

Database Programming With C

Oracle Database Programming with Visual Basic.NET
Discover a detailed treatment of the practical considerations and applications of Oracle database programming with Visual Basic 2019 Oracle Database Programming with Visual Basic.NET: Concepts, Designs, and Implementations delivers a comprehensive exploration of the foundations of Oracle database programming using Visual Basic.NET. Using Visual Basic.NET 2019, Visual Studio.NET 2019, and Oracle 18c XE, the book introduces the Oracle database development system, Oracle SQL Developer and

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Modeler, and teaches readers how to implement a sample database solution. The distinguished author also demonstrates the use of dotConnect for Oracle to show readers how to create an effective connection to an Oracle 18c XE database. The current versions of the .NET framework, ASP.NET, and ASP.NET 4.7 are also explored and used to offer readers the most up to date web database programming techniques available today. The book provides practical example projects and detailed, line-by-line descriptions throughout to assist readers in the development of their database programming skill. Students will also benefit from the inclusion of: A thorough introduction to databases,

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including definitions, examples, descriptions of keys and relationships, and some database components in popular databases, like Access, SQL, and Oracle An exploration of ADO.NET, including its architecture and components, like the DataReader class, DataSet component, DataTable component, and the command and parameter classes A discussion of Language Integrated Query (LINQ), including its architecture and components, its relationship to objects, DataSet, Oracle, and Entities An explanation of how to access data in ASP.NET and ASP.NET Web Services with multiple real project examples. Perfect for college and university students taking courses related to database

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programming and applications, Oracle Database Programming with Visual Basic.NET will also earn a place in the libraries of programmers and software engineers seeking a comprehensive reference for database coding in Visual Basic.NET.

This book explains relational theory in practice, and demonstrates through two projects how you can apply it to your use of MariaDB 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 MariaDB and SQL Server is

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not only perfect for students and beginners, but it also works for experienced developers who aren't getting the most from MariaDB and SQL Server. As you would expect, this book shows how to build from scratch two different databases: MariaDB 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 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

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and verify them. In chapter two, you will create a PostgreSQL database, named Bank, and its tables. In chapter three, 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 four, 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,

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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 five, 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 six, you will be taught how to create a SQL Server database, named Crime, and its tables. In chapter seven, you will be taught how to extract image features, utilizing BufferedImage class, in Java GUI. In chapter eight, you will be taught to create Java GUI to view, edit,

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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 nine, 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 ten, 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

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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 eleven, 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:

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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/MariaDB/SQL Server programmer.

Java Sale price. You will save 66% with this offer. Please hurry up! The Ultimate Guide to Learn Java and C++ (Java for beginners, Java for dummies, how to program, C programming, c plus plus, programming for beginners) Java The Ultimate Guide to Learn Java

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Programming Fast (Java for Beginners, Java for dummies, how to program, java apps, java programming) Java is parallel to the C# programming language. However, Java can be considered as an object-oriented language and it also features enormous learning curves and potentials for beginners. The aim of this book is to help complete beginners in getting comfortable with the Java programming language. The Complete Guide on Java - 2015 Edition will discuss the vital topics of the Java language. These topics will serve as the stepping stone of any beginners which will pave their way into the wide realm of Java. As per the statement of the company behind the programming

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language, there are more than nine million Java developers around the globe as of the writing of this book. This book will cover the following topics:

- Programming Structure of the Java Language
- Introduction to Object-Oriented Programming
- Key Concepts of Object-Oriented Programming
- Declaration and Management of Variables
- Data Types
- Integrating Other Classes
- Access Modifiers
- Closer Look on Objects and Classes

C++ The Ultimate Guide to Learn C Programming (c plus plus, C++ for beginners, programming computer, how to program) The evolution that we have seen in technology in the last 10 years, has seen nearly everything that we interact with on a daily

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basis be controlled by a computer. As we know, all computers operate using a programming language most commonly referred to as C++. To many, C++ looks like a type of language that they will never be able to understand. However, learning C++ is much easier than you would think. Every process, large or small, are a series of smaller steps which achieve the end result. When you break down the computer programming language into smaller steps, you will quickly be able to come to terms with what everything means in no time at all. Through this book, you will learn the basics that every beginner wanting to learn about C++ should know. Here is a preview of what you'll learn: How to

