

Inspector: Type (product)	
Background	off
RunAction	stop
AutoClose	off
Closing	on
CloseRequest	off
Color	off
CreateIn	off
CurrentCharacter	0
CurrentPoint	[0, 0, 167]
Default	off
DirControl	on
FileName	(Users/Andrew)
Handleability	callback
HiText	on
ImageHandle	off
Interuptible	on
Interactivity	on
KeyPressIn	off
KeyPressOut	off
Render	none
Name	product
NextPlot	add
NumberFile	off
PaperOrientation	portrait
PaperPosition	[0.25, 2.5]
PaperPositionMode	manual
PaperSize	[8.5, 11]
PaperType	external
PaperUnits	inches
Pointer	arrow
PointerTypeClass	[16x16 double array] /
PointerTypeColor	[1x2 double array] /
Position	[100, 83], 28, 167, 11



product.fig

File Edit View Layout Tools Help

Select
 Push Button
 Line
 Radio Button
 Check Box
 Edit Text
 Static Text
 Popover Menu
 Label
 Toggle Button
 Table
 Axis
 Panel
 Button Group

grid
 text1
 text2
 user text
 handle

Current Point: [84, 254] Pointer: [24, 83, 67, 167]



Command Line output from handles structure
handles.output:

Matlab Guide Tutorial

**Vivian Siahaan, Rismon Hasiholan
Sianipar**



Matlab Guide Tutorial:

A Guide to MATLAB Brian R. Hunt, Ronald L. Lipsman, Jonathan M. Rosenberg, 2001-08-06 This book is a short focused introduction to MATLAB and should be useful to both beginning and experienced users *Digital Signal Processing with Matlab Examples, Volume 1* Jose Maria Giron-Sierra, 2016-11-19 This is the first volume in a trilogy on modern Signal Processing The three books provide a concise exposition of signal processing topics and a guide to support individual practical exploration based on MATLAB programs This book includes MATLAB codes to illustrate each of the main steps of the theory offering a self contained guide suitable for independent study The code is embedded in the text helping readers to put into practice the ideas and methods discussed The book is divided into three parts the first of which introduces readers to periodic and non periodic signals The second part is devoted to filtering which is an important and commonly used application The third part addresses more advanced topics including the analysis of real world non stationary signals and data e g structural fatigue earthquakes electro encephalograms birdsong etc The book s last chapter focuses on modulation an example of the intentional use of non stationary signals **Dynamical Systems with Applications Using MATLAB®** Stephen Lynch, 2025-09-09 This textbook now in its third edition provides a broad and accessible introduction to both continuous and discrete dynamical systems the theory of which is motivated by examples from a wide range of disciplines It emphasizes applications and simulation utilizing MATLAB Simulink the Image Processing Toolbox the Symbolic Math Toolbox and the Deep Learning Toolbox The text begins with a tutorial introduction to MATLAB that assumes no prior programming knowledge Discrete systems are covered in the first part after which the second part explores the study of continuous systems using delay ordinary and partial differential equations The third part considers chaos control and synchronization binary oscillator computing Simulink and the Deep Learning Toolbox A final chapter provides examination and coursework type MATLAB questions for use by instructors and students For the Third Edition all the material has been thoroughly updated in line with the most recent version of MATLAB R2025a New chapters have been added on artificial neural networks delay differential equations numerical methods for ordinary and partial differential equations and the Deep Learning Toolbox MATLAB program files Simulink model files and other materials are available to download from the author s website and through GitHub The hands on approach of Dynamical Systems with Applications using MATLAB has minimal prerequisites only requiring familiarity with ordinary differential equations It will appeal to advanced undergraduate and graduate students applied mathematicians engineers and researchers in a broad range of disciplines such as population dynamics biology chemistry computing economics nonlinear optics neural networks and physics Praise for the Second Edition This book is a valuable reference to the existing literature on dynamical systems especially for the remarkable collection of examples and applications selected from very different areas as well as for its treatment with MATLAB of these problems Fernando Casas zBMATH The vast compilation of applications makes this text a great resource for applied mathematicians

engineers physicists and researchers Instructors will be pleased to find an aims and objectives section at the beginning of each chapter where the author outlines its content and provides student learning objectives Stanley R Huddy MAA Reviews

