



*Training Course:  
The Complete SQL Bootcamp 2022: Go from  
Zero to Hero*

*9 - 13 September 2024  
Kigali (Rwanda)*

## Training Course: The Complete SQL Bootcamp 2022: Go from Zero to Hero

Training Course code: IT234876 From: 9 - 13 September 2024 Venue: Kigali (Rwanda) - Training Course Fees: 6545 € Euro

### Introduction

This is a course that puts you in control, and have you set up and restore databases right at the start of the course, instead of watching someone else code. Every section comes with fresh challenge questions and tasks, modeled after real-world tasks and situations.

The Complete SQL Bootcamp 2022: Go from Zero to Hero will allow participants how to read and write complex queries to a database using one of the most in-demand skills - PostgreSQL. These skills are also applicable to any other major SQL database, such as MySQL, Microsoft SQL Server, Amazon Redshift, Oracle, and much more.

Learning SQL is one of the fastest ways to improve your career prospects as it is one of the most in-demand tech skills! In this course, you'll learn quickly and receive challenges and tests along the way to improve your understanding!

### Training Objectives

At the end of this training program, participants will learn:

- Get started with PostgreSQL and PgAdmin.
- Learn the basics of SQL syntax
- Analyzing data using aggregate functions with GROUP BY commands
- Running advanced queries with string operations and comparison operations
- Learn to use logical operators to add logic flow to your SQL queries
- Learn common SQL JOIN commands
- Learn to create tables and databases with constraints on data entries
- Learn to use Python to further advance your SQL skills

### Target Audience

SQL is one of the most in-demand skills for:

- Business analysts
- Data scientists
- Anyone who finds themselves working with data.

### Course Outlines

#### Introduction to SQL

- Windows Installation - PostGreSQL and PgAdmin with Database setup
- MacOS Installation - PostgreSQL and PgAdmin with First Query

#### SQL Statements Fundamentals

- SQL Statement Fundamentals
- SELECT Statement
- Challenge: SELECT
- SELECT DISTINCT
- Challenge: SELECT DISTINCT
- COUNT
- SELECT WHERE - Part One
- SELECT WHERE - Part Two
- ORDER BY
- LIMIT
- Challenge: ORDER BY
- BETWEEN
- IN
- LIKE and ILIKE

### Group By Statements

- Introduction to GROUP BY
- Aggregation Functions
- GROUP BY - Part One
- GROUP BY - Part Two
- GROUP BY - Challenge
- HAVING

### JOINS

- Introduction to JOINS
- AS Statement
- Inner Joins
- Full Outer Joins
- Left Outer Join
- Right Joins
- UNION

### Advanced SQL Commands

- Timestamps and Extract
- Quick Note on TO\_CHAR
- Mathematical Functions and Operators
- String Functions and Operators
- SubQuery
- Self-Join

### Creating Databases and Tables

- Introduction to Section
- Data Types
- Primary Keys and Foreign Keys
- Constraints
- CREATE Table
- INSERT
- UPDATE

- DELETE
- ALTER Table
- DROP Table
- CHECK Constraint

#### Conditional Expressions and Procedures

- Conditional Expressions and Procedures Introduction
- CASE
- COALESCE
- CAST
- NULLIF
- Views
- Import and Export

#### PostgreSQL with Python

- Overview of Python and PostgreSQL
- Psycopg2 Example Usage

## Registration form on the Training Course: The Complete SQL Bootcamp 2022: Go from Zero to Hero

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- Please find enclosed a cheque made payable to Global Horizon
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