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make our very first C++ program in less than 10 minutes. What software can we use to write C++ code. How to expand our program using variables. Different types of operators. How to make programs that loop. Solving simple problems using conditions and pointers. Download your copy of "Java" by scrolling up and clicking "Buy Now With 1-Click" button. Tags: Java, Java Programming, Learn Java, java for dummies, java app, computer programming, computer tricks, step by step, programming for beginners, data analysis, beginner's guide, crash course, database programming, java for dummies, coding, java basics, basic programming, crash course, programming principles, programming

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computer, ultimate guide, programming for beginners, software development, programming software, software programs, how to program, computer language, computer basics, computing essentials, computer guide, computers books, how to program, C Programming, C++programming, C++ programming language, HTML, Javascript, Programming, Developers, Coding, CSS, Java, PHP, C++, HTML, Swift, C++, C Programming, Programming for beginners, c plus plus, PHP, Java, C++ Programming for Beginners, c primer plus, C Programming for Beginners, C++, C Programming, Programming for beginners, c plus plus, PHP, Java, C++ Programming for Beginners , C Programming,

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C++programming, C++ programming language. You will learn Python/MySQL fast, easy and fun. This book provides you with a complete MySQL guidance presented in an easy-to-follow manner. This Python MySQL book shows you how to use MySQL connector/Python to access MySQL databases. You will learn how to connect to MySQL database, and perform common database operations such as SELECT, INSERT, UPDATE and DELETE. In addition, we will show you some useful tips such as how to call MySQL stored procedures from Python, and how to work with MySQL BLOB data. Each chapter has practical examples with SQL script and screenshots available. If you go through

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the entire chapters, you will know how to manage MySQL databases and manipulate data using various techniques such as MySQL queries, MySQL stored procedures, database views, triggers. In the first part of the book, you will learn Basic MySQL statements including how to implement querying data, sorting data, filtering data, joining tables, grouping data, subquerying data, and setting operators. Aside from learning basic SQL statements, you will also learn step by step how to develop stored procedures in MySQL. First, we introduce you to the stored procedure concept and discuss when you should use it. Then, we show you how to use the basic elements of the procedure code such as

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create procedure statement, if-else, case, loop, stored procedure ' s parameters. In the next chapter, we will discuss the database views, how they are implemented in MySQL, and how to use them more effectively. After that, you will learn how to work with the MySQL triggers. By definition, a trigger or database trigger is a stored program executed automatically to respond to a specific event e.g., insert, update or delete occurred in a table. The database trigger is powerful tool for protecting the integrity of the data in your MySQL databases. In addition, it is useful to automate some database operations such as logging, auditing, etc. Then, you will learn about MySQL index including creating

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indexes, removing indexes, listing all indexes of a table and other important features of indexes in MySQL.

MySQL uses indexes to quickly find rows with specific column values. Without an index, MySQL must scan the whole table to locate the relevant rows. The larger table, the slower it searches. After that, you will find a lot of useful MySQL administration techniques including MySQL server startup and shutdown, MySQL server security, MySQL database maintenance, and backup. The last chapter gives you the most commonly used MySQL functions including aggregate functions, string functions, date time functions, control flow functions, etc.

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Programming with Objects

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

A Complete Guide to Programming in C++

Database Programming Languages

A Pragmatic Approach to Database Programming with
JDBC and MySQL

Research Issues in Structured and Semistructured
Database Programming

***C++ is a general purpose programming
language that, in addition to systems***

applications, is extensively used for scientific computation, financial applications, embedded systems, realtime control, and other applications. Emphasizing the commonality between C++ and Java as object oriented languages, this text prepares the reader to program with objects.

Non-VB programmers are shown how they can have the same database ease that Visual Basic programmers have: step-by-step coverage of data access in Visual Studio .NET, with example code in C#.

Python has various database drivers for PostgreSQL. Currently, the psycopg is the most popular PostgreSQL database adapter for the Python language. The psycopg fully implements the Python DB-API 2.0 specification. The current version of the psycopg is 2 or psycopg2. The psycopg2 database adapter implemented in C as a libpq wrapper resulting in both fast and secure. The psycopg2 provides many useful features such as client-side and server-side cursors, asynchronous notification and

communication, COPY command support, etc. 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 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 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.

