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# Learning Android Application Development

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# Android Application Development Practical Guide And Easy Learning Tutorial

**Vivian Siahaan, Rismon Hasiholan  
Sianipar**



## **Android Application Development Practical Guide And Easy Learning Tutorial:**

Android Application Development Ray Melius,2014-11-28 We consider that the fast and easiest way of learning is by examples Every new concept is illustrated by a simple demo application I this way the readers first feel and see the concept in a real running app even before they completely understand it The full explanation and knowledge comes after that Who This Book Is For This book is meant for both beginners and intermediate application developers who would like to come up quickly to Android development using the Android Development Tools Bundle The main method is first to build a running example that illustrates some concept and next we explain the programming concept through that example What You Will Learn How to install configure and to use the most popular ADT Android Development Tools for Android development The basics of Android application development are explained systematic trough working applications You may follow the explanations from the book or just download install the project and run the application Useful tips and tricks for creating spectacular applications How to troubleshoot and debug Android applications using ADT It includes a list of common errors and their resolutions The complete project published on Google Play and instructions how to prepare and publish your application How To Read This Book It is structured in such a way so the learning process be intuitive and fast The hyperlinks pointing to main concepts make navigation between different parts of the book easy The reader may follow step by step instructions illustrated by screenshots or download and run the demo app and later follow the explanations After finishing the part I you may skip Application Fundamentals and choose topics in random order and use hyperlinks for quick reference

**Android Wireless Application Development Volume I** Lauren Darcey,Shane Conder,2012-02-22 Android Wireless Application Development has earned a reputation as the most useful real world guide to building robust commercial grade Android apps Now authors Lauren Darcey and Shane Conder have systematically revised and updated this guide for the latest Android SDK 4.0 To accommodate their extensive new coverage they've split the book into two volumes Volume I focuses on Android essentials including setting up your development environment understanding the application lifecycle designing effective user interfaces developing for diverse devices and optimizing your mobile app development process from design through publishing Every chapter has been thoroughly updated for the newest APIs tools utilities and hardware All sample code has been overhauled and tested on leading devices from multiple companies and many new examples have been added Drawing on decades of in the trenches experience as professional mobile developers Darcey and Conder provide valuable new best practices including powerful techniques for constructing more portable apps This new edition contains full chapters on Android manifest files content providers effective app design and testing an all new chapter on tackling compatibility issues coverage of today's most valuable new Android tools and utilities and even more exclusive tips and tricks An indispensable resource for every Android development team member 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 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 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 a 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

**Android Wireless Application Development** Lauren Darcey,Shane Conder,2012 Since Android s earliest releases Android Wireless Application Development has earned a reputation as the most useful real world guide for everyone who wants to build robust commercial grade Android apps Now authors Lauren Darcey and Shane Conder have systematically revised and updated this guide for the brand new version 4 of the Android SDK To accommodate extensive new coverage they ve also split the book into two volumes Volume I covers all the essentials of modern Android development offering expert insights for the entire app development lifecycle from concept to market Darcey and Conder go beyond Android s core features covering many of the SDK s most interesting and powerful features from LiveFolders to wallpaper customization

*Practical Java Programming for IoT, AI, and Blockchain* Perry Xiao,2019-07-23 Learn practical uses for some of the hottest tech applications trending among technology professionals We are living in an era of digital revolution On the horizon many emerging digital technologies are being developed at a breathtaking speed Whether we like it or not whether we are ready or not digital technologies are going to penetrate more and more deeper and deeper into every aspect of our lives This is going to fundamentally change how we live how we work and how we socialize Java as a

modern high level programming language is an excellent tool for helping us to learn these digital technologies as well as to develop digital applications such as IoT AI Cybersecurity Blockchain and more Practical Java Programming uses Java as a tool to help you learn these new digital technologies and to be better prepared for the future changes Gives you a brief overview for getting started with Java Programming Dives into how you can apply your new knowledge to some of the biggest trending applications today Helps you understand how to program Java to interact with operating systems networking and mobile applications Shows you how Java can be used in trending tech applications such as IoT Internet of Things AI Artificial Intelligence Cybersecurity and Blockchain Get ready to find out firsthand how Java can be used for connected home devices healthcare the cloud and all the hottest tech applications

*A Practical Guide to Database Programming with Java GUI and PostgreSQL* Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-12 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 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 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 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 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 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 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 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