Undocumented Secrets of MATLAB-Java Programming Yair M. Altman,2011-12-05 For a variety of reasons the MATLAB Java interface was never fully documented This is really quite unfortunate Java is one of the most widely used programming languages having many times the number of programmers and programming resources as MATLAB Also unfortunate is the popular claim that while MATLAB is a fine programming platform for prototyping it is not suitable for real world modern looking applications Undocumented Secrets of MATLAB Java Programming aims to correct this misconception This book shows how using Java can significantly improve MATLAB program appearance and functionality and that this can be done easily and even without any prior Java knowledge Readers are led step by step from simple to complex customizations Code snippets screenshots and numerous online references are provided to enable the utilization of this book as both a sequential tutorial and as a random access reference suited for immediate use Java savvy readers will find it easy to tailor code samples for their particular needs for Java newcomers an introduction to Java and numerous online references are provided This book demonstrates how The MATLAB programming environment relies on Java for numerous tasks including networking data processing algorithms and graphical user interface GUI We can use MATLAB for easy access to external Java functionality either third party or user created Using Java we can extensively customize the MATLAB environment and application GUI enabling the creation of visually appealing and usable applications

Modal Testing Peter Avitabile,2017-11-13 The practical clear and concise guide for conducting experimental modal tests *Modal Testing A Practitioner s Guide* outlines the basic information necessary to conduct an experimental modal test The text draws on the author s extensive experience to cover the practical side of the concerns that may arise when performing an experimental modal test Taking a hands on approach the book explores the issues related to conducting a test from start to finish It covers the cornerstones of the basic information needed and summarizes all the pertinent theory related to experimental modal testing Designed to be accessible *Modal Testing* presents the most common excitation techniques used for modal testing today and is filled with illustrative examples related to impact testing which is the most widely used excitation technique for traditional experimental modal tests This practical text is not about developing the details of the theory but rather applying the theory to solve real life problems and Delivers easy to understand explanations of complicated theoretical concepts Presents basic steps of an experimental modal test Offers simple explanations of methods to obtain good measurements and avoid the common blunders typically found in many test approaches Focuses on the issues to be faced when performing an experimental modal test Contains full color format that enhances the clarity of the figures and presentations *Modal Testing A Practitioner s Guide* is a groundbreaking reference that treats modal testing at the level of the practicing engineer or a new entrant to the field of experimental dynamic testing

An Introduction to Stochastic Processes Edward P.C. Kao,2019-12-18 This

incorporation of computer use into teaching and learning stochastic processes takes an applications and computer oriented approach rather than a mathematically rigorous approach Solutions Manual available to instructors upon request 1997 edition

Fractal Analyses: Statistical And Methodological Innovations And Best Practices John G. Holden, Michael A. Riley, Jianbo Gao, Kjerstin Torre, 2013-06-03 Many statistical and methodological developments regarding fractal analyses have appeared in the scientific literature since the publication of the seminal texts introducing Fractal Physiology However the lion s share of more recent work is distributed across many outlets and disciplines including aquatic sciences biology computer science ecology economics geology mathematics medicine neuroscience physics physiology psychology and others The purpose of this special topic is to solicit submissions regarding fractal and nonlinear statistical techniques from experts that span a wide range of disciplines The articles will aggregate extensive cross discipline expertise into comprehensive and broadly applicable resources that will support the application of fractal methods to physiology and related disciplines The articles will be organized with respect to a continuum defined by the characteristics of the empirical measurements a given analysis is intended to confront At one end of the continuum are stochastic techniques directed at assessing scale invariant but stochastic data The next step in the continuum concerns self affine random fractals and methods directed at systems that entail scale invariant or $1/f$ patterns or related patterns of temporal and spatial fluctuation Analyses directed at noisy deterministic signals correspond to the final stage of the continuum that relates the statistical treatments of nonlinear stochastic and deterministic signals Each section will contain introductory articles advanced articles and application articles so readers with any level of expertise with fractal methods will find the special topic accessible and useful Example stochastic methods include probability density estimation for the inverse power law the lognormal and related distributions Articles describing statistical issues and tools for discriminating different classes of distributions will be included An example issue is distinguishing power law distributions from exponential distributions Modeling issues and problems regarding statistical mimicking will be addressed as well The random fractal section will present introductions to several one dimensional monofractal time series analysis Introductory articles will be accompanied by advanced articles that will supply comprehensive treatments of all the key fractal time series methods such as dispersion analysis detrended fluctuation analysis power spectral density analysis and wavelet techniques Box counting and related techniques will be introduced and described for spatial analyses of two and three dimensional domains as well Tutorial articles on the execution and interpretation of multifractal analyses will be solicited There are several standard wavelet based and detrended fluctuation based methods for estimating a multifractal spectrum We hope to include articles that contrast the different methods and compare their statistical performance as well The deterministic methods section will include articles that present methods of phase space reconstruction recurrence analysis and cross recurrence analysis Recurrence methods are widely applicable but motivated by signals that contain deterministic patterns Nonetheless recent developments such as the analysis of recurrence

interval scaling relations suggest applicability to fractal systems Several related statistical procedures will be included in this section Examples include average mutual information statistics and false nearest neighbor analyses

