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the Oracle Database  
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features, such as PIVOT  
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*only useful for self  
updating readers but  
also useful for the  
readers who already  
known the concepts and  
get more indept  
knowledge on the topic*



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technologies and  
presents the information  
in a simple to learn***

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***Data Pipelines Pocket  
Reference***

***JDBC***

With the almost unfathomable increase in web traffic over recent years, driven by millions of



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connected users, businesses are gaining access to massive amounts of complex, unstructured data from which to gain insight. When Hadoop was introduced by Yahoo in

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2007, it brought with it a paradigm shift in how this data was stored and analysed. Hadoop allowed small and medium sized companies to store huge amounts of data on cheap

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commodity servers in racks. The introduction of Big Data has allowed businesses to make decisions based on quantifiable analysis. Hadoop is now implemented in major organizations such

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as Amazon, IBM, Cloudera,  
and Dell to name a few. This  
book introduces you to  
Hadoop and to concepts  
such as 'MapReduce', 'Rack  
Awareness', 'Yarn' and  
'HDFS Federation', which

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will help you get acquainted with the technology.

In the last ten years IT has brought fundamental changes to the way the world works. Not only has it increased the speed of

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operations and communications, but it has also undermined basic assumptions of traditional business models and increased the number of variables. Today, the

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survival of major  
corporations is challenged  
by a world-wide  
marketplace, international  
operations, outsourcing,  
global communities, a  
changing workforce,

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security threats, business continuity, web visibility, and customer expectations. Enterprises must constantly adapt or they will be unable to compete. Fred Cummins, an EDS Fellow, presents IT



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as a key enabler of the agile enterprise. He demonstrates how the convergence of key technologies—including SOA, BPM and emerging enterprise and data models—can be harnessed

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to transform the enterprise. Cummins mines his 25 years experience to provide IT leaders, as well as enterprise architects and management consultants, with the critical information,

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skills, and insights they need to partner with management and redesign the enterprise for continuous change. No other book puts IT at the center of this transformation, nor

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integrates these technologies for this purpose. Shows how to integrate and deploy critical technologies to foster agility  
Details how to design an enterprise architecture that

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takes full advantage of SOA,  
BPM, business rules,  
enterprise information  
management, business  
models, and governance  
Outlines IT's critical mission  
in providing an integration

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infrastructure and key services, while optimizing technology adoption throughout the enterprise  
Illustrates concepts with examples and cases from large and small commercial

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enterprises Shows how to  
create systems that  
recognize and respond to  
the need for change  
Identifies the unique  
security issues that arise  
with SOA and shows how to

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deploy a framework of  
technologies and processes  
that address them

In this book, you will learn  
how to build from scratch a  
criminal records  
management database



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system using Java/SQLite.

All Java code for digital image processing in this book is Native Java.

Intentionally not to rely on external libraries, so that readers know in detail the

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process of extracting digital images from scratch in Java. In chapter one, you will create Bank database and its four tables. In chapter two, you will learn the basics of cryptography using Java.

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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

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generate and verify digital prints. In chapter three, 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

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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

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save public and private keys into a database. You will also learn how to encrypt / decrypt data and save the results into a database. In chapter four, you will create an Account table. This

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account table has the following ten fields:  
account\_id (primary key),  
client\_id (primarykey),  
account\_number,  
account\_date, account\_type,  
plain\_balance,

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cipher\_balance,  
decipher\_balance,  
digital\_signature, and  
signature\_verification. In  
this case, you will learn how  
to implement generating  
and verifying digital prints



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and storing the results into a database. In chapter five, you will create a `Client_Data` table, which has the following seven fields:  
`client_data_id` (primary key),  
`account_id` (primary\_key),

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birth\_date, address,  
mother\_name, telephone,  
and photo\_path. In chapter  
six, you will create Crime  
database and its six tables.  
In chapter seven, you will be  
taught how to extract image

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features, utilizing  
BufferedImage class, in Java  
GUI. In chapter eight, you  
will be taught to create Java  
GUI to view, edit, insert, and  
delete Suspect table data.  
This table has eleven

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columns: suspect\_id  
(primary key),  
suspect\_name, birth\_date,  
case\_date, report\_date,  
suspect\_status, arrest\_date,  
mother\_name, address,  
telephone, and photo. In

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chapter nine, you will be taught to create Java GUI to view, edit, insert, and delete Feature\_Extraction table data. This table has eight columns: feature\_id (primary key), suspect\_id (foreign

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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.