**App Inventor 2 Introduction** Edward Mitchell, MS, MBA, 2014-05-14 MIT App Inventor 2 is the fast and easy way to create custom Android apps for smart phones or tablets This guide introduces the basic App Inventor features you can likely create your first simple app in about an hour and understand the basic components of App Inventor in a full day App Inventor 2 is free to use and you can use it for commercial applications too App Inventor 2 Introduction is targeted at adult learners high school and up and shows how to design your app s user interface with drag and drop interface controls to layout your app s screen design Then implement the app s behavior with unique drag and drop programming blocks to quickly assemble the program in a graphical interface This introduction covers the basics of the App Inventor user interface Designer and the Blocks programming editor plus basic blocks programming concepts and tools for arithmetic text processing event handling lists and other features Updates and additional tutorials are available on the book s web site at [appinventorpevest.com](http://appinventorpevest.com)

**The Practical Guides on Deep Learning Using SCIKIT-LEARN, KERAS, and TENSORFLOW with Python GUI** Vivian Siahaan, Rismon Hasiholan Sianipar, 2023-06-17 In this book you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on recognizing traffic signs using GTSRB dataset detecting brain tumor using Brain Image MRI dataset classifying gender and recognizing facial expression using FER2013 dataset In Chapter 1 you will learn to create GUI applications to display image histogram It is a graphical representation that displays the distribution of pixel intensities in an image It provides information about the frequency of occurrence of each intensity level in the image The

histogram allows us to understand the overall brightness or contrast of the image and can reveal important characteristics such as dynamic range exposure and the presence of certain image features In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn Pandas NumPy and other libraries to perform prediction on handwritten digits using MNIST dataset The MNIST dataset is a widely used dataset in machine learning and computer vision particularly for image classification tasks It consists of a collection of handwritten digits from zero to nine where each digit is represented as a 28x28 grayscale image The dataset was created by collecting handwriting samples from various individuals and then preprocessing them to standardize the format Each image in the dataset represents a single digit and is labeled with the corresponding digit it represents The labels range from 0 to 9 indicating the true value of the handwritten digit In Chapter 3 you will learn how to perform recognizing traffic signs using GTSRB dataset from Kaggle There are several different types of traffic signs like speed limits no entry traffic signals turn left or right children crossing no passing of heavy vehicles etc Traffic signs classification is the process of identifying which class a traffic sign belongs to In this Python project you will build a deep neural network model that can classify traffic signs in image into different categories With this model you will be able to read and understand traffic signs which are a very important task for all autonomous vehicles You will build a GUI application for this purpose In Chapter 4 you will learn how to perform detecting brain tumor using Brain Image MRI dataset Following are the steps taken in this chapter Dataset Exploration Explore the Brain Image MRI dataset from Kaggle Describe the structure of the dataset the different classes tumor vs non tumor and any preprocessing steps required Data Preprocessing Preprocess the dataset to prepare it for model training This may include tasks such as resizing images normalizing pixel values splitting data into training and testing sets and creating labels Model Building Use TensorFlow and Keras to build a deep learning model for brain tumor detection Choose an appropriate architecture such as a convolutional neural network CNN and configure the model layers Model Training Train the brain tumor detection model using the preprocessed dataset Specify the loss function optimizer and evaluation metrics Monitor the training process and visualize the training validation accuracy and loss over epochs Model Evaluation Evaluate the trained model on the testing dataset Calculate metrics such as accuracy precision recall and F1 score to assess the model s performance Prediction and Visualization Use the trained model to make predictions on new MRI images Visualize the predicted results alongside the ground truth labels to demonstrate the effectiveness of the model Finally you will build a GUI application for this purpose In Chapter 5 you will learn how to perform classifying gender using dataset provided by Kaggle using MobileNetV2 and CNN models Following are the steps taken in this chapter Data Exploration Load the dataset using Pandas perform exploratory data analysis EDA to gain insights into the data and visualize the distribution of gender classes Data Preprocessing Preprocess the dataset by performing necessary transformations such as resizing images converting labels to numerical format and splitting the data into training validation and test sets Model Building Use TensorFlow and Keras to build a

