



Tutorial-1

2021



Introduction and installation



Complete MySQL course for beginners and class 11th Students

DEVELOPER THINKING

Mysql Student Guide

**Vivian Siahaan, Rismon Hasiholan
Sianipar**



Mysql Student Guide:

MySQL 5.0 Certification Study Guide Paul DuBois, Stefan Hinz, Carsten Pedersen, 2005-08-24 This is the eBook version of the print title and does not include the CD or DVD accompanying the print version of the book This is the official guide to passing the two MySQL certification tests for MySQL 5 the long awaited major revision of MySQL The number of MySQL certification exams taken has doubled in the last six months Certcities com lists the MySQL certification as one of the top 10 certifications to grow in 2005 MySQL professionals need a way to distinguish themselves from the vast majority of database administrators and developers With more than 4 million active installations MySQL is the world s most popular open source database Known for its speed reliability and ease of use MySQL has become a low cost alternative to expensive database systems such as Oracle IBM and Microsoft MySQL AB has aggressively improved the feature set of MySQL with MySQL 5 making it more suitable for enterprise level applications and uses The MySQL certification tests available at over 3 000 PearsonVUE testing centers is a key component of this enterprise growth strategy establishing a base level of skills for database users administrators and programmers The MySQL Core Certification is aimed at the database user who wants proof of his or her abilities in such fundamental areas as SQL data entry and maintenance and data extraction The MySQL Professional Certification test is designed for the advanced user who wants to prove his or her knowledge in such areas as database management installation security disaster prevention and optimization Both tests are thoroughly covered in the MySQL 5 0 Certification Study Guide Written by Paul DuBois the leading author of books on MySQL topics and reviewed for technical accuracy by MySQL AB this book is the fastest most reliable way for MySQL users developers and administrators to prepare for either of the MySQL tests **A STUDENT GUIDE TO SUCCESS AT PENN STATE: 2012 1ST EDITION**

Edward Glantz, 2012-06-24 U S News and World Report ranks Penn State among the top fifteen public universities nationally Researchers Matthew and Howard Greene label Penn State a Public Ivy due to its academic rigor superstar faculty and talented students of all races Penn State enrolls over seventy thousand undergraduates in twenty campuses including fifteen thousand first year students that begin each year Student Guide transitions new students to success in the competitive Penn State classrooms including note taking and time management skills as well as student activities and support resources Students are also provided career entrance strategies including interview and resume preparation suggestions The college years go by surprisingly fast With this book Dr Glantz an award winning member of the Penn State faculty helps students make each moment more valuable This is beneficial advice especially in challenging economic times *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

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

ZERO TO MASTERY: THE COMPLETE GUIDE TO LEARNING POSTGRESQL WITH PYTHON GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-09-25 This book uses the PostgreSQL version of MySQL based Northwind database The Northwind database is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers orders inventory purchasing suppliers shipping employees and single entry accounting The Northwind database has since been ported to a variety of non Microsoft databases including PostgreSQL The Northwind dataset includes sample data for the following Suppliers Suppliers and vendors of Northwind Customers Customers who buy products from Northwind Employees Employee details of Northwind traders Products Product

information Shippers The details of the shippers who ship the products from the traders to the end customers and Orders and Order_Details Sales Order transactions taking place between the customers 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 supplier top 10 sales by supplier bottom 10 sales by customer country top 10 sales by customer country bottom 10 sales by supplier country top 10 sales by supplier country average amount by month with mean and ewm average amount by every month amount feature over June 1997 amount feature over 1998 and all amount feature

Learn JDBC The Hard Way: A Hands-On Guide to PostgreSQL and SQL Server Driven Programming Vivian

Siahaan,Rismon Hasiholan Sianipar,2019-11-23 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

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[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 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

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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

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[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

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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

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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 *AWS Certified Database Study Guide* Matheus Arrais,Rene Martinez Bravet,Leonardo Ciccone,Angie Nobre Cocharero,Erika Kurauchi,Hugo Rozestraten,2023-04-12 Validate your AWS Cloud database skills AWS Certified Database Study Guide Specialty DBS C01 Exam focuses on helping you to understand the basic job role of a database administrator architect and to prepare for taking the certification exam This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS Cloud and performing a database focused role AWS is the frontrunner in cloud computing products and services and this study guide will help you to gain an understanding of core AWS services uses and basic AWS database design and deployment best practices AWS offers more than relational and nonrelation databases they offer purpose built databases which allow you to utilize database services prebuilt to meet your business requirements If you are looking to take the Specialty DBS C01 exam this Study Guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career AWS Certified Database certification offers a great way for IT professionals to achieve industry recognition as cloud experts This new study guide is perfect for you if you perform a database focused role and want to pass the DBS C01 exam to prove your knowledge of how to design and deploy secure and robust database applications on AWS technologies IT cloud professionals who hold AWS certifications are in great demand and this certification could take your career to the next level Master all the key concepts you need to pass the AWS Certified Database Specialty DBS C01 Exam Further your career by demonstrating your cloud computing expertise and your knowledge of databases and database services Understand the concept of purpose built databases allowing you to pick the right tool for the right job Review deployment and migration management and operations monitoring and troubleshooting database security and more Access the Sybex online learning environment and test bank for interactive study aids and practice questions Readers will also get one year of FREE access after activation to Sybex s superior online interactive learning environment and test bank including hundreds of questions a practice exam electronic flashcards and a glossary of key terms **ZERO TO MASTERY: THE COMPLETE GUIDE TO LEARNING SQLITE AND PYTHON GUI** Vivian Siahaan,Rismon Hasiholan Sianipar,2022-08-17 In this project we provide you with the SQLite version of The Oracle Database Sample Schemas that provides a common platform for examples in each release of the Oracle Database The sample database is also a good database for practicing with SQL especially SQLite The detailed description of the database can be found on <http://luna.ext.oracle.com/pt/oracle11g/server/112/e10831/diagrams.htm> insertedID0 The four schemas are a set of interlinked schemas This set of schemas provides a layered approach to complexity A simple schema Human Resources HR is useful for introducing basic topics An extension to this schema supports Oracle Internet Directory demos A second schema Order Entry OE is useful for dealing with matters of intermediate complexity