In this book, you will create two MariaDB and

PostgreSQL driven projects using PyQt. The step-by-step guide in this book is expected to help the reader's confidence to become a programmer who can solve database programming problems. A progressive project is provided to demonstrate how to apply the concepts of MariaDB and PostgreSQL using Python. In second chapter, you will learn PyQt that consists of a number of Python bindings for cross-platform applications that combine all the strengths of Qt and Python. By using PyQt, you can include all Qt libraries in

Python code, so you can write GUI applications in Python. In other words, you can use PyQt to access all the features provided by Qt through Python code. Because PyQt depends on the Qt libraries at run time, you need to install PyQt. In third chapter, 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 fourth chapter, 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 this chapter, you will join the six classes, Teacher, TClass, Subject, Student, Parent, and Tuition and make queries over those tables. In chapter five, 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 six, 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 seven, 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 eight, 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.

A PROGRESSIVE TUTORIAL TO DATABASE PROGRAMMING WITH PYTHON GUI AND POSTGRESQL

A Guide to the S Language

Mastering?C#?Database Programming

A Step By Step To Database Programming Using Python GUI and MariaDB

A PRACTICAL GUIDE TO Database Programming with PHP/MySQL

Get started with writing simple programs in C while learning the skills

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that will help you work with practically any programming language
Key Features
Learn essential C concepts such as variables, data structures, functions, loops, and pointers
Get to grips with the core programming aspects that form the base of many modern programming languages
Explore the expressiveness and versatility of the C language with the help of sample programs
Book Description *C is a powerful general-purpose programming*

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language that is excellent for beginners to learn. This book will introduce you to computer programming and software development using C. If you're an experienced developer, this book will help you to become familiar with the C programming language. This C programming book takes you through basic programming concepts and shows you how to implement them in C. Throughout the book, you'll create and run programs that make use of one or

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more C concepts, such as program structure with functions, data types, and conditional statements. You'll also see how to use looping and iteration, arrays, pointers, and strings. As you make progress, you'll cover code documentation, testing and validation methods, basic input/output, and how to write complete programs in C. By the end of the book, you'll have developed basic programming skills in C, that you can apply to other programming

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languages and will develop a solid foundation for you to advance as a programmer. What you will learnUnderstand fundamental programming concepts and implement them in CWrite working programs with an emphasis on code indentation and readabilityBreak existing programs intentionally and learn how to debug codeAdopt good coding practices and develop a clean coding styleExplore general programming concepts that are applicable to more

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advanced projects Discover how you can use building blocks to make more complex and interesting programs Use C Standard Library functions and understand why doing this is desirable Who this book is for This book is written for two very diverse audiences. If you're an absolute beginner who only has basic familiarity with operating a computer, this book will help you learn the most fundamental concepts and practices you

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need to know to become a successful C programmer. If you're an experienced programmer, you'll find the full range of C syntax as well as common C idioms. You can skim through the explanations and focus primarily on the source code provided.

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

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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

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*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*

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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

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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

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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),

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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,

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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 was designed to run on UNIX-like platforms. However, PostgreSQL was

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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

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PostgreSQL, the total cost of ownership is low in comparison with other database management systems. In Chapter 2, you will learn: Connecting to a PostgreSQL database – shows you how to setup a simple PHP application structure and connect to a PostgreSQL database; Creating new PostgreSQL database tables – walks you through the steps of creating database tables in PostgreSQL using PHP; Inserting data into PostgreSQL tables – guides you how

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to use insert data into a table using PHP PDO; Updating data in the table – provides you with the steps of updating data in the database tables; Querying data from a table – shows you various ways to query data in the PostgreSQL database from PHP; Performing transactions – explains the transaction concept and shows you how to perform transactions in PHP; Working with the binary large objects (BLOB) – shows you how to insert, select, and delete the

large objects in the PostgreSQL using PHP; Calling PostgreSQL stored procedures – explains you the steps of calling PostgreSQL stored procedures from PHP; Deleting data in a PostgreSQL table using PHP PDO – teaches you how to delete data from the PostgreSQL table in the PHP application using PDO. 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,

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*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.*

*This book is designed to introduce
programmers to programming and*

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computational thinking through the lens of exploring database. This book offers Python programmers one place to look when they need help guiding 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

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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 MariaDB 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 MariaDB 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;

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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

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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

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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

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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.

*Proceedings of the Fourth International
Workshop on Database Programming
Languages – Object Models and
Languages, Manhattan, New York City,
USA, 30 August–1 September 1993*

C++

*4-8 June 1989, Salishan Lodge, Gleneden
Beach, Oregon*

Programming with Data

*A Comparative Presentation of Object-
Oriented Programming With C++ and Java*

The Best Tutorial to Learn Database Programming with Java GUI, MariaDB, and SQL Server

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

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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

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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

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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

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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,

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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

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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,

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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

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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.