Python GUI with MySQL: A Step By Step Guide to Database Programming Vivian Siahaan,Rismon Hasiholan Sianipar,2019-08-13 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 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 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 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 Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-13 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

A PRACTICAL GUIDE TO Database Programming with PHP/MySQL Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-04-14 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 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 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 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 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

Java In Action: An Excellent Guide to Explore JDBC And Database Applications Vivian Siahaan,Rismon Hasiholan Sianipar,2019-11-27 This step by step guide to explore database programming using Java is ideal for people with little or no programming experience The goal of this concise book is not just to teach you Java but to help you think like a programmer Each brief chapter covers the material for one week of a college course to help you practice what you ve learned As you would expect this book shows how to build from scratch two different databases PostgreSQL and SQLite using Java In designing a GUI and as an IDE you will make use of the NetBeans tool In the first chapter 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 the first chapter 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 the second chapter 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 create a PostgreSQL database named School and its tables In chapter four 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 five you will learn Creating the 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 six you will study how to query the six tables In chapter seven you will be shown how to create SQLite database and tables with Java In chapter eight you will be taught how to extract image features utilizing BufferedImage class in Java GUI Digital image techniques to extract image features used in this chapter are grascaling sharpening inverting blurring dilation erosion closing opening vertical prewitt horizontal prewitt Laplacian horizontal sobel and vertical sobel For readers you can develop it to store other advanced image features based on descriptors such as SIFT and others for developing descriptor based matching In chapter nine 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 ten 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 All six fields except keys will have a BLOB data type so that the image of the feature will be directly saved into this table In chapter eleven 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 twelve you will add two tables Victim and Case_File 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 Case_File has seven columns case_file_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 SQLite programmer

The Absolute Beginner's Guide to Learn Python GUI with MySQL and SQL Server Databases Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-16

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 MySQL 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 MySQL 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 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 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 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

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Java Programming For Developers: The Definitive Guide to Learn JDBC And Database Applications Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-11-28 This step by step guide to explore database programming using Java is ideal for people with little or no programming experience The goal of this concise book is not just to teach you Java but to help you think like a programmer Each brief chapter covers the material for one week of a college course to help you practice what you've learned As you would expect this book shows how to build from scratch two different databases MariaDB and SQLite using Java In designing a GUI and as an IDE you will make use of the NetBeans tool In the first chapter 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 In the second chapter 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 the third chapter 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 the fourth chapter You create a table with the name of the Account which has ten columns 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 the fifth chapter 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 six you will be shown how to create SQLite database and tables with Java In chapter seven you will be taught how to extract image features utilizing BufferedImage class in Java GUI Digital image techniques to extract image features used in this chapter are grascaling sharpening inverting blurring dilation erosion closing opening vertical prewitt horizontal prewitt Laplacian horizontal sobel and vertical sobel For readers you can develop it to store other advanced image features based on descriptors such as SIFT and others for developing descriptor based matching In chapter eight 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 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 All six fields except keys will have a BLOB data type so that the

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[The Absolute Beginner's Guide to Learn Database Programming Using Python GUI with MariaDB and SQL Server](#) Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-16 This book is designed to introduce programmers to programming and 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 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 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

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The Ultimate Guide to Professional Database Programming with Python and PostgreSQL

Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-01-15 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

[Coding For Programmers Using Python: The Step-by-Step Guide to Learn PyQt and Database Applications](#) Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-11-29 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

Learn PyQt By Example: A Quick Start Guide to MySQL and SQLite Driven Programming Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-11-24 This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of MySQL 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 MySQL 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 you will create dan 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 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 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

Learn PyQt The Hard Way: A Quick Start Guide to PostgreSQL and SQLite Driven Programming Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-11-25 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

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and description You will create GUI to display edit insert and delete for both tables as well [Learn JDBC By Example: A Quick Start Guide to MariaDB and SQL Server Driven Programming](#) Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-11-24

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 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 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 primary key 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 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 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 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 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

The Self-Taught Coder: The Definitive Guide to Database Programming with Python and MySQL Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-02-19 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 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 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 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 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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