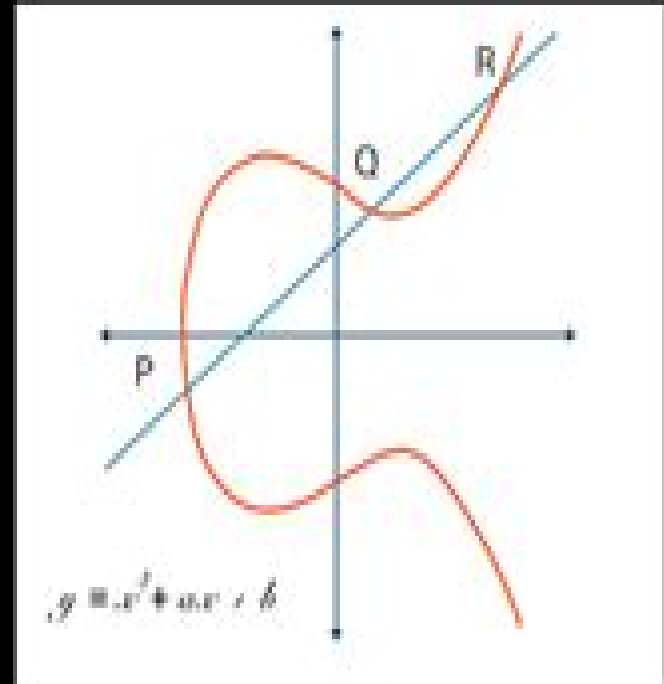# Understanding Elliptic Curve Cryptography

metaschool

Elliptic Curve Cryptography Matlab Manual

Raffaela Di Napoli

Elliptic Curve Cryptography Matlab Manual:

The Quick Tutorial to Learn Database Programming Using Python GUI with MariaDB and PostgreSQL Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-15 In this book you will create two MariaDB and PostgreSQL driven projects using PyQt The step by step guide in this book is expected to help the reader s confidence to become a programmer who can solve database programming problems A progressive project is provided to demonstrate how to apply the concepts of MariaDB and PostgreSQL using Python In second chapter you will learn PyQt that consists of a number of Python bindings for cross platform applications that combine all the strengths of Qt and Python By using PyQt you can include all Qt libraries in Python code so you can write GUI applications in Python In other words you can use PyQt to access all the features provided by Qt through Python code Because PyQt depends on the Qt libraries at run time you need to install PyQt In third chapter you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In fourth chapter you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In this chapter you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter five you will create dan configure PotgreSQL database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_ status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter six you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have a VARCHAR data type 200 You will also create GUI to display edit insert and delete for this table In chapter seven you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In chapter eight you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well   *The Fast Tutorial to Learn Database Programming Using Python GUI with Access and SQL Server* Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-15 This book covers microsoft acces and SQL Server based GUI programming using pyqt Intentionally designed for various levels of interest and ability of learners

this book is suitable for students engineers and even researchers in a variety of disciplines No advanced programming experience is needed and only a few school level programming skill are needed In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In third chapter you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In fourth chapter you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will create dan configure database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_ status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter seven you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have VARBINARY MAX data type You will also create GUI to display edit insert and delete for this table In chapter eight you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In the last chapter you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well *A PROGRESSIVE TUTORIAL TO DATABASE PROGRAMMING WITH PYTHON GUI AND POSTGRESQL* Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-03 In this book you will create two desktop applications using Python GUI and PostgreSQL This book is a Python PostgreSQL version of the Python MySQL book which was written by the author What underlies the writing

of this book is the growing popularity of the PostgreSQL database server lately and more and more programmers migrating from MySQL to PostgreSQL In this book you will learn to build a school database project step by step A number of widgets from PyQt will be used for the user interface In the first and second chapter you will get introduction of postgresql And then you will learn querying data from the postgresql using Python including establishing a database connection creating a statement object executing the query processing the resultset object querying data using a statement that returns multiple rows querying data using a statement that has parameters inserting data into a table using Python updating data in postgresql database using Python calling postgresql stored function using Python deleting data from a postgresql table using Python and postgresql Python transaction In the fourth chapter you will study Creating the initial three table in the School database project Teacher table Class table and Subject table Creating database configuration files Creating a Python GUI for viewing and navigating the contents of each table Creating a Python GUI for inserting and editing tables and Creating a Python GUI to merge and query the three tables In chapter five you will learn Creating the main form to connect all forms Creating a project that will add three more tables to the school database the Student table the Parent table and the Tuition table Creating a Python GUI to view and navigate the contents of each table Creating a Python GUI for editing inserting and deleting records in each table Create a Python GUI to merge and query the three tables and all six tables In chapter six 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 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   PART 1 - 3: STEP BY STEP TUTORIAL: JAVA/MYSQL With Object-Oriented Programming Using Apache NetBeans IDE Vivian Siahaan,Rismon Hasiholan Sianipar,2023-02-11 PART 1 This book uses six tables in the Sakila sample database which is a fictitious database designed to represent a DVD rental store The database consists of 15 tables including film film_category actor customer rental payment and inventory among