You will learn PHP/MySQL fast, easy and fun. This book provides you with a complete MySQL guidance presented in an easy-to-follow manner. Each chapter has practical examples with SQL script and screenshots available. If you go through the entire chapters, you will know how to manage MySQL databases and

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manipulate data using various techniques such as MySQL queries, MySQL stored procedures, database views, triggers. In the first part of the book, you will learn basic MySQL statements including how to implement querying data, sorting data, filtering data, joining tables, grouping data, subquerying data, and setting operators. Aside from learning basic SQL statements, you will also learn step by step how to develop stored procedures in MySQL. First, we introduce you to the stored procedure concept and discuss when you should use it. Then, we show you how to use the basic elements of the procedure

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code such as create procedure statement, if-else, case, loop, stored procedure's parameters. In the next chapter, we will discuss the database views, how they are implemented in MySQL, and how to use them more effectively. After that, you will learn how to work with the MySQL triggers. By definition, a trigger or database trigger is a stored program executed automatically to respond to a specific event e.g., insert, update or delete occurred in a table. The database trigger is powerful tool for protecting the integrity of the data in your MySQL databases. In addition, it is useful to

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automate some database operations such as logging, auditing, etc. Then, you will learn about MySQL index including creating indexes, removing indexes, listing all indexes of a table and other important features of indexes in MySQL. MySQL uses indexes to quickly find rows with specific column values. Without an index, MySQL must scan the whole table to locate the relevant rows. The larger table, the slower it searches. After that, you will find a lot of useful MySQL administration techniques including MySQL server startup and shutdown, MySQL server security, MySQL database maintenance, and backup. The last

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chapter gives you the most commonly used MySQL functions including aggregate functions, string functions, date time functions, control flow functions, etc. The Fourth International Workshop on Database Programming Languages - Object Models and Languages (DBPL-4) took place in Manhattan, New York City, 30 August-1 September 1993. The areas of interest and the format of DBPL-4 focused on the integration of programming languages, object models, type systems and database systems. As in the previous DBPL workshops, the setting was informal, allowing the participants to

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actively discuss and argue about the ideas presented in the talks. The comments and remarks made by the participants during and after the presentations were taken into account in the preparation of the final versions of the papers. The result, we believe, is a set of excellent papers. The DBPL sequence is closely related to the sequence of International Workshops on Persistent Object Systems (POS), first started in 1985. While the DBPL workshops focus on language and model issues, the POS workshops have focused on implementation issues; thus the two sequences complement

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each other. Many researchers participate in both workshop series. The eight sessions of the technical program of DBPL-4 were as follows: 1. Bulk types and their query languages (two sessions). 2. Object models and languages. 3. Data types with order. 4. Mechanisms to support persistence, reflection, and extensibility. 5. Query optimization and integrity constraints. 6. Logic-based models. 7. Implementation and performance issues.

Practical Database Programming with Visual Basic.NET The most up-to-date Visual Basic.NET programming textbook—covering both

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fundamentals and advanced-level programming techniques—complete with examples and solutions Visual Basic.NET (VB.NET) is an object-oriented computer programming language that can be viewed as an evolution of the classic Visual Basic (VB), which is implemented on the .NET Framework. Microsoft currently supplies two major implementations of Visual Basic: Microsoft Visual Studio (which is commercial software) and Microsoft Visual Studio Express (which is free of charge). Forgoing the large amounts of programming codes found in most database programming books, Practical Database

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Programming with Visual Basic.NET shows students and professionals both how to develop professional and practical database programs in a Visual Basic.NET environment by using Visual Studio.NET Data Tools and Wizards related to ADO.NET 4.0, and how to apply codes that are auto-generated by solely using Wizards. The fully updated Second Edition: Covers both fundamentals and advanced database programming techniques Introduces three popular database systems with practical examples including MS Access, SQL Server 2008, and Oracle Features more than fifty sample projects with detailed

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illustrations and explanations to help students understand key techniques and programming technologies Includes downloadable programming codes and exercise questions This book provides undergraduate and graduate students as well as database programmers and software engineers with the necessary tools to handle the database programming issues in the Visual Studio.NET environment.