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In chapter ten, you will add two tables: `Police_Station` and `Investigator`. These two tables will later be joined to `Suspect` table through another table, `File_Case`, which will be built in the

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seventh chapter. The Police\_Station has six columns: police\_station\_id (primary key), location, city, province, telephone, and photo. The Investigator has eight columns:



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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

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tables. In chapter eleven, you will add two tables: Victim and File\_Case. The File\_Case table will connect four other tables: Suspect, Police\_Station, Investigator and Victim. The Victim table

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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`

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(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

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Java GUI to display, edit, fill,  
and delete data in both  
tables.

The complexity of life,  
because they do not  
understand to simplify the  
complex, to simplify the

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complexity, simple is the beginning of wisdom. From the essence of practice, to briefly explain the concept, and vividly cultivate programming interest, this book easy and quickly learn

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JDBC + MySQL.1. JDBC  
connect MySQL about Add  
Delete Update Research2.  
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JDBC Tool DBUtil4. DBUtil  
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UserDAO CRUD6. DBUtil

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UserDAO Paging Query7.  
JDBC Reflections Any  
Object8. JDBC Transaction9.  
JDBC Save and Export Text  
File10. JDBC Save and  
Export Picture11. JDBC Call  
Stored Procedure Add



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User12. JDBC Call Stored  
Procedure Update User13.  
JDBC Call Stored Procedure  
Delete User14. JDBC Call  
Stored Procedure Query  
User15. JDBC Call Stored  
Procedure Return Parameter

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"Business analysis involves understanding how organizations function to accomplish their purposes and defining the capabilities an organization requires to provide products and

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services to external stakeholders. ... [This guide contains] a framework that describes the business analysis tasks that must be performed in order to understand how a solution

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will deliver value to the  
sponsoring organization." -  
page 3.

GUI Development for SQLite-  
Based Applications with  
NetBeans

Database Programming with

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is at the heart of  
today's Big Data  
revolution, helping data  
professionals  
supercharge efficiency  
and performance in a  
wide range of data

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processing and analytics tasks. In this guide, Big Data expert Jeffrey Aven covers all you need to know to leverage Spark, together with its extensions, subprojects,



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and wider ecosystem.  
Aven combines a language-agnostic introduction to foundational Spark concepts with extensive programming examples utilizing the popular

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and intuitive PySpark  
development environment.  
This guide's focus on  
Python makes it widely  
accessible to large  
audiences of data  
professionals, analysts,

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and developers—even those with little Hadoop or Spark experience. Aven's broad coverage ranges from basic to advanced Spark programming, and Spark

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SQL to machine learning.  
You'll learn how to  
efficiently manage all  
forms of data with  
Spark: streaming,  
structured, semi-  
structured, and

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exercises prepare you to  
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Spark clusters using  
various deployment modes

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- Extend, accelerate, and

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optimize Spark routines  
with advanced API  
platform constructs,  
including shared  
variables, RDD storage,  
and partitioning •  
Efficiently integrate



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faster, and comes in a  
variety of formats—and  
it all needs to be  
processed at scale for  
analytics or machine

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structure and  
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to perform simple and  
complex data analytics

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Topics -- 6 -- An

eCommerce Example -- 7

-- How to Stay Current

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Appendix.

This step-by-step guide

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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,

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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

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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

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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

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**external libraries into  
projects; How the basic  
PostgreSQL commands are  
used; How to query  
statements to create  
databases, create  
tables, fill tables, and**

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manipulate table  
contents is done. In the  
first chapter, you will  
learn: How to install  
NetBeans, JDK 11, and  
the PostgreSQL  
connector; How to



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integrate external  
libraries into projects;  
How the basic PostgreSQL  
commands are used; How  
to query statements to  
create databases, create  
tables, fill tables, and

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manipulate table  
contents is done. In the  
second chapter, you will  
learn querying data from  
the postgresql using  
jdbc including  
establishing a database

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connection, creating a  
statement object,  
executing the query,  
processing the resultset  
object, querying data  
using a statement that  
returns multiple rows,

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querying data using a  
statement that has  
parameters, inserting  
data into a table using  
jdbc, updating data in  
postgresql database  
using jdbc, calling