others The Sakila sample database is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth In this book as part 1 you will develop step by step tutorial object oriented programming and Java GUI using NetBeans to implement the first six tables in sakila database actor language film category film_category and film_actor tables PART 2 The sakila database consists of 15 tables including film film_category actor customer rental payment and inventory among others The sakila sample database which is a fictitious database designed to represent a DVD rental store is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Our previous book part 1 implements the first six tables in sakila database actor language film category film_category and film_actor tables This book as second part uses five tables in the sakila sample database country city address store and staff tables PART 3 Our books part 1 and part 2 had been published implementing the first eleven tables in sakila database actor language film category film_category film_actor country city address store and staff tables This book as part 3 develops step by step object oriented programming and Java GUI tutorial using NetBeans to implement the remaining four tables customer inventory rental and payment in the Sakila sample database which is a fictitious database designed to represent a DVD rental store   *STEP BY STEP TUTORIAL: JAVA/MYSQL With Object-Oriented Programming Using Apache NetBeans IDE PART 3* Vivian Siahaan,Rismon Hasiholan Sianipar,2023-02-08 The sakila database consists of 15 tables including film film_category actor customer rental payment and inventory among others The sakila sample database which is a fictitious database designed to represent a DVD rental store is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Our books part 1 and part 2 had been published implementing the first eleven tables in sakila database actor language film category film_category film_actor country city address store and staff tables This book as part 3 develops step by step object oriented programming and Java GUI tutorial using NetBeans to implement the remaining four tables customer inventory rental and payment in the Sakila sample database which is a fictitious database designed to represent a DVD rental store   STEP BY STEP TUTORIAL: Java/MySQL with Object-Oriented Programming Using Apache NetBeans IDE PART 1 Vivian Siahaan,Rismon Hasiholan Sianipar,2023-01-22 This book uses six tables in the Sakila sample database which is a fictitious database designed to represent a DVD rental store The database consists of 15 tables including film film_category actor customer rental payment and inventory among others The Sakila sample database is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth In this book as part 1 you will develop step by step tutorial object oriented programming and Java GUI using NetBeans to implement the first six tables in sakila database actor language film category film_category and film_actor tables   **STEP BY STEP TUTORIAL: JAVA/MYSQL With Object-Oriented Programming Using Apache NetBeans IDE PART 2** Vivian Siahaan,Rismon Hasiholan Sianipar,2023-01-30 The sakila database consists of 15 tables including film film_category actor customer rental payment and inventory among others The sakila sample database which is

a fictitious database designed to represent a DVD rental store is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Our previous book part 1 implements the first six tables in sakila database actor language film category film_category and film_actor tables This book as second part uses five tables in the sakila sample database country city address store and staff tables **STEP BY STEP TUTORIAL: SQL SERVER FOR DATA SCIENCE WITH PYTHON GUI** Vivian Siahaan,Rismon Hasiholan Sianipar,2022-11-13 This book uses the SQL SERVER 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 SQL SERVER 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 **The Best Tutorial to Learn Database Programming with Java GUI, MariaDB, and SQL Server** Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-08 This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of MariaDB and SQL Server databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to MariaDB and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren t getting the most from MariaDB and SQL Server As you would expect this book shows how to build from scratch two different databases MariaDB and SQL Server using Java In designing a GUI and as an IDE you will make use of the NetBeans tool In chapter one you will learn the basics of cryptography using Java Here you will learn how to write a Java program to count Hash MAC Message Authentication Code store keys in a KeyStore generate PrivateKey and PublicKey encrypt decrypt data and generate and verify digital prints You will also learn how to create and store salt passwords and verify them In chapter two you will create a PostgreSQL database named Bank and its tables In chapter three

you will create a Login table In this case you will see how to create a Java GUI using NetBeans to implement it In addition to the Login table in this chapter you will also create a Client table In the case of the Client table you will learn how to generate and save public and private keys into a database You will also learn how to encrypt decrypt data and save the results into a database In chapter four you will create an Account table This account table has the following ten fields account_id primary key client_id 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 five you create a table named Client_Data which has seven columns client_data_id primary key account_id primary_key birth_date address mother_name telephone and photo_path In chapter six you will be taught how to create a SQL Server database named Crime and its tables In chapter seven you will be taught how to extract image features utilizing BufferedImage class in Java GUI In chapter eight you will be taught to create Java GUI to view edit insert and delete Suspect table data This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_ status arrest_date mother_name address telephone and photo In chapter nine you will be taught to create Java GUI to view edit insert and delete Feature_Extraction table data This table has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 In chapter ten you will add two tables Police_Station and Investigator These two tables will later be joined to Suspect table through another table File_Case which will be built in the seventh chapter The Police_Station has six columns police_station_id primary key location city province telephone and photo The Investigator has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo Here you will design a Java GUI to display edit fill and delete data in both tables In chapter eleven you will add two tables Victim and File_Case The File_Case table will connect four other tables Suspect Police_Station Investigator and Victim The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The File_Case has seven columns file_case_id primