44: Real-time Project	Ch 45: Resume Guidance, Mock Interview Questions

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New batch Schedules: www.sqlschool.com/Register

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