

---

# Connect To A Postgresql Database Postgresql Tutorial

---

Thank you totally much for downloading **Connect To A Postgresql Database Postgresql Tutorial**. Most likely you have knowledge that, people have look numerous times for their favorite books with this Connect To A Postgresql Database Postgresql Tutorial, but end occurring in harmful downloads.

Rather than enjoying a fine ebook subsequently a mug of coffee in the afternoon, otherwise they juggled in imitation of some harmful virus inside their computer. **Connect To A Postgresql Database Postgresql Tutorial** is genial in our digital library an online admission to it is set as public as a result you can download it instantly. Our digital library saves in multipart countries, allowing you to acquire the most less latency times to download any of our books following this one. Merely said, the Connect To A Postgresql Database Postgresql Tutorial is universally compatible once any devices to read.

*Connect To A  
Postgresql Database  
Postgresql Tutorial*

*Downloaded from  
[ssm.nwherald.com](http://ssm.nwherald.com) by  
guest*

---

## TRAVIS ENGLISH

---

PostgreSQL 8.4 Official Documentation -  
Volume I. The SQL Language SPARTA  
PUBLISHING

PostgreSQL was designed to run on UNIX-like platforms. However, PostgreSQL was then also designed to be portable so that it could run on various platforms such as Mac OS X, Solaris, and Windows. PostgreSQL is free and open source software. Its source code is available under PostgreSQL license, a liberal open source license. You are free to use, modify and distribute PostgreSQL in any form. PostgreSQL requires very minimum maintained efforts because of its stability. Therefore, if you develop applications based on PostgreSQL, the total cost of ownership is low in comparison with other database management systems. In Chapter 2, you will learn querying data from the postgresql using jdbc including

establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a table using jdbc, updating data in postgresql database using jdbc, calling postgresql stored function using jdbc, deleting data from a postgresql table using jdbc, and postgresql jdbc transaction. In Chapter 3, you will learn managing table structure and views including postgresql data types, postgresql create table, postgresql select into statement, postgresql create table as, using postgresql serial to create auto-increment column, identity column, alter table, drop table, truncate table, check constraint, not-null constraint, foreign key, primary key, unique constraint, managing postgresql views, creating updatable views, materialized views, creating updatable views using the with check option clause, and recursive view.

In Chapter 4, you will learn statements, operators, and clauses including select, order by, select distinct, limit, fetch, in, between, postgresql like, is null, alias, joins, inner join, postgresql left join, self-join, full outer join, cross join, natural join, group by, having, intersect operator, except operator, grouping sets, cube, and rollup. In Chapter 5, you will learn postgresql trigger, aggregate, and string functions including creating the first trigger in postgresql, managing postgresql trigger, aggregate functions, avg function, max function, min function, sum function, postgresql concat function, ascii function, trim function, length function, substring function, regexp\_matches function, regexp\_replace function, replace function, to\_number function, and to\_char function.

*PostgreSQL Developer's Handbook* Packt Publishing Ltd

In this book, you will create two desktop applications using Python GUI and PostgreSQL. This book is a Python/PostgreSQL version of the Python/MySQL book which was written by the author. What underlies the writing of this book is the growing popularity of the PostgreSQL database server lately and more and more programmers migrating from MySQL to PostgreSQL. In this book, you will learn to build a school database project, step by step. A number of widgets from PyQt will be used for the user interface. In the first and second chapter, you will get introduction of postgresql. And then, you will learn querying data from the postgresql using Python including establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data

using a statement that has parameters, inserting data into a table using Python, updating data in postgresql database using Python, calling postgresql stored function using Python, deleting data from a postgresql table using Python, and postgresql Python transaction. In the fourth chapter, you will study: Creating the initial three table in the School database project: Teacher table, Class table, and Subject table; Creating database configuration files; Creating a Python GUI for viewing and navigating the contents of each table. Creating a Python GUI for inserting and editing tables; and Creating a Python GUI to merge and query the three tables. In chapter five, you will learn: Creating the main form to connect all forms; Creating a project that will add three more tables to the school database: the Student table, the Parent table, and the Tuition table; Creating a Python GUI to view and navigate the contents of each table; Creating a Python GUI for editing, inserting, and deleting records in each table; Create a Python GUI to merge and query the three tables and all six tables. In chapter six, you will create dan configure PostgreSQL database. In this chapter, you will create Suspect table in crime database. This table has eleven columns: suspect\_id (primary key), suspect\_name, birth\_date, case\_date, report\_date, suspect\_status, arrest\_date, mother\_name, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for this table. In chapter seven, you will create a table with the name Feature\_Extraction, which has eight columns: feature\_id (primary key), suspect\_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. The six fields (except keys) will have a VARCHAR data type

(200). You will also create GUI to display, edit, insert, and delete for this table. In chapter eight, you will create two tables, Police and Investigator. The Police table has six columns: police\_id (primary key), province, city, address, telephone, and photo. The Investigator table has eight columns: investigator\_id (primary key), investigator\_name, rank, birth\_date, gender, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for both tables. In chapter nine, you will create two tables, Victim and Case\_File. The Victim table has nine columns: victim\_id (primary key), victim\_name, crime\_type, birth\_date, crime\_date, gender, address, telephone, and photo. The Case\_File table has seven columns: case\_file\_id (primary key), suspect\_id (foreign key), police\_id (foreign key), investigator\_id (foreign key), victim\_id (foreign key), status, and description. You will create GUI to display, edit, insert, and delete for both tables as well.