gender classification model Define the architecture of the model compile it with appropriate loss and optimization functions and summarize the model s structure Model Training Train the model on the training set monitor its performance on the validation set and tune hyperparameters if necessary Visualize the training history to analyze the model s learning progress Model Evaluation Evaluate the trained model s performance on the test set using various metrics such as accuracy precision recall and F1 score Generate a classification report and a confusion matrix to assess the model s performance in detail Prediction and Visualization Use the trained model to make gender predictions on new unseen data Visualize a few sample predictions along with the corresponding images Finally you will build a GUI application for this purpose In Chapter 6 you will learn how to perform recognizing facial expression using FER2013 dataset using CNN model The FER2013 dataset contains facial images categorized into seven different emotions anger disgust fear happiness sadness surprise and neutral To perform facial expression recognition using this dataset you would typically follow these steps Data Preprocessing Load and preprocess the dataset This may involve resizing the images converting them to grayscale and normalizing the pixel values Data Split Split the dataset into training validation and testing sets The training set is used to train the model the validation set is used to tune hyperparameters and evaluate the model s performance during training and the testing set is used to assess the final model s accuracy Model Building Build a deep learning model using TensorFlow and Keras This typically involves defining the architecture of the model selecting appropriate layers such as convolutional layers pooling layers and fully connected layers and specifying the activation functions and loss functions Model Training Train the model using the training set This involves feeding the training images through the model calculating the loss and updating the model s parameters using optimization techniques like backpropagation and gradient descent Model Evaluation Evaluate the trained model s performance using the validation set This can include calculating metrics such as accuracy precision recall and F1 score to assess how well the model is performing Model Testing Assess the model s accuracy and performance on the testing set which contains unseen data This step helps determine how well the model generalizes to new unseen facial expressions Prediction Use the trained model to make predictions on new images or live video streams This involves detecting faces in the images using OpenCV extracting facial features and feeding the processed images into the model for prediction Then you will also build a GUI application for this purpose

*App Development Specialist - 400+ Interview Questions & Answers | Perfect Guide for Success* CloudRoar Consulting Services,101-01-01 Are you aiming to progress into a leadership role in IT service management particularly aligned with strategy transformation and governance 350 Interview Questions Answers for ITIL 4 Strategic Leader PeopleCert AXELOS ITIL 4 Strategic Leader Certification Referenced by CloudRoar Consulting Services is your definitive guide This book is tailored to help you build confidence and depth in the skills that organisations expect from strategic IT leadership without being a pure exam cram guide ITIL 4 Strategic Leader SL a designation by PeopleCert AXELOS recognizes professionals who lead in digitally enabled services and demonstrates

how IT directs shapes and supports business strategy peoplecert.org 2axelos.com 2 While this book does not replace official training or exams its Q A sets reflect knowledge areas from the SL stream especially the two modules Strategist Direct Plan Improve DPI and Leader Digital IT Strategy DITS peoplecert.org 1 Inside you ll find 350 expertly crafted questions with model answers covering Digital IT Strategy Alignment How to translate business goals into IT strategy defining digital visions handling disruption innovation and emerging technologies Direct Plan Improve Practices Continual improvement governance risk management decision making structures strategic planning metrics performance measurement Governance Risk Compliance Establishing governance frameworks balancing risk and opportunity regulatory legal compliance audit trails Value Streams Service Value System SVS Understanding the four dimensions of service management value streams service value chain integration of practices to deliver value Leadership Change Culture Leading organisational change influencing culture stakeholder engagement communication coaching future leaders Strategic Decision Making Metrics Key performance indicators balanced scorecards risk quantification prioritizing initiatives investment decision trade offs Driving Transformation Innovation Leveraging technology trends digital disruption cloud AI automation in strategy scalability agility With these Q A you ll be able to diagnose your readiness focus your self study and prepare to articulate both conceptual understanding and practical application in interviews Whether for roles such as IT Strategy Leader IT Director Digital Transformation Lead or for strengthening leadership capability this book helps you shine Because it references the prestigious PeopleCert AXELOS ITIL 4 Strategic Leader scheme it carries credibility in job interviews hiring panels CloudRoar Consulting Services invites you to build not just knowledge but strategic insight Empower your career Lead with clarity Transform with confidence

**The Freelancepreneur Success Blueprint** Dr. Ope Banwo, Welcome to THE FREELANCEPRENEUR BLUEPRINT your ultimate guide to building a profitable and sustainable 6 figure freelancing business from the ground up As a seasoned veteran with over two decades of experience in the freelance world I ve distilled my knowledge insights and proven strategies into this comprehensive blueprint Whether you re a novice just starting out or an established freelancer aiming to scale this book will equip you with the tools and techniques to achieve unparalleled success