Oracle Database Programming with Visual Basic.NET

A Comparative Presentation of Object Oriented Programming with C++

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*Practical Exercises on the Computational
Subjects You Keep Avoiding (Like C)
Proceedings of the Second International
Workshop on Database Programming Languages
Java*

*The Fast Tutorial to Learn Database
Programming Using Python GUI with Access and
SQL Server*

***A Comparative Presentation of Object-Oriented
Programming with C++ and Java, a comparative
presentation of object-oriented programming with two of
the most popular programming languages of today,
teaches vital skills and techniques for the Internet age.
Based on highly successful courses taught by the***

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author, this book answers the need for a comprehensive educational program on the subject of object-oriented programming. In a clear and accessible format, the author compares and contrasts both languages, from basic language constructs to how both languages are used in application-level programming, such as graphics programming, network programming, and database programming. Learning to write a program in one language that corresponds to a given program in the other language enables students to tackle more difficult projects in either language.

VISUAL C# AND DATABASES is a step-by-step database programming tutorial that provides a detailed introduction to using Visual C# for accessing and

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maintaining databases for desktop applications. Topics covered include: database structure, database design, Visual C# project building, ADO .NET data objects (connection, data adapter, command, data table), data bound controls, proper interface design, structured query language (SQL), creating databases using Access, SQL Server and ADOX, and database reports. Actual projects developed include a books tracking system, a sales invoicing program, a home inventory system and a daily weather monitor VISUAL C# AND DATABASES is presented using a combination of over 850 pages of self-study notes and actual Visual C# examples. No previous experience working with databases is presumed. It is assumed, however, that users of the product are familiar

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with the Visual C# environment and the steps involved in building a Visual C# application. This pre-requisite training can be gained from our LEARN VISUAL C# course. VISUAL C# AND DATABASES requires the Microsoft Windows operating system. This tutorial also requires the free Community Edition or Professional Edition of Microsoft Visual Studio 2019. The Visual C# source code solutions and all needed multimedia files are included in the compressed download file available from the Publisher's website (KidwareSoftware.com) after book registration.

C++ Sale price. You will save 66% with this offer. Please hurry up! The Ultimate Guide to Learn C++ and SQL Programming Fast (C++ for beginners, c programming,

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JAVA, Coding, CSS, PHP) Sql Beginner's Guide for Coding SQL (sql, database programming, computer programming, how to program, sql for dummies) The Beginner's Guide for Coding SQL is a user-friendly eBook designed for complete beginners. You might have encountered the MySQL database after hosting your personal website or while establishing your game server. The problem is, you might not have the idea of how to configure any database that uses structured query language, or commonly known as, SQL. All topics presented in this book were discussed in non-complex standards to help non-technical readers in learning SQL. It is notetaking that SQL topics are fairly complex by nature; however, all these complexities will be removed

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in this book and all topics will be presented in the easiest way possible. In order to teach you about SQL, the first chapter will be discussing mainly on database. This will help you in familiarizing the environment where you will mostly use the structured query language. At the end of this book, you will be able to acquire sufficient knowledge in order to execute specific SQL statements. This will prepare you in learning advance database programming including, but not limited to, database creation, database query, the addition of data, and the deletion of data. This book aims to provide you with the following: Introduction to Database Close Look to Relational Models Overview of SQL Tables and Columns Basic SQL Statements Data Creation in SQL &

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***Data Types SELECT Command FROM & WHERE Clauses
C++ C++ for Beginners, C++ in 24 Hours, Learn C++ fast!
A smart way to learn C plus plus. Plain & Simple. C++ in
easy steps, C++ programming, Start coding today: The
Ultimate Beginner's Guide, Fast & Easy! Are you
interested in learning more about the vibrant, new
programming world of C++? Has your job description
changed and you're looking for a way to make yourself
relevant in the programming industry again? Then you
might want to scroll up and grab a copy of this eBook on
C++ programming for beginners. C++ is a modified
version of its simpler counterpart, C. It is an object-
oriented programming language that requires patience
and determination to learn, but this books aims to help***

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you with that. It will teach you what the programming language is and how it works, as well as how you can get started with it. So if you're ready to learn C++ today, then take a look at what's inside this eBook. You'll find the following information: Your First Program Variables Expanding Your Program Operators Conditionals Loops Arrays Functions Pointers Dynamic Memory Classes and Objects Download your copy of "Sql" by scrolling up and clicking "Buy Now With 1-Click" button. Tags: computer programming, computer tricks, step by step, programming for beginners, data analysis, beginner's guide, crash course, sql, database programming, sql for dummies, coding, sql basics, basic programming, crash course, programming principles,