#### *Beginning Databases with PostgreSQL* Fultus Corporation

This book offers the straightforward, practical answers you need to help you do your job. This hands-on tutorial/reference/guide to PostgreSQL and SQL Server is not only perfect for students and beginners, but it also works for experienced developers who aren't getting the most from PostgreSQL and SQL Server. As you would expect, this book shows how to build from scratch two different databases: PostgreSQL and SQL Server using Java. In designing a GUI and as an IDE, you will make use of the NetBeans tool. In chapter one, you will learn: How to install NetBeans, JDK 11, and the PostgreSQL connector; How to integrate external libraries into projects; How the basic PostgreSQL commands are used; How to query

statements to create databases, create tables, fill tables, and manipulate table contents is done. In chapter two, you will learn querying data from the postgresql using jdbc including establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a table using jdbc, updating data in postgresql database using jdbc, calling postgresql stored function using jdbc, deleting data from a postgresql table using jdbc, and postgresql jdbc transaction. In chapter three, you will learn the basics of cryptography using Java. Here, you will learn how to write a Java program to count Hash, MAC (Message Authentication Code), store keys in a KeyStore, generate PrivateKey and PublicKey, encrypt / decrypt data, and generate and verify digital prints. You will also learn how to create and store salt passwords and verify them. In chapter four, you will create a PostgreSQL database, named Bank, and its tables. In chapter five, you will create a Login table. In this case, you will see how to create a Java GUI using NetBeans to implement it. In addition to the Login table, in this chapter you will also create a Client table. In the case of the Client table, you will learn how to generate and save public and private keys into a database. You will also learn how to encrypt / decrypt data and save the results into a database. In chapter six, you will create an Account table. This account table has the following ten fields: account\_id (primary key), client\_id (primarykey), account\_number, account\_date, account\_type, plain\_balance, cipher\_balance, decipher\_balance, digital\_signature, and

signature\_verification. In this case, you will learn how to implement generating and verifying digital prints and storing the results into a database. In chapter seven, you create a table named Client\_Data, which has seven columns: client\_data\_id (primary key), account\_id (primary key), birth\_date, address, mother\_name, telephone, and photo\_path. In chapter eight, you will be taught how to create a SQL Server database, named Crime, and its tables. In chapter nine, you will be taught how to extract image features, utilizing BufferedImage class, in Java GUI. In chapter ten, you will be taught to create Java GUI to view, edit, insert, and delete Suspect table data. This table has eleven columns: suspect\_id (primary key), suspect\_name, birth\_date, case\_date, report\_date, suspect\_status, arrest\_date, mother\_name, address, telephone, and photo. In chapter eleven, you will be taught to create Java GUI to view, edit, insert, and delete Feature\_Extraction table data. This table has eight columns: feature\_id (primary key), suspect\_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. In chapter twelve, you will add two tables: Police\_Station and Investigator. These two tables will later be joined to Suspect table through another table, File\_Case, which will be built in the seventh chapter. The Police\_Station has six columns: police\_station\_id (primary key), location, city, province, telephone, and photo. The Investigator has eight columns: investigator\_id (primary key), investigator\_name, rank, birth\_date, gender, address, telephone, and photo. Here, you will design a Java GUI to display, edit, fill, and delete data in both tables. In chapter thirteen, you will add two tables: Victim and File\_Case. The

File\_Case table will connect four other tables: Suspect, Police\_Station, Investigator and Victim. The Victim table has nine columns: victim\_id (primary key), victim\_name, crime\_type, birth\_date, crime\_date, gender, address, telephone, and photo. The File\_Case has seven columns: file\_case\_id (primary key), suspect\_id (foreign key), police\_station\_id (foreign key), investigator\_id (foreign key), victim\_id (foreign key), status, and description. Here, you will also design a Java GUI to display, edit, fill, and delete data in both tables. Finally, this book is hopefully useful and can improve database programming skills for every Java/PostgreSQL/SQL Server programmer.

### **The Absolute Beginner's Guide to Learn Database Programming Using Python GUI with PostgreSQL and SQL Server Native Enterprise**

This book explains relational theory in practice, and demonstrates through two projects how you can apply it to your use of PostgreSQL and SQLite databases. This book covers the important requirements of teaching databases with a practical and progressive perspective. This book offers the straightforward, practical answers you need to help you do your job. This hands-on tutorial/reference/guide to PostgreSQL and SQLite is not only perfect for students and beginners, but it also works for experienced developers who aren't getting the most from both databases. In designing a GUI and as an IDE, you will make use Qt Designer. In the first chapter, you will learn to use several widgets in PyQt5: Display a welcome message; Use the Radio Button widget; Grouping radio buttons; Displays options in the form of a check box; and Display two groups of check boxes. In chapter

