

SQL SCHOOL
Quality Training Assured

Launching 

POSTGRES SQL

DEVELOPER COURSE

Build. Develop. Scale. With PostgreSQL

- Core SQL & Advanced Queries
- Database Design & Development
- Functions, Triggers & Procedures
- Cloud

- Hands-on Training
- Real-time Projects
- Expert Mentorship
- Interview Preparation

ENROLL NOW! 

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PostgreSQL

- ACID Compliant
- Scalable & Flexible
- Powerful Open Source Database
- High Performance
- Secure & Reliable

Kickstart Your Career with **PostgreSQL!**
The World's Most Advanced Open Source Database

Thank you for contacting our **SQL School** Training Institute. We assure you 100% Practical, Step by Step Trainings on **Postgres SQL** Training.

Whom we are?

Over 20 Years of strong commitment in training excellence, we assure you 100% practical, step by step learning process paired with Assignments, Use Case Scenarios and Realtime Project Implementations for your Resume and Job Work. We are sure, you will have a wonderful journey with us.

What is Postgres?

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

What is PostgreSQL Developer Job Role?

A PostgreSQL Developer is responsible for designing, developing, and maintaining databases using PostgreSQL, an open-source relational database management system. Here are some key responsibilities and skills required for a PostgreSQL Developer job

What are PostgreSQL Developer Job Role Key Responsibilities?

1. Designing and implementing database schemas, tables, and relationships
2. Developing and optimizing SQL queries, stored procedures, and functions
3. Creating and maintaining database indexes, views, and triggers
4. Ensuring data integrity, security, and performance
5. Securing database and optimizing database performance
6. Writing and maintaining database documentation

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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:

- Any OS works (Windows, Linux, Mac, any other)

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 Course.

What is the duration of this course?

This PostgreSQL course is planned for 1 month (Weekly six days), Daily 1 hour practical step by step class.

Course includes:

- ✓ Concept Wise Notes
- ✓ Concept Wise Assignments
- ✓ ONE Realtime Project
- ✓ Resume Assistance.

How do I join the course?

Reach us for free demo on +91 9951440801 or visit us on <https://sqlschool.com/postgresql-training/>

Who can join this course?

This PostgreSQL course is suitable for various professionals and individuals who want to learn about PostgreSQL Concepts in detail, step by step.

Detailed Course Curriculum

Module 1: SQL Concepts & DB Design, Queries

Chapter 1: Introduction to Databases

- ✓ Database Fundamentals
- ✓ Database Objects (Entities)
- ✓ Database Management System
- ✓ DBMS and RDBMS Concepts
- ✓ SQL Server, Oracle, Postgres
- ✓ Advantages of Postgres

Chapter 2: Introduction to Postgres

- ✓ Overview of PostgreSQL
- ✓ History Of PostgreSQL
- ✓ Versions and Benefits of PostgreSQL
- ✓ PostgreSQL Architecture
- ✓ Postgres Installation
- ✓ PGAdmin Tool Usage

Chapter 3: SQL Fundamentals - 1

- ✓ Introduction to SQL
- ✓ DDL Statements
- ✓ DML Statements
- ✓ DQL Statements
- ✓ Basic SQL syntax
- ✓ Creating Databases, Tables
- ✓ Data Insertions

Chapter 4: SQL Fundamentals - 2

- ✓ DDL Statements
- ✓ DML Statements
- ✓ Data Insertion Types
- ✓ Delete Versus Truncate
- ✓ Querying data
- ✓ SELECT, FROM, WHERE

Chapter 5: SQL Fundamentals - 3

- ✓ PostgreSQL Concepts
- ✓ DB Design Concepts
- ✓ Table Insertion Concepts
- ✓ DQL Statements
- ✓ PG Admin Tool Usage

Chapter 6: Data Types

- ✓ PostgreSQL data types
- ✓ integer, string
- ✓ date, time, etc.
- ✓ Data Types & Sizes
- ✓ Selecting Correct Data Type

Chapter 7: Postgres SQL Operators

- ✓ Arithmetic Operators
- ✓ Comparison Operators
- ✓ Logical Operators
- ✓ String Operators
- ✓ Operators & Operands
- ✓ Using Operators in SQL Queries

Chapter 8: Constraints, RDBMS – 1

- ✓ Constraints & Validations
- ✓ Primary Key Constraint
- ✓ Unique Key Constraints
- ✓ Foreign Key Constraints
- ✓ Null, Not Null Constraints
- ✓ Default Constraints

Chapter 9: Normal Forms & RDBMS – 2

- ✓ Normal Forms
- ✓ 1:M Relationships
- ✓ M:1 Relationships
- ✓ M:1 Relationships
- ✓ Self References
- ✓ ER Models
- ✓ Auto Increment Columns

Chapter 10: Joins & Queries

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data
- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Cross Join & Table Combination
- ✓ Joining more than 2 tables