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programming computer, ultimate guide, programming for beginners, software development, programming software, software programs, how to program, computer language, computer basics, computing essentials, computer guide, computers books, C Programming, C++ programming, C++ programming language, HTML, Javascript, Programming, Coding, CSS, Java, PHP, C++, Python, Sql, Swift, C++, c plus plus, c primer plus, C Programming for Beginners, C++, C++ programming language, HTML, Javascript, Developers, Coding, CSS, Java

In this book, you will learn how to build from scratch a MySQL database management system using PyQt. In designing a GUI, you will make use of the Qt Designer

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tool. Gradually and step by step, you will be taught how to use MySQL in Python. In the first three chapters, you will learn Basic MySQL statements including how to implement querying data, sorting data, filtering data, joining tables, grouping data, subquerying data, dan setting operators. Aside from learning basic SQL statements, you will also learn step by step how to develop stored procedures in MySQL. First, we introduce you to the stored procedure concept and discuss when you should use it. Then, we show you how to use the basic elements of the procedure code such as create procedure statement, if-else, case, loop, stored procedure's parameters. In the fourth chapter, you will learn: How PyQt and Qt Designer are used to create

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Python GUIs; How to create a basic Python GUI that utilizes a Line Edit and a Push Button. In the fifth 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 last chapter, 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

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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.

The Best Guide to Database Programming with Java GUI, PostgreSQL, and SQL Server

The Quick Tutorial to Learn Database Programming Using Python GUI with MariaDB and PostgreSQL

6th International Workshop, DBPL-6, Estes Park, Colorado, USA, August 18-20, 1997

7th International Workshop on Database Programming Languages, DBPL'99 Kinloch Rannoch, UK, September 1-3, 1999 Revised Papers

Sams Teach Yourself Database Programming with Visual C++ 6 in 21 Days

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Visual C++ Database Programming Tutorial

Shows readers how to use Visual C++ 6 to improve their database programming, how to add "universal data access" to their applications, and how to use the design tools of SQL Server and component technologies such as ADO. Original. (Intermediate).

This book constitutes the thoroughly refereed post-workshop proceedings of the 6th International Workshop on Database Programming Languages, DBPL-6, held in Estes Park, Colorado, USA, in August 1997. The 20 revised full papers presented have gone through two rounds of reviewing and selection. Also included are two invited talks, the transcription of a panel discussion and an introductory survey by the volume editors. The papers address all

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current aspects of database programming languages, in particular spatial databases, typing, query languages for new applications, views, expressive power, aggregate queries, cooperative work, and transactions.

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

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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

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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

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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.

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

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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

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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

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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

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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

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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

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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.

Learn C the Hard Way

Practical Database Programming with Visual Basic.NET
Concepts, Designs, and Implementations

A programmer's guide to building high-performance MySQL
database solutions

8th International Workshop, DBPL 2001, Frascati, Italy,
September 8-10, 2001. Revised Papers

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A Heuristic Database Programming with PHP and PostgreSQL

A novel approach to developing and applying databases with Visual C#.NET Practical Database Programming with Visual C#.NET clearly explains the considerations and applications in database programming with Visual C#.NET 2008 and in developing relational databases such as Microsoft Access, SQL Server, and Oracle Database. Sidestepping the traditional approach of using large blocks of code, Ying Bai utilizes both Design Tools and Wizards provided by Visual Studio.NET and real-time object methods to incorporate over sixty real sample database programming projects along with detailed illustrations and explanations to help readers understand

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the key techniques and programming technologies in database programming. This invaluable resource features: Fundamental and advanced database programming techniques for beginning and experienced students as well as programmers A real completed sample database CSE_DEPT with three versions (Microsoft Access 2007, SQL Server 2005 SP2, and Oracle Database 10g XE Release 2) used throughout the entire book Step-by-step details on designing and building a practical relational database Discussion and analysis of the new database query technique, LINQ API—which includes LINQ to Objects, LINQ to DataSet, LINQ to SQL, LINQ to Entities, and LINQ to XML—and implementation in actual projects with line-by-line

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explanation Homework and selected solutions for each chapter to strengthen and improve learning and understanding An Instructor's Manual (MS PPT), example codes and exercise questions, homework/exercise solutions, and database projects available for free download E-mail assistance from the author Readers who will benefit highly from this reference are undergraduate or graduate students majoring in computer science and engineering, graduate students in all engineering departments, and software engineers and researchers in academic and industrial fields. To obtain instructor materials please send an email to pressbooks@ieee.org Note: CD-ROM/DVD and other supplementary materials are not included as part of

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eBook file.