two, you will learn to use the following topics: Using Signal / Slot Editor; Copy and place text from one Line Edit widget to another; Convert data types and make a simple calculator; Use the Spin Box widget; Use scrollbars and sliders; Using the Widget List; Select a number of list items from one Widget List and display them on another Widget List widget; Add items to the Widget List; Perform operations on the Widget List; Use the Combo Box widget; Displays data selected by the user from the Calendar Widget; Creating a hotel reservation application; and Display tabular data using Table Widgets. In chapter three, you will learn: How to create the initial three tables project in the School database: Teacher, Class, and Subject tables; How to create database configuration files; How to create a Python GUI for inserting and editing tables; How to create a Python GUI to join and query the three tables. In chapter four, you will learn how to: Create a main form to connect all forms; Create a project will add three more tables to the school database: Student, Parent, and Tuition tables; Create a Python GUI for inserting and editing tables; Create a Python GUI to join and query over the three tables. In chapter five, you will join the six classes, Teacher, TClass, Subject, Student, Parent, and Tuition and make queries over those tables. In chapter six and chapter seven, you will get introduction of postgresql. And then, you will learn querying data from the postgresql using Python including establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a

table using Python, updating data in postgresql database using Python, calling postgresql stored function using Python, deleting data from a postgresql table using Python, and postgresql Python transaction. In chapter eight, you will create and configure PostgreSQL database. In this chapter, you will create Suspect table in crime database. This table has eleven columns: suspect\_id (primary key), suspect\_name, birth\_date, case\_date, report\_date, suspect\_status, arrest\_date, mother\_name, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for this table. In chapter nine, you will create a table with the name Feature\_Extraction, which has eight columns: feature\_id (primary key), suspect\_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. The six fields (except keys) will have a VARCHAR data type (200). You will also create GUI to display, edit, insert, and delete for this table. In chapter ten, you will create two tables, Police and Investigator. The Police table has six columns: police\_id (primary key), province, city, address, telephone, and photo. The Investigator table has eight columns: investigator\_id (primary key), investigator\_name, rank, birth\_date, gender, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for both tables. In chapter eleven, you will create two tables, Victim and Case\_File. The Victim table has nine columns: victim\_id (primary key), victim\_name, crime\_type, birth\_date, crime\_date, gender, address, telephone, and photo. The Case\_File table has seven columns: case\_file\_id (primary key), suspect\_id (foreign key), police\_id (foreign key), investigator\_id (foreign key), victim\_id (foreign key), status, and description. You will create

GUI to display, edit, insert, and delete for both tables as well.

**PostgreSQL 13 Cookbook** Sams Publishing

Leverage the power of PostgreSQL 11 to build powerful database and data warehousing applications Key Features Monitor, secure, and fine-tune your PostgreSQL 11 database Learn client-side and server-side programming using SQL and PL/pgSQL Discover tips on implementing efficient database solutions Book Description PostgreSQL is one of the most popular open source database management systems in the world, and it supports advanced features included in SQL standards. This book will familiarize you with the latest features in PostgreSQL 11, and get you up and running with building efficient PostgreSQL database solutions from scratch. Learning PostgreSQL, 11 begins by covering the concepts of relational databases and their core principles. You'll explore the Data Definition Language (DDL) and commonly used DDL commands supported by ANSI SQL. You'll also learn how to create tables, define integrity constraints, build indexes, and set up views and other schema objects. As you advance, you'll come to understand Data Manipulation Language (DML) and server-side programming capabilities using PL/pgSQL, giving you a robust background to develop, tune, test, and troubleshoot your database application. The book will guide you in exploring NoSQL capabilities and connecting to your database to manipulate data objects. You'll get to grips with using data warehousing in analytical solutions and reports, and scaling the database for high availability and performance. By the end of this book, you'll have gained a thorough understanding of PostgreSQL

11 and developed the necessary skills to build efficient database solutions. What you will learn Understand the basics of relational databases, relational algebra, and data modeling Install a PostgreSQL server, create a database, and implement your data model Create tables and views, define indexes and stored procedures, and implement triggers Make use of advanced data types such as Arrays, hstore, and JSONB Connect your Python applications to PostgreSQL and work with data efficiently Identify bottlenecks to enhance reliability and performance of database applications Who this book is for This book is for you if you're interested in learning about PostgreSQL from scratch. Those looking to build solid database or data warehousing applications or wanting to get up to speed with the latest features of PostgreSQL 11 will also find this book useful. No prior knowledge of database programming or administration is required to get started. *Professional PHP5* SPARTA PUBLISHING This book is a comprehensive guide to Python as one of the fastest-growing computer languages including Web and Internet applications. This clear and concise introduction to the Python language is aimed at readers who are already familiar with programming in at least one language. This hands-on book introduces the essential topic of coding and the Python computer language to beginners and programmers of all ages. This book explains relational theory in practice, and demonstrates through two projects how you can apply it to your use of PostgreSQL and SQL Server databases. This book covers the important requirements of teaching databases with a practical and progressive perspective. This book offers the straightforward, practical answers