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postgresql stored  
function using jdbc,  
deleting data from a  
postgresql table using  
jdbc, and postgresql  
jdbc transaction. In  
chapter three, you will

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create a PostgreSQL  
database, named School,  
and its tables. In  
chapter four, you will  
study: Creating the  
initial three table  
projects in the school

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database: Teacher table,  
TClass table, and  
Subject table; Creating  
database configuration  
files; Creating a Java  
GUI for viewing and  
navigating the contents

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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



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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

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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;

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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

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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

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Java GUI. Digital image techniques to extract image features used in this chapter are grayscaleing, sharpening, inverting, blurring, dilation, erosion,

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closing, opening,  
vertical prewitt,  
horizontal prewitt,  
Laplacian, horizontal  
sobel, and vertical  
sobel. For readers, you  
can develop it to store

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other advanced image features based on descriptors such as SIFT and others for developing descriptor based matching. In chapter nine, you will

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be taught to create Java  
GUI to view, edit,  
insert, and delete  
Suspect table data. This  
table has eleven  
columns: suspect\_id  
(primary key),



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`suspect_name,`  
`birth_date, case_date,`  
`report_date, suspect_`  
`status, arrest_date,`  
`mother_name, address,`  
`telephone, and photo. In`  
`chapter ten, you will be`

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taught to create Java  
GUI to view, edit,  
insert, and delete  
Feature\_Extraction table  
data. This table has  
eight columns:  
feature\_id (primary

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key), suspect\_id  
(foreign key), feature1,  
feature2, feature3,  
feature4, feature5, and  
feature6. All six fields  
(except keys) will have  
a BLOB data type, so

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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

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tables will later be joined to Suspect table through another table, File\_Case, which will be built in the seventh chapter. The Police\_Station has six

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columns:

police\_station\_id  
(primary key), location,  
city, province,  
telephone, and photo.

The Investigator has  
eight columns:

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`investigator_id` (primary key), `investigator_name`, `rank`, `birth_date`, `gender`, `address`, `telephone`, and `photo`.

Here, you will design a Java GUI to display,

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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



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tables: Suspect,  
Police\_Station,  
Investigator and Victim.  
The Victim table has  
nine columns: victim\_id  
(primary key),  
victim\_name, crime\_type,

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`birth_date`, `crime_date`,  
`gender`, `address`,  
`telephone`, and `photo`.

The `Case_File` has seven  
columns: `case_file_id`  
(primary key),  
`suspect_id` (foreign

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key), police\_station\_id  
(foreign key),  
investigator\_id (foreign  
key), victim\_id (foreign  
key), status, and  
description. Here, you  
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from applications,  
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Subject table; Creating  
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sharpening, inverting,  
blurring, dilation, erosion,  
closing, opening, vertical  
prewitt, horizontal prewitt,  
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image features based on descriptors such as SIFT and others for developing descriptor based matching. In chapter seven, you will be taught to create Java GUI to view, edit, insert, and delete Suspect table data.

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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

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chapter eight, 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,

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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 nine, you



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will add two tables:  
Police\_Station and  
Investigator. These two  
tables will later be joined  
to Suspect table through  
another table, File\_Case,  
which will be built in the  
seventh chapter. The

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Police\_Station has six columns: police\_station\_id (primary key), location, city, province, telephone, and photo. The Investigator has eight columns: investigator\_id (primary key), investigator\_name,

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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 ten, you will add two tables: Victim and Case\_File. The

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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,

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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

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Server using Java. In designing a  
GUI and as an IDE, you will make*

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*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*

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*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,*

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*and its tables. In chapter three, you will create a Login table. In this case, you will see how to create a Java GUI using NetBeans to implement it. In addition to the Login table, in this chapter you will also create a Client table. In the*

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*case of the Client table, you will learn how to generate and save public and private keys into a database. You will also learn how to encrypt / decrypt data and save the results into a database. In chapter four, you will create an Account*



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*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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*digital\_signature, and signature\_verification. In this case, you will learn how to implement generating and verifying digital prints and storing the results into a database. In chapter five, you create a table named Client\_Data,*

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*which has seven columns:  
client\_data\_id (primary key),  
account\_id (primary\_key),  
birth\_date, address, mother\_name,  
telephone, and photo\_path. In  
chapter six, you will be taught how  
to create a SQL Server database,*