You will learn Java/MySQL fast, easy and fun. This book provides you with a complete MySQL guidance presented in an easy-to-follow manner. Each chapter has practical examples with SQL script and screenshots available. If you go through the entire chapters, you will know how to manage MySQL databases and manipulate data using various techniques such as MySQL queries, MySQL stored procedures, database views, triggers. In the first part of the book, you will learn Basic MySQL statements including how to implement querying data, sorting data, filtering data, joining tables, grouping data, subquerying data, and setting operators. Aside from learning basic SQL statements, you will also learn step

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by step how to develop stored procedures in MySQL. First, we introduce you to the stored procedure concept and discuss when you should use it. Then, we show you how to use the basic elements of the procedure code such as create procedure statement, if-else, case, loop, stored procedure's parameters. In the next chapter, we will discuss the database views, how they are implemented in MySQL, and how to use them more effectively. After that, you will learn how to work with the MySQL triggers. By definition, a trigger or database trigger is a stored program executed automatically to respond to a specific event e.g., insert, update or delete occurred in a table. The database trigger is powerful tool for protecting the integrity of the data in your MySQL

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databases. In addition, it is useful to automate some database operations such as logging, auditing, etc. Then, you will learn about MySQL index including creating indexes, removing indexes, listing all indexes of a table and other important features of indexes in MySQL. MySQL uses indexes to quickly find rows with specific column values. Without an index, MySQL must scan the whole table to locate the relevant rows. The larger table, the slower it searches. After that, you will find a lot of useful MySQL administration techniques including MySQL server startup and shutdown, MySQL server security, MySQL database maintenance, and backup. The last chapter gives you the most commonly used MySQL functions including aggregate functions, string

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functions, date time functions, control flow functions, etc.

This book constitutes the thoroughly refereed post-proceedings of the 7th International Workshop on Database Programming Languages, DBPL'99, held in Kinloch Rannoch, UK in September 1999. The 17 revised full papers presented together with an invited paper were carefully reviewed and revised for inclusion in the book. The book presents topical sections on querying and query optimization; languages for document models; persistence, components and workflows; typing and querying semistructured data; active and spatial databases; and unifying semistructured and traditional data models.

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A Practical Guide to Database Programming with Java GUI and PostgreSQL

A beginner's guide to learning C programming the easy and disciplined way

The Ultimate Guide to Learn C++ and SQL Programming Fast (C++ for Beginners, C Programming, Java, Coding, CSS, PHP)

Database Programming Languages (DBPL-4)

The Self-Taught Coder: The Definitive Guide to Database Programming with Python and MySQL

A beginner's guide to building high-performance PostgreSQL database solutions

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You Will Learn C! Zed Shaw has crafted the perfect course for the beginning C programmer eager to advance their skills in any language. Follow it and you will learn the many skills early and junior programmers need to succeed—just like the hundreds of thousands of programmers Zed has taught to date! You bring discipline, commitment, persistence, and experience with any programming language; the author supplies everything else. In *Learn C the Hard Way*, you'll learn C by working through 52 brilliantly crafted exercises. Watch Zed Shaw's teaching video and read the exercise. Type his code precisely. (No copying and pasting!) Fix your mistakes. Watch the

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programs run. As you do, you'll learn what good, modern C programs look like; how to think more effectively about code; and how to find and fix mistakes far more efficiently. Most importantly, you'll master rigorous defensive programming techniques, so you can use any language to create software that protects itself from malicious activity and defects. Through practical projects you'll apply what you learn to build confidence in your new skills. Shaw teaches the key skills you need to start writing excellent C software, including

Setting up a C environment
Basic syntax and idioms
Compilation, make files, and linkers
Operators, variables, and data types
Program control

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Arrays and strings Functions, pointers, and structs
Memory allocation I/O and files Libraries Data
structures, including linked lists, sort, and search
Stacks and queues Debugging, defensive coding, and
automated testing Fixing stack overflows, illegal
memory access, and more Breaking and hacking your
own C code It'll Be Hard at First. But Soon, You'll Just
Get It-And That Will Feel Great! This tutorial will
reward you for every minute you put into it. Soon,
you'll know one of the world's most powerful
programming languages. You'll be a C programmer.
Here is a thorough and authoritative guide to the
latest version of the S language and to its