Chapter 11: Sub Queries

- ✓ Sub Query Concept
- ✓ Using Sub Queries with Joins
- ✓ DISTINCT, UNION
- ✓ UNION ALL
- ✓ Order By Concept

Chapter 12: Group By Queries in SQL

- ✓ Group By, Distinct Keywords
- ✓ GROUP BY, HAVING
- ✓ Cube() and Rollup()
- ✓ Sub Totals & Grand Totals
- ✓ Grouping() & Usage
- ✓ Group By with Joins

Ch 13: Views & Data Analytics

- ✓ Views: Realtime Usage
- ✓ Storing SELECT in Views
- ✓ DML, SELECT with Views
- ✓ Using Views with Excel
- ✓ Excel Pivot Tables
- ✓ Excel Pivot Charts

Ch 14: Tools (psql & pgAdmin) and catalog

- ✓ Using psql command line interface (CLI)
- ✓ pgAdmin(GUI)
- ✓ pg_catalog
- ✓ information_schema

Ch 15: Tablespaces

- ✓ Tablespace Introduction
- ✓ Default Tablespace (pg_default & pg_global)

- ✓ Local & Global Tablespaces
- ✓ Create/Drop Tablespaces

Ch 16: Indexing and Query Tuning

- ✓ Introduction to Indexes
- ✓ B-Tree, Hash Indexes
- ✓ Indexes Functions, Expressions
- ✓ Indexes and Query Tuning Concepts

Ch 17: Introduction to PL/pgSQL

- ✓ Overview of PL/pgSQL
- ✓ History and evolution of PL/pgSQL
- ✓ Features and benefits of PL/pgSQL
- ✓ Installing and configuring PL/pgSQL
- ✓ Realtime Time Use of PL/pgSQL

Ch 18: PL/pgSQL Basics

- ✓ Variables and Data Types
- ✓ Operators and Expressions
- ✓ Control Structures (IF, LOOP, WHILE)
- ✓ Functions and Procedures

Ch 19: PL/pgSQL Functions

- ✓ Creating PgSQL Functions
- ✓ Function types & Usage
- ✓ Scalar, Aggregate Functions
- ✓ Window Functions
- ✓ Function parameters and return types

Ch 20: PL/pgSQL Stored Procedures

- ✓ Procedure types in Postgres
- ✓ Functions as Stored Procedures
- ✓ Procedure parameters & return types
- ✓ Using functions in SQL queries

Ch 21: PL/pgSQL Triggers & Exception Handling

- ✓ Creating and managing triggers
- ✓ Trigger types (before, after, instead of)
- ✓ Using triggers to enforce data integrity
- ✓ Understanding exceptions in PL/pgSQL
- ✓ Creating and managing exceptions
- ✓ Using exceptions to handle errors

Module 2: Postgres Advanced Concepts

Ch 22: Backup and Restore

- ✓ Introduction to PostgreSQL Backups
- ✓ Backup using pg_dump
- ✓ psql utilities

- ✓ Restore Concepts
- ✓ pg_restore, psql utilities

Ch 23: MVCC (Multi-Version Concurrency Control)

- ✓ What is MVCC in PostgreSQL?
- ✓ How does MVCC work in PostgreSQL?
- ✓ Key Data Structures in MVCC
- ✓ Benefits of MVCC in PostgreSQL
- ✓ Transaction ID Wraparound

Ch 24: Data Loading & FDW

- ✓ Bulk Operations
- ✓ Moving, Copying
- ✓ Export, Import
- ✓ Copy Table
- ✓ pgloader
- ✓ Foreign Data Wrappers (FDW)

Ch 25: Extensions

- ✓ What are Extensions in PostgreSQL?
- ✓ Types of Extensions in PostgreSQL
- ✓ Examples of Extensions in PostgreSQL
- ✓ How to Install/Uninstall Extensions in PostgreSQL

Ch 26: Common Table Expressions (CTE)

- ✓ Types of CTEs
- ✓ Examples with CTEs
- ✓ Query Tuning Concepts
- ✓ Benefits of CTEs
- ✓ Realtime Use Cases

Module 3: Realtime Project (Banking)

- ✓ Project Requirement
- ✓ Project Implementation Plan
- ✓ Project Solution
- ✓ Project FAQs
- ✓ Resume Optimization

How to Enroll?

You have two options. You can opt for our **LIVE Online** (Instructor Led, Interactive Mode) or you can also opt for our Detailed, step by step **Self Paced Videos**. These videos are recorded in latest version of Postgres (Version 18.0).

Either you opt for our LIVE Online or Self Paced videos, same content and same detailed notes. Trainers available for doubts clarifications during your practice. We shall assist you with Resume Preparation and Mock Interviews.



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- 👉 📞 Reach Us: +91 9666 64 0801, +91 9666 44 0801
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- 👉 🌐 Website: www.sqlschool.com
- 👉 📍 Office Address: 202, Sai Anu Avenue, St # 3, Hitec City, Hyderabad, Telangana, India.
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