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*named Crime, and its tables. In chapter seven, you will be taught how to extract image features, utilizing BufferedImage class, in Java GUI. In chapter eight, you will be taught to create Java GUI to view, edit, insert, and delete Suspect*

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*table data. This table has eleven columns: suspect\_id (primary key), suspect\_name, birth\_date, case\_date, report\_date, suspect\_status, arrest\_date, mother\_name, address, telephone, and photo. In chapter nine, you will be taught to*

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*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.*

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*In chapter ten, you will add two tables: Police\_Station and Investigator. These two tables will later be joined to Suspect table through another table, File\_Case, which will be built in the seventh chapter. The Police\_Station has six*

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*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,*



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*telephone, and photo. Here, you will design a Java GUI to display, edit, fill, and delete data in both tables. In chapter eleven, you will add two tables: Victim and File\_Case. The File\_Case table will connect four other tables: Suspect,*

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*Police\_Station, Investigator and Victim. The Victim table has nine columns: victim\_id (primary key), victim\_name, crime\_type, birth\_date, crime\_date, gender, address, telephone, and photo. The File\_Case has seven columns:*

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*file\_case\_id (primary key),  
suspect\_id (foreign key),  
police\_station\_id (foreign key),  
investigator\_id (foreign key),  
victim\_id (foreign key), status, and  
description. Here, you will also  
design a Java GUI to display, edit,*

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*fill, and delete data in both tables.  
Finally, this book is hopefully  
useful and can improve database  
programming skills for every  
Java/MariaDB/SQL Server  
programmer.*

*Until now, design patterns for the*

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*MapReduce framework have been scattered among various research papers, blogs, and books. This handy guide brings together a unique collection of valuable MapReduce patterns that will save you time and effort regardless of*

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*the domain, language, or development framework you're using. Each pattern is explained in context, with pitfalls and caveats clearly identified to help you avoid common design mistakes when modeling your big data*

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and grouping data Filtering  
patterns: view data subsets such as  
records generated from one user  
Data organization patterns:  
reorganize data to work with other  
systems, or to make MapReduce*



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analyze different datasets together  
to discover interesting relationships  
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*developers, data architects), Java developers (JDBC, SQLJ, J2EE, and OR Mapping frameworks), and to the emerging Web Services assemblers. Describes pragmatic solutions, advanced database applications, as well as provision of a wealth of code samples. Addresses programming*

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*clear brief, and directly to the example that implements the discussion. Beginner learners who want to learn through this book should not be afraid of losing understanding of the programming concepts, because this book in detail discusses the concepts of Java*

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*CHAPTER 1 : This chapter will give you brief and clear introduction about how to create desktop application using Java GUI starting from how to setup your environments, create your first project, understand various control*

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*for your form, and understand how to interact with your form using event handling. CHAPTER 2 : This chapter will discuss clearly about the concept and the implementatiton of data types and variables in Java GUI. CHAPTER 3 : This chapter will discuss in detail about how to make*

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*decisions or deal with a condition in the program. This chapter is the first step to deeper understanding of logics in programming. This chapter specifically discusses relational operators and logical operators, if statements, if-else statements, and switch-case statements, and how to*

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*implement all of these conditional statements using Java GUI.*

*CHAPTER 4 : This chapter will discuss in detail the looping statements in Java including for statement, while statement, do-while statement, break statement, and continue statement. All of these*

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*looping statements will be  
implemented using Java GUI.*

*CHAPTER 5 : This chapter will  
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codes based on their functionality.  
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step for programmers to learn how to  
create efficient program code. This*

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*chapter will discuss in detail the basics of methods, methods with return values, how to pass parameters to methods, how to overload your methods, and how to make recursive methods. CHAPTER 6 : This chapter will discuss in detail how to create and use arrays, read*



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*and write file operations, and how to display data stored in arrays or files in graphical form. CHAPTER 7 : This chapter will discuss in detail the basics of MySQL, how to access databases using JDBC and MySQL, and how to perform CRUD operations using JDBC and MySQL.*

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*CHAPTER 8 : In this chapter we will discuss more about Java GUI programming. This chapter will discuss in detail about how to make a program that consists of multi forms, how to create MDI application, and how to create report using iReport with data stored in a database.*

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*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 the first chapter, you will learn:*

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*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 the third chapter, you will learn:  
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*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*

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