Many data types are available in this schema including non scalar data types The Online Catalog OC subschema is a collection of object relational database objects built inside the OE schema The Product Media PM schema is dedicated to multimedia data types The Sales History SH schema is designed to allow for demos with large amounts of data An extension to this schema provides support for advanced analytic processing The HR schema consists of seven tables regions countries locations departments employees jobs and job_histories This book only implements HR schema since the other schemas will be implemented in the next books

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

regex_matches function regex_replace function replace function to_number function and to_char function **A**

Comprehensive Guide to Java GUI Programming with SQLite Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-02

The lessons in this book are a highly organized and well indexed set of tutorials meant for students and programmers. Netbeans a specific IDE Integrated Development Environment is used to create GUI Graphical User Interface applications. The finished product is the reward but the readers are fully engaged and enriched by the process. This kind of learning is often the focus of training. In this book you will learn how to build from scratch a SQLite 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 use SQLite in Java. In chapter one you will learn How to create SQLite database and 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 tables. In chapter four you will study how to query the six tables. In chapter five you will create Bank database and its four tables. In chapter six 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 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 create Crime database and its six 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 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 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 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 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

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 grayscaling 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

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 databases In designing a GUI

and as an IDE you will make use Qt Designer In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In chapter three you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In chapter four you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six and chapter seven you will get introduction of postgresql And then you will learn querying data from the postgresql using Python including establishing a database connection creating a statement object executing the query processing the resultset object querying data using a statement that returns multiple rows querying data using a statement that has parameters inserting data into a table using Python updating data in postgresql database using Python calling postgresql stored function using Python deleting data from a postgresql table using Python and postgresql Python transaction In chapter eight you will create 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 nine you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have a VARCHAR data type 200 You will also create GUI to display edit insert and delete for this table In chapter ten you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In chapter eleven you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status

and description You will create GUI to display edit insert and delete for both tables as well [AWS Certified Solutions Architect Official Study Guide](#) Joe Baron,Hisham Baz,Tim Bixler,Biff Gaut,Kevin E. Kelly,Sean Senior,John Stamper,2016-10-17 Validate your AWS skills This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud AWS has been the frontrunner in cloud computing products and services and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content and real world knowledge key exam essentials chapter review questions access to Sybex s interactive online learning environment and much more This official study guide written by AWS experts covers exam concepts and provides key review on exam topics including Mapping Multi Tier Architectures to AWS Services such as web app servers firewalls caches and load balancers Understanding managed RDBMS through AWS RDS MySQL Oracle SQL Server Postgres Aurora Understanding Loose Coupling and Stateless Systems Comparing Different Consistency Models in AWS Services Understanding how AWS CloudFront can make your application more cost efficient faster and secure Implementing Route tables Access Control Lists Firewalls NAT and DNS Applying AWS Security Features along with traditional Information and Application Security Using Compute Networking Storage and Database AWS services Architecting Large Scale Distributed Systems Understanding of Elasticity and Scalability Concepts Understanding of Network Technologies Relating to AWS Deploying and Managing Services with tools such as CloudFormation OpsWorks and Elastic Beanstalk Learn from the AWS subject matter experts review with proven study tools and apply real world scenarios If you are looking to take the AWS Certified Solutions Architect Associate exam this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career [Hands-On Guide On Data Science and Machine Learning with Python GUI](#) Vivian Siahaan,2021-07-08 In this book you will implement two data science projects using Scikit Learn Scipy and other libraries with Python GUI In Chapter 1 you will learn how to use Scikit Learn Scipy and other libraries to perform how to predict traffic number of vehicles in four different junctions using Traffic Prediction Dataset provided by Kaggle <https://www.kaggle.com/fedesoriano/traffic-prediction-dataset-download> This dataset contains 48 1k 48120 observations of the number of vehicles each hour in four different junctions 1 DateTime 2 Junction 3 Vehicles and 4 ID In Chapter 2 you will learn how to use Scikit Learn NumPy Pandas and other libraries to perform how to analyze and predict heart attack using Heart Attack Analysis Prediction Dataset provided by Kaggle <https://www.kaggle.com/rashikrahmanpritom/heart-attack-analysis-prediction-dataset-download> In Chapter 3 you will learn how to use Scikit Learn SVM NumPy Pandas and other libraries to perform how to predict early stage diabetes using Early Stage Diabetes Risk Prediction Dataset provided by Kaggle <https://www.kaggle.com/ishandutta/early-stage-diabetes-risk-prediction-dataset-download> This dataset contains the sign and symptomp data of newly diabetic or would be diabetic patient This has been collected using direct questionnaires from the patients of Sylhet Diabetes Hospital in Sylhet Bangladesh and approved by a doctor [AWS](#)

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