you need to help you do your job. This hands-on tutorial/reference/guide to PostgreSQL and SQL Server is not only perfect for students and beginners, but it also works for experienced developers who aren't getting the most from both databases. In designing a GUI and as an IDE, you will make use of Qt Designer. In the first chapter, you will learn to use several widgets in PyQt5: Display a welcome message; Use the Radio Button widget; Grouping radio buttons; Displays options in the form of a check box; and Display two groups of check boxes. In chapter two, you will learn to use the following topics: Using Signal / Slot Editor; Copy and place text from one Line Edit widget to another; Convert data types and make a simple calculator; Use the Spin Box widget; Use scrollbars and sliders; Using the Widget List; Select a number of list items from one Widget List and display them on another Widget List widget; Add items to the Widget List; Perform operations on the Widget List; Use the Combo Box widget; Displays data selected by the user from the Calendar Widget; Creating a hotel reservation application; and Display tabular data using Table Widgets. In chapter three, you will learn: How to create the initial three tables project in the School database: Teacher, Class, and Subject tables; How to create database configuration files; How to create a Python GUI for inserting and editing tables; How to create a Python GUI to join and query the three tables. In chapter four, you will learn how to: Create a main form to connect all forms; Create a project will add three more tables to the school database: Student, Parent, and Tuition tables; Create a Python GUI for inserting and editing tables; Create a Python GUI to join and query over the three tables. In chapter

five, you will join the six classes, Teacher, TClass, Subject, Student, Parent, and Tuition and make queries over those tables. In chapter six, you will get introduction of postgresql. And then, you will learn querying data from the postgresql using Python including establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a table using Python, updating data in postgresql database using Python, calling postgresql stored function using Python, deleting data from a postgresql table using Python, and postgresql Python transaction. In chapter seven, you will create and configure PostgreSQL database. In this chapter, you will create Suspect table in crime database. This table has eleven columns: suspect\_id (primary key), suspect\_name, birth\_date, case\_date, report\_date, suspect\_status, arrest\_date, mother\_name, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for this table. In chapter eight, you will create a table with the name Feature\_Extraction, which has eight columns: feature\_id (primary key), suspect\_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. The six fields (except keys) will have a VARCHAR data type (200). You will also create GUI to display, edit, insert, and delete for this table. In chapter nine, you will create two tables, Police and Investigator. The Police table has six columns: police\_id (primary key), province, city, address, telephone, and photo. The Investigator table has eight columns: investigator\_id (primary key), investigator\_name, rank, birth\_date,

gender, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for both tables. In chapter ten, you will create two tables, Victim and Case\_File. The Victim table has nine columns: victim\_id (primary key), victim\_name, crime\_type, birth\_date, crime\_date, gender, address, telephone, and photo. The Case\_File table has seven columns: case\_file\_id (primary key), suspect\_id (foreign key), police\_id (foreign key), investigator\_id (foreign key), victim\_id (foreign key), status, and description. You will create GUI to display, edit, insert, and delete for both tables as well.

*The Beginner's Guide to Learn Python GUI with PostgreSQL and SQLite* SPARTA PUBLISHING

If you're looking for the inside scoop on the latest version of FileMaker, you've come to the right place. Authors Scott Love and Steve Lane are FileMaker experts who were involved in the development of FileMaker 8, and they bring that knowledge to you in Special Edition Using FileMaker 8. Frequent tips, case studies, and thorough examples show you how to avoid mistakes and save time in developing databases with FileMaker 8. This is the comprehensive reference that every database developer needs on their shelf.

**Azure Data Engineering Cookbook**  
"O'Reilly Media, Inc."

This book is a comprehensive guide to Python as one of the fastest-growing computer languages including Web and Internet applications. This clear and concise introduction to the Python language is aimed at readers who are already familiar with programming in at least one language. This hands-on book introduces the essential topic of coding and the Python computer language to beginners and programmers of all ages.

This book explains relational theory in practice, and demonstrates through two projects how you can apply it to your use of PostgreSQL and SQL Server databases. This book covers the important requirements of teaching databases with a practical and progressive perspective. This book offers the straightforward, practical answers you need to help you do your job. This hands-on tutorial/reference/guide to PostgreSQL and SQL Server is not only perfect for students and beginners, but it also works for experienced developers who aren't getting the most from both databases. In designing a GUI and as an IDE, you will make use Qt Designer. In the first chapter, you will learn to use several widgets in PyQt5: Display a welcome message; Use the Radio Button widget; Grouping radio buttons; Displays options in the form of a check box; and Display two groups of check boxes. In chapter two, you will learn to use the following topics: Using Signal / Slot Editor; Copy and place text from one Line Edit widget to another; Convert data types and make a simple calculator; Use the Spin Box widget; Use scrollbars and sliders; Using the Widget List; Select a number of list items from one Widget List and display them on another Widget List widget; Add items to the Widget List; Perform operations on the Widget List; Use the Combo Box widget; Displays data selected by the user from the Calendar Widget; Creating a hotel reservation application; and Display tabular data using Table Widgets. In chapter three, you will learn: How to create the initial three tables project in the School database: Teacher, Class, and Subject tables; How to create database configuration files; How to create a Python GUI for inserting and editing tables; How to create a Python GUI to



join and query the three tables. In chapter four, you will learn how to: Create a main form to connect all forms; Create a project will add three more tables to the school database: Student, Parent, and Tuition tables; Create a Python GUI for inserting and editing tables; Create a Python GUI to join and query over the three tables. In chapter five, you will join the six classes, Teacher, TClass, Subject, Student, Parent, and Tuition and make queries over those tables. In chapter six, you will get introduction of postgresql. And then, you will learn querying data from the postgresql using Python including establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a table using Python, updating data in postgresql database using Python, calling postgresql stored function using Python, deleting data from a postgresql table using Python, and postgresql Python transaction. In chapter seven, you will create dan configure PotgreSQL database. In this chapter, you will create Suspect table in crime database. This table has eleven columns: suspect\_id (primary key), suspect\_name, birth\_date, case\_date, report\_date, suspect\_status, arrest\_date, mother\_name, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for this table. In chapter eight, you will create a table with the name Feature\_Extraction, which has eight columns: feature\_id (primary key), suspect\_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. The six fields (except keys) will have a VARCHAR data type