Practical Chemoinformatics Muthukumarasamy Karthikeyan, Renu Vyas, 2014-05-06 Chemoinformatics is equipped to impact our life in a big way mainly in the fields of chemical medical and material sciences This book is a product of several years of experience and passion for the subject written in a simple lucid style to attract the interest of the student community who wish to master chemoinformatics as a career The topics chosen cover the entire spectrum of chemoinformatics activities methods data and tools The algorithms open source databases tutorials supporting theory using standard datasets guidelines questions and do it yourself exercises will make it valuable to the academic research community At the same time every chapter devotes a section on development of new software tools relevant for the growing pharmaceutical fine chemicals and life sciences industry The book is intended to assist beginners to hone their skills and also

constitute an interesting reading for the experts      **Android Apps with App Inventor** Jörg H. Kloss, 2012-02-22 Wi Android Apps with App Inventor provides hands on walkthroughs that cover every area of App Inventor development including the Google and MIT versions of App Inventor Kloss begins with the absolute basics of program structure syntax flow and function and then demonstrates simple ways to solve today's most common mobile development problems Along the way you'll build a dozen real Android apps from games and geotrackers to navigation systems and news tickers By the time you're done you'll be comfortable implementing advanced apps and mashups integrating realtime multimedia data from all kinds of Web services with the communication and sensor based features of your smartphone Topics covered include Installing and configuring App Inventor Building modern attractive mobile user interfaces Controlling Android media hardware including the camera Saving data locally with TinyDB or in the cloud with TinyWebDB Streamlining and automating phone text and email communications Tracking orientation acceleration and geoposition Integrating text to speech and speech to text in your apps Controlling other apps and Web services with ActivityStarter Building mobile mashups by exchanging data with Web APIs Testing your apps for diverse hardware with the Android Emulator Example apps including multimedia center online vocabulary trainer finger painting squash game compass geocacher navigator stock market ticker and many more This book will empower you to explore experiment build your skills and confidence and start writing professional quality Android apps for yourself and for everyone else Companion files for this title can be found at [informit.com title 9780321812704](http://informit.com/title/9780321812704)

**STEAM Teaching and Learning Through the Arts and Design** Debrah C. Sickler-Voigt, 2023-04-11 In this book award winning art educator Debrah C Sickler Voigt offers user friendly approachable strategies for STEAM planning instruction and assessment to help cultivate PK 12 students full potential and draws from wide ranging artists and designers to help you develop inspired creative approaches to teaching STEAM in your classroom Beginning with the basics and best practices of STEAM planning instruction and assessment Sickler Voigt then encourages readers to move full steam ahead with chapters based around diverse contemporary and historical artists and designers In helping you to explore the interdisciplinary connections between Science Technology Engineering Arts and Mathematics Sickler Voigt identifies strategies to build off from STEM subjects to form authentic well designed and age appropriate learning tasks that encourage your students to make deep connections and learn subject matter in context through art media and technologies Each chapter includes flexible choice based classroom resources with tips for adapting to different grade levels and STEAM amplifiers which fuse contextual learning on artists and designers with real world STEAM topics to spark student learning and ignite creative approaches to planning instruction and assessment Featuring 150 visually stunning full color images this book fuses tried and true best practices with highly applicable instructional models inspired by artists and STEAM professionals ideal for PK 12 teachers and STEAM specialists      *FULL SOURCE CODE: THE COMPLETE GUIDE TO LEARNING POSTGRESQL AND DATA SCIENCE WITH PYTHON GUI* Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-09-01

In this project we provide you with the PostgreSQL version of SQLite sample database named chinook The chinook sample database is a good database for practicing with SQL especially PostgreSQL The detailed description of the database can be found on <https://www.sqlitetutorial.net/sqlite-sample-database/> The sample database consists of 11 tables The employee table stores employees data such as employee id last name first name etc It also has a field named ReportsTo to specify who reports to whom customers table stores customers data invoices The artist table stores artists data It is a simple table that contains only the artist id and name The album table stores data about a list of tracks Each album belongs to one artist However one artist may have multiple albums The media\_type table stores media types such as MPEG audio and AAC audio files genre table stores music types such as rock jazz metal etc The track table stores the data of songs Each track belongs to one album playlist the distribution of amount by year quarter month week day and hour the bottom top 10 sales by employee the bottom top 10 sales by customer the bottom top 10 sales by customer the bottom top 10 sales by artist the bottom top 10 sales by genre the bottom top 10 sales by play list the bottom top 10 sales by customer city the bottom top 10 sales by customer city the bottom top 10 sales by customer city the payment amount by month with mean and EWM the average payment amount by every month and amount payment in all years

**The Complete Idiot's Guide to Android App Development** Christopher Froehlich, 2011-07-05 An operating manual for the hottest mobile operating system The Complete Idiot's Guide to Android App Development gets novice developers up and running quickly on creating their very own mobile applications with step by step instruction on everything they need to design develop test and publish their fully featured apps The Android operating system is now the largest mobile platform in the U S and there are now more than 90 000 apps available Android is completely open and free to all developers Topics covered include Designing effective and easy to navigate user interfaces for apps Adding audio and video support to apps Making the most of Android's hardware including GPS social media built in camera and voice integration Publishing application to the Android market