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programming environment the premier software platform for computing with data. Programming with Data describes a new and greatly extended version of S and is written by the chief designer of the language. The book is a guide to the complete programming process, starting from simple interactive use and continuing through ambitious software projects. S is designed for computing with data-for any project in which organizing, visualizing, summarizing, or modeling data are central concerns. Its focus is on the needs of the programmer/user, and its goal is "to turn ideas into software, quickly and faithfully." S is a functional object-based language with a huge library

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of functions for all aspects of computing with data. Its long and enthusiastic use in statistics and applied fields has also led to many valuable libraries of user-written functions. The new version of S provides powerful class/method structure, new techniques to deal with large objects, extended interfaces to other languages and files, object-based documentation compatible with HTML, and powerful new interactive programming techniques. This version of S underlies the S-PLUS system, versions 5*0 and higher.

In this book, you will create three desktop applications using Java GUI and PostgreSQL. In this book, you will learn how to build from scratch a PostgreSQL

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database management system using Java. In designing a GUI and as an IDE, you will make use of the NetBeans tool. Gradually and step by step, you will be taught how to utilize PostgreSQL in Java. In chapter one, you will create School database and its six tables. In chapter two, you will study: Creating the initial three table projects in the school database: Teacher table, TClass table, and Subject table; Creating database configuration files; Creating a Java GUI for viewing and navigating the contents of each table; Creating a Java GUI for inserting and editing tables; and Creating a Java GUI to join and query the three tables. In chapter three, you will learn: Creating the

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main form to connect all forms; Creating a project will add three more tables to the school database: the Student table, the Parent table, and Tuition table; Creating a Java GUI to view and navigate the contents of each table; Creating a Java GUI for editing, inserting, and deleting records in each table; Creating a Java GUI to join and query the three tables and all six. In chapter four, you will study how to query the six tables. In chapter five, 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

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data, and generate and verify digital prints. In chapter six, you will create Bank database and its tables. In chapter seven, you will learn how to create and store salt passwords and verify them. 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 eight, you will create an Account table. This account table has the following ten fields:

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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 nine, you will create a Client_Data table, which has the following seven fields: client_data_id (primary key), account_id (primary_key), birth_date, address, mother_name, telephone, and photo_path. In chapter ten, you will be taught how to create Crime database and its tables. In chapter eleven, you will be taught how to extract

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image features, utilizing BufferedImage class, in Java GUI. In chapter twelve, 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 thirteen, 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 fourteen, you will add two tables:

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Police_Station and Investigator. These two tables will later be joined to Suspect table through another table, File_Case. 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 fifteen, 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

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(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.

This book covers microsoft acces and SQL Server based GUI programming using pyqt. Intentionally designed for various levels of interest and ability of learners, this book is suitable for students, engineers, and even researchers in a variety of disciplines. No

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advanced programming experience is needed, and only a few school-level programming skill are needed. 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

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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 third chapter, 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 fourth chapter, you will learn how to: Create a main form to connect all forms; Create a project will add

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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 create and configure 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,

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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 `VARBINARY(MAX)` data type. 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`,

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telephone, and photo. You will also create GUI to display, edit, insert, and delete for both tables. In the last chapter, 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.

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resource you need to thrive in this new world. Assuming no prior experience with database programming, this book teaches you every aspect of the craft, from GUI design to server development to middle-tier implementation. If you're familiar with earlier versions of ADO, you'll master the many new features of ADO.NET all the more quickly. You'll also learn the importance of XML within the new .NET paradigm. Coverage includes: Accessing a database using C# and ADO.NET Using SQL to access a database Using Visual Studio .NET to build applications Creating and modifying database tables Understanding ADO.NET classes Designing, building, and deploying Web applications that access a database Designing, building, and deploying effective Web services Using SQL Server's built-in XML capabilities

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Working with a database in a disconnected manner Using advanced transaction controls Using Transact-SQL to create stored procedures and functions in a SQL Server database In this book, you will create two desktop applications using Python GUI and MariaDB. This book is mariadb-based python programming Intentionally designed for various levels of interest and ability of learners, this book is suitable for students, engineers, and even researchers in a variety of disciplines. No advanced programming experience is needed, and only a few school-level programming skill are needed. 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

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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 third chapter, 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

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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

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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.