(200). You will also create GUI to display, edit, insert, and delete for this table. In chapter nine, you will create two tables, Police and Investigator. The Police table has six columns: police\_id (primary key), province, city, address, telephone, and photo. The Investigator table has eight columns: investigator\_id (primary key), investigator\_name, rank, birth\_date, gender, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for both tables. In chapter ten, you will create two tables, Victim and Case\_File. The Victim table has nine columns: victim\_id (primary key), victim\_name, crime\_type, birth\_date, crime\_date, gender, address, telephone, and photo. The Case\_File table has seven columns: case\_file\_id (primary key), suspect\_id (foreign key), police\_id (foreign key), investigator\_id (foreign key), victim\_id (foreign key), status, and description. You will create GUI to display, edit, insert, and delete for both tables as well.

[Python Programming for Raspberry Pi, Sams Teach Yourself in 24 Hours](#)  
Microsoft Press

Enhance your Kotlin programming skills by building 3 real-world applications Key Features Build three full-fledged, engaging applications from scratch and learn to deploy them Enhance your app development and programming activities with Kotlin's powerful and intuitive tools and utilities. Experience the gentle learning curve, expressiveness, and intuitiveness of Kotlin, as you develop your own applications Book Description Kotlin greatly reduces the verbosity of source code. With Google having announced their support for Kotlin as a first-class language for writing Android apps, now's the time learn how to create apps from scratch with Kotlin Kotlin Programming By Example takes you

through the building blocks of Kotlin, such as functions and classes. You'll explore various features of Kotlin by building three applications of varying complexity. For a quick start to Android development, we look at building a classic game, Tetris, and elaborate on object-oriented programming in Kotlin. Our next application will be a messenger app, a level up in terms of complexity. Before moving onto the third app, we take a look at data persistent methods, helping us learn about the storage and retrieval of useful applications. Our final app is a place reviewer: a web application that will make use of the Google Maps API and Place Picker. By the end of this book, you will have gained experience of creating and deploying Android applications using Kotlin. What you will learn

Learn the building blocks of the Kotlin programming language  
Develop powerful RESTful microservices for Android applications  
Create reactive Android applications efficiently  
Implement an MVC architecture pattern and dependency management using Kotlin  
Centralize, transform, and stash data with Logstash  
Secure applications using Spring Security  
Deploy Kotlin microservices to AWS and Android applications to the Play Store

Who this book is for  
This book is for those who are new to Kotlin or are familiar with the basics, having dabbled with Java until now. Basic programming knowledge is mandatory.

*Learn PostgreSQL 12* Springer Science & Business Media

Get a 65% discount starting today until 31 December 2020. Only for the 100 buyers. Use this code DNSPSSKULJNSP to redeem. Take advantage of this limited opportunity. This book learns about developing web services based on REST

architecture using Deno. Deno is the latest server runtime environment for typescript and javascript in addition to node.js which is well known to date. Yes, deno was created by Ryan Dahl who created node.js itself, will deno be the next node.js successor? Of course there are reasons behind developing a new runtime for executing typescript and javascript. Architecturally, for deno runtime javascript it still uses Google Engine V8 just like the previous node.js, but this time the deno was built using Rust and TypeScript languages, while node.js was built with C++ and JavaScript. For asynchronous runtime and event driven deno use the open source library, Tokio. Deno support typescript built-in or out of the box in the sense can be used directly without having to first configure settings, unlike node.js. The use of javascript is also supported in addition to typescript. Deno is more secure than node.js, because by default deno cannot access files, environment access, network, without explicit declaration. What is discussed in this book? Here are the points: -

- Introduction and installation of deno along with visual studio code as a code editor
- Use standard modules for http servers
- Use of third party modules such as oak to handle requests, responses, and routing
- Creating a controller and routing for CRUD functionality for the postgresql database
- Using Denon to automate the compilation and deno project running
- Implementation of middleware for authentication
- Implement bcrypt module for password hashing
- Implementation of authentication using JWT
- Implementation of https server
- Refactoring module
- Repository pattern
- Access user defined functions and stored procedures in postgresql

Bundling project - The use of PM2 as monitoring tools - The use of denoDB ORM Hopefully this book can be another alternative as a source of learning exercises, tutorials, or references for those who want to learn Deno programming.