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

**The Absolute Beginner's Guide to Learn Database Programming Using Python GUI with PostgreSQL and SQL Server** Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-16. This book is a comprehensive guide to Python as one of the fastest growing computer languages including Web and Internet applications. This clear and concise introduction to the Python language is aimed at

readers who are already familiar with programming in at least one language This hands on book introduces the essential topic of coding and the Python computer language to beginners and programmers of all ages This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of PostgreSQL and SQL Server databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to PostgreSQL and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren't getting the most from both databases In designing a GUI and as an IDE you will make use of Qt Designer In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In chapter three you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In chapter four you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will get introduction of postgresql And then you will learn querying data from the postgresql using Python including establishing a database connection creating a statement object executing the query processing the resultset object querying data using a statement that returns multiple rows querying data using a statement that has parameters inserting data into a table using Python updating data in postgresql database using Python calling postgresql stored function using Python deleting data from a postgresql table using Python and postgresql Python transaction In chapter seven you will create and configure PostgreSQL database In this chapter you will create Suspect table in crime database This table has eleven columns suspect\_id primary key suspect\_name birth\_date case\_date report\_date suspect\_status arrest\_date mother\_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter eight you will create a table with the name Feature\_Extraction which has eight columns feature\_id primary key suspect\_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have a VARCHAR data type 200 You will also create GUI to display edit insert and

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

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

*A Practical Introduction to Human-in-the-Loop Cyber-Physical Systems* David Nunes, Jorge Sa Silva, Fernando Boavida, 2018-02-05 The first book focusing on one of the hottest new topics in Internet of Things systems research and development Studies estimate that by 2020 we will have a vast Internet of Things IoT network comprising 26 billion connected devices including everything from light bulbs to refrigerators coffee makers to cars From the beginning the concept of cyber physical systems CPS or the sensing and control of physical phenomena through networks of devices that work together to achieve common goals has been implicit in the IoT enterprise This book focuses on the increasingly hot topic of Human in the loop Cyber Physical Systems HiTLCPS CPSs that incorporate human responses in IoT equation Why have we not yet integrated the human component into CPSs What are the major challenges to achieving HiTLCPS How can we take advantage of ubiquitous sensing platforms such as smartphones and personal devices to achieve that goal While mature HiTLCPS designs have yet to be achieved or a general consensus reached on underlying HiTLCPS requirements principles and theory researchers and developers worldwide are on the cusp of realizing them With contributions from researchers at the cutting edge of HiTLCPS R D this book addresses many of these questions from the theoretical and practical points of view An essential primer on a rapidly emerging Internet of Things concept focusing on human centric

applications Discusses new topics which until now have only been available in research papers scattered throughout the world literature Addressed fundamental concepts in depth while providing practical insights into the development of complete HiTLCPS systems Includes a companion website containing full source code for all of the applications described This book is an indispensable resource for researchers and app developers eager to explore HiTL concepts and include them into their designs It is also an excellent primer for advanced undergraduates and graduate students studying IoT CPS and HiTLCPS

**ZERO TO MASTERY: THE COMPLETE GUIDE TO LEARNING SQL SERVER AND DATA SCIENCE WITH PYTHON GUI** Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-09-29 In this project we provide you with a SQL SERVER version of an Oracle sample database named OT which is based on a global fictitious company that sells computer hardware including storage motherboard RAM video card and CPU The company maintains the product information such as name description standard cost list price and product line It also tracks the inventory information for all products including warehouses where products are available Because the company operates globally it has warehouses in various locations around the world The company records all customer information including name address and website Each customer has at least one contact person with detailed information including name email and phone The company also places a credit limit on each customer to limit the amount that customer can owe Whenever a customer issues a purchase order a sales order is created in the database with the pending status When the company ships the order the order status becomes shipped In case the customer cancels an order the order status becomes canceled In addition to the sales information the employee data is recorded with some basic information such as name email phone job title manager and hire date In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of order date by year quarter month week and day the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by category top 10 sales by category bottom 10 sales by status top 10 sales by status bottom 10 sales by customer city top 10 sales by customer city bottom 10 sales by customer state top 10 sales by customer state average amount by month with mean and EWM average amount by every month amount feature over June 2016 amount feature over 2017 and amount payment in all years

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