PostgreSQL Packt Publishing Ltd  
Leverage the power of PostgreSQL 10 to build powerful database and data warehousing applications. About This Book Be introduced to the concept of relational databases and PostgreSQL, one of the fastest growing open source databases in the world Learn client-side and server-side programming in PostgreSQL, and how to administer PostgreSQL databases Discover tips on implementing efficient database solutions with PostgreSQL 10 Who This Book Is For If you're interested in learning more about PostgreSQL - one of the most popular relational databases in the world, then this book is for you. Those looking to build solid database or data warehousing applications with PostgreSQL 10 will also find this book a useful resource. No prior knowledge of database programming or administration is required to get started with this book. What You Will Learn Understand the fundamentals of relational databases, relational algebra, and data modeling Install a PostgreSQL cluster, create a database, and implement your data model Create tables and views, define indexes, and implement triggers, stored procedures, and other schema objects Use the Structured Query Language (SQL) to manipulate data in the database Implement business logic on the server side with triggers and stored procedures using PL/pgSQL Make use of advanced data types supported by PostgreSQL 10: Arrays, hstore, JSONB, and others Develop OLAP database

solutions using the most recent features of PostgreSQL 10 Connect your Python applications to a PostgreSQL database and work with the data efficiently Test your database code, find bottlenecks, improve performance, and enhance the reliability of the database applications In Detail PostgreSQL is one of the most popular open source databases in the world, and supports the most advanced features included in SQL standards and beyond. This book will familiarize you with the latest new features released in PostgreSQL 10, and get you up and running with building efficient PostgreSQL database solutions from scratch. We'll start with the concepts of relational databases and their core principles. Then you'll get a thorough introduction to PostgreSQL and the new features introduced in PostgreSQL 10. We'll cover the Data Definition Language (DDL) with an emphasis on PostgreSQL, and the common DDL commands supported by ANSI SQL. You'll learn to create tables, define integrity constraints, build indexes, and set up views and other schema objects. Moving on, you'll get to know the concepts of Data Manipulation Language (DML) and PostgreSQL server-side programming capabilities using PL/pgSQL. This will give you a very robust background to develop, tune, test, and troubleshoot your database application. We'll also explore the NoSQL capabilities of PostgreSQL and connect to your PostgreSQL database to manipulate data objects. By the end of this book, you'll have a thorough understanding of the basics of PostgreSQL 10 and will have the necessary skills to build efficient database solutions. Style and approach This book is a comprehensive beginner level tutorial on PostgreSQL and introduces the features of the newest

version 10, along with explanation of concepts in a very easy to understand manner. Practical tips and examples are provided at every step to ensure you are able to grasp each topic as quickly as possible.

[PostgreSQL 8.4 Official Documentation - Volume II. Server Administration](#) SPARTA PUBLISHING

Essential SQLAlchemy introduces a high-level open-source code library that makes it easier for Python programmers to access relational databases such as Oracle, DB2, MySQL, PostgreSQL, and SQLite. SQLAlchemy has become increasingly popular since its release, but it still lacks good offline documentation. This practical book fills the gap, and because a developer wrote it, you get an objective look at SQLAlchemy's tools rather than an advocate's description of all the "cool" features. SQLAlchemy includes both a database server-independent SQL expression language and an object-relational mapper (ORM) that lets you map "plain old Python objects" (POPOs) to database tables without substantially changing your existing Python code. Essential SQLAlchemy demonstrates how to use the library to create a simple database application, walks you through simple queries, and explains how to use SQLAlchemy to connect to multiple databases simultaneously with the same Metadata. You also learn how to: Create custom types to be used in your schema, and when it's useful to use custom rather than built-in types Run queries, updates, and deletes with SQLAlchemy's SQL expression language Build an object mapper with SQLAlchemy, and understand the differences between this and active record patterns used in other ORMs Create objects, save them to a session, and flush them to the database

Use SQLAlchemy to model object oriented inheritance Provide a declarative, active record pattern for use with SQLAlchemy using the Elixir extension Use the SQLSoup extension to provide an automatic metadata and object model based on database reflection In addition, you'll learn how and when to use other extensions to SQLAlchemy, including AssociationProxy, OrderingList, and more. Essential SQLAlchemy is the much-needed guide for every Python developer using this code library. Instead of a feature-by-feature documentation, this book takes an "essentials" approach that gives you exactly what you need to become productive with SQLAlchemy right away. *Cloud Native Spring in Action* SPARTA PUBLISHING

Get to grips with building reliable, scalable, and maintainable database solutions for enterprises and production databases Key FeaturesImplement PostgreSQL 13 features to perform end-to-end modern database managementDesign, manage, and build enterprise database solutions using a unique recipe-based approachSolve common and not-so-common challenges faced while working to achieve optimal database performanceBook Description PostgreSQL has become the most advanced open source database on the market. This book follows a step-by-step approach, guiding you effectively in deploying PostgreSQL in production environments. The book starts with an introduction to PostgreSQL and its architecture. You'll cover common and not-so-common challenges faced while designing and managing the database. Next, the book focuses on backup and recovery strategies to ensure your database is steady and achieves optimal performance. Throughout the book,

you'll address key challenges such as maintaining reliability, data integrity, a fault-tolerant environment, a robust feature set, extensibility, consistency, and authentication. Moving ahead, you'll learn how to manage a PostgreSQL cluster and explore replication features for high availability. Later chapters will assist you in building a secure PostgreSQL server, along with covering recipes for encrypting data in motion and data at rest. Finally, you'll not only discover how to tune your database for optimal performance but also understand ways to monitor and manage maintenance activities, before learning how to perform PostgreSQL upgrades during downtime. By the end of this book, you'll be well-versed with the essential PostgreSQL 13 features to build enterprise relational databases. What you will learn

Understand logical and physical backups in PostgreSQL

Demonstrate the different types of replication methods possible with PostgreSQL today

Set up a high availability cluster that provides seamless automatic failover for applications

Secure a PostgreSQL encryption through authentication, authorization, and auditing

Analyze the live and historic activity of a PostgreSQL server

Understand how to monitor critical services in PostgreSQL 13

Manage maintenance activities and performance tuning of a PostgreSQL cluster

Who this book is for

This PostgreSQL book is for database architects, database developers and administrators, or anyone who wants to become well-versed with PostgreSQL 13 features to plan, manage, and design efficient database solutions. Prior experience with the PostgreSQL database and SQL language is expected.

*Coding For Programmers Using Python:*

*The Step-by-Step Guide to Learn PyQt and Database Applications* Sams Publishing

Thinking of migrating to PostgreSQL?

This updated guide helps you quickly understand and use the 9.3 release of this open source database system. You'll not only learn about its unique enterprise-class features, but also discover that PostgreSQL is more than just a database system—it's also an impressive application platform. Using numerous examples, this book shows you how to achieve tasks that are difficult or impossible in other databases. The second edition covers LATERAL queries, augmented JSON support, materialized views, and other key topics. If you're an existing PostgreSQL user, you'll pick up gems you may have missed along the way. Learn basic administration tasks, such as role management, database creation, backup, and restore

Apply the `psql` command-line utility and the `pgAdmin` graphical administration tool

Explore PostgreSQL tables, constraints, and indexes

Learn powerful SQL constructs not generally found in other databases

Use several different languages to write database functions

Tune your queries to run as fast as your hardware will allow

Query external and variegated data sources with Foreign Data Wrappers

Learn how to replicate data, using built-in replication features

### **Python and PostgreSQL**

**Development** Packt Publishing Ltd

It is a highly stable database management system, backed by more than 20 years of community development which has contributed to its high levels of resilience, integrity, and correctness. PostgreSQL is used as the primary data store or data warehouse for many web, mobile, geospatial, and

analytics applications.

## **BUILDING TWO DESKTOP APPLICATIONS USING PYTHON GUI AND POSTGRESQL**

Packt Publishing Ltd  
In this book, you will create two desktop applications using Python GUI and PostgreSQL. This book is a Python/PostgreSQL version of the Python/MySQL book which was written by the author. What underlies the writing of this book is the growing popularity of the PostgreSQL database server lately and more and more programmers migrating from MySQL to PostgreSQL. In this book, you will learn to build a school database project, step by step. A number of widgets from PyQt will be used for the user interface. In the first and second chapter, you will get introduction of postgresql. And then, you will learn querying data from the postgresql using Python including establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a table using Python, updating data in postgresql database using Python, calling postgresql stored function using Python, deleting data from a postgresql table using Python, and postgresql Python transaction. In the fourth chapter, you will study: Creating the initial three table in the School database project: Teacher table, Class table, and Subject table; Creating database configuration files; Creating a Python GUI for viewing and navigating the contents of each table. Creating a Python GUI for inserting and editing tables; and Creating a Python GUI to merge and query the three tables. In chapter five, you will learn: Creating the main form to connect all forms; Creating

a project that will add three more tables to the school database: the Student table, the Parent table, and the Tuition table; Creating a Python GUI to view and navigate the contents of each table; Creating a Python GUI for editing, inserting, and deleting records in each table; Create a Python GUI to merge and query the three tables and all six tables. In chapter six, you will create and configure PostgreSQL database. In this chapter, you will create Suspect table in crime database. This table has eleven columns: suspect\_id (primary key), suspect\_name, birth\_date, case\_date, report\_date, suspect\_status, arrest\_date, mother\_name, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for this table. In chapter seven, you will create a table with the name Feature\_Extraction, which has eight columns: feature\_id (primary key), suspect\_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. The six fields (except keys) will have a VARCHAR data type (200). You will also create GUI to display, edit, insert, and delete for this table. In chapter eight, you will create two tables, Police and Investigator. The Police table has six columns: police\_id (primary key), province, city, address, telephone, and photo. The Investigator table has eight columns: investigator\_id (primary key), investigator\_name, rank, birth\_date, gender, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for both tables. In chapter nine, you will create two tables, Victim and Case\_File. The Victim table has nine columns: victim\_id (primary key), victim\_name, crime\_type, birth\_date, crime\_date, gender, address, telephone, and photo. The Case\_File table has seven columns: case\_file\_id

(primary key), suspect\_id (foreign key), police\_id (foreign key), investigator\_id (foreign key), victim\_id (foreign key), status, and description. You will create GUI to display, edit, insert, and delete for both tables as well.

Beginning PHP and PostgreSQL E-Commerce Packt Publishing Ltd

Welcome to the "PostgreSQL 8.4 Official Documentation - Volume II. Server Administration"! After many years of development, PostgreSQL has become feature-complete in many areas. This release shows a targeted approach to adding features (e.g., authentication, monitoring, space reuse), and adds capabilities defined in the later SQL standards.

*Kotlin Programming By Example* SPARTA PUBLISHING

Build and deliver production-grade cloud-native apps with Spring framework and Kubernetes. In *Cloud Native Spring in Action* you'll learn: Cloud native best practices and design patterns Build and test cloud native apps with Spring Boot and Spring Cloud Handle security, resilience, and scalability in imperative and reactive applications Configure, deploy, and observe applications on Kubernetes Continuous delivery and GitOps to streamline your software lifecycle *Cloud Native Spring in Action* is a practical guide to building applications that are designed for cloud environments. You'll learn effective Spring and Kubernetes cloud development techniques that you can immediately apply to enterprise-grade applications. Follow a detailed and complete cloud native system from first concept right through to production and deployment, learning best practices, design patterns, and little-known tips and tricks for pain-free cloud native development. Including coverage of

security, continuous delivery, and configuration, this hands-on guide is the perfect primer for navigating the increasingly complex cloud landscape. About the technology Do you want to learn how to build scalable, resilient, and observable Spring applications that take full advantage of the cloud computing model? If so, *Cloud Native Spring in Action* is the book for you! It will teach you the essential techniques and practices you need to build efficient Spring Boot applications ready for production in the cloud. About the book In *Cloud Native Spring in Action*, you'll learn how to containerize your Spring Boot applications with Cloud Native Buildpacks and deploy them on Kubernetes. This practical guide delivers unique insights into hosting microservices, serverless applications, and other modern architectures on cloud platforms. You'll learn how to use Spring-based methodologies, practices, and patterns that you won't find anywhere else. What's inside Implement cloud native patterns with Spring Handle security, resilience, and scalability Build and test imperative and reactive applications Configuration and observability on Kubernetes Adopt continuous delivery and GitOps About the reader For intermediate Java developers. About the author Thomas Vitale is a software engineer, open source contributor, and international conference speaker. Table of Contents PART 1 CLOUD NATIVE FUNDAMENTALS 1 Introduction to cloud native 2 Cloud native patterns and technologies PART 2 CLOUD NATIVE DEVELOPMENT 3 Getting started with cloud native development 4 Externalized configuration management 5 Persisting and managing data in the cloud 6 Containerizing Spring Boot 7 Kubernetes fundamentals for Spring

Boot PART 3 CLOUD NATIVE  
 DISTRIBUTED SYSTEMS 8 Reactive  
 Spring: Resilience and scalability 9 API  
 gateway and circuit breakers 10 Event-  
 driven applications and functions 11  
 Security: Authentication and SPA 12  
 Security: Authorization and auditing  
*Learn JDBC The Hard Way: A Hands-On  
 Guide to PostgreSQL and SQL Server  
 Driven Programming* SPARTA  
 PUBLISHING

What is this book about? With the  
 release of PHP 5 and the Zend Engine 2,  
 PHP finally graduates from its earliest  
 days as a lightweight scripting syntax to  
 an powerful object oriented  
 programming language that can hold its  
 own against the Java and .NET  
 architectures that currently dominate  
 corporate software development. This  
 book has a pragmatic focus on how to  
 use PHP in the larger scheme of  
 enterprise-class software development.  
 What does this book cover? Unlike Java  
 or .NET, there is little discussion of the  
 application of design patterns,  
 component architectures, and best-  
 practices to the development of  
 applications using PHP. Software written  
 in the absence of this sort of higher-  
 order architecture will never be able to  
 match the robust frameworks that Java  
 and .NET ship with out of the box. This  
 book addresses this issue by covering  
 the following material: Part 1 discusses  
 the OO concepts that were initially  
 explored in Beginning PHP 5 and a  
 demonstration of how to implement  
 them in PHP 5. This section also covers  
 UML modeling and provides a brief  
 introduction to project management  
 techniques that are covered in more  
 depth in Part 4. Parts 2 and 3 present  
 objects and object hierarchies that, when  
 completed, comprise a robust toolkit

that developers will be able to reuse on  
 future projects. These chapters are  
 designed to arm the professional PHP  
 developer with the sort of constructs  
 that are available out of the box with  
 platforms such as Java and .NET — from  
 simple utility classes like Collection and  
 Iterator, to more complex constructs like  
 Model/View/Controller architectures and  
 state machines. Part 4 shows how to use  
 the toolkit from Parts 2 and 3 to create  
 real-world applications. We look at the  
 development of a robust contact  
 management system that will leverage  
 the componentry and concepts already  
 discussed and introduce project  
 management and software architecture  
 concepts that enable developers to  
 accurately identify business  
 requirements, design scalable,  
 extensible platforms, and handle change  
 management effectively. It covers the  
 waterfall and spiral project management  
 paradigms and include a discussion on  
 eXtreme Programming and other  
 approaches to software development.  
 The Appendices include an extended  
 discussion on the effective use of CVS,  
 introduce the Zend Studio IDE and  
 related tools, and discuss performance  
 tuning and scalability.

[PostgreSQL Server Programming -  
 Second Edition](#) SPARTA PUBLISHING

This book helps you to get started with  
 Python and PostgreSQL development.  
 Some simple projects are provided to  
 accelerate your learning to access  
 PostgreSQL server using Python. The  
 following is a list of highlight topics in  
 this book \* Setting up Development  
 Environment \* Getting Started - Python  
 and PostgreSQL \* CRUD Operations \*  
 Working with Image and Blob Data \*  
 Transaction \* Stored Procedures and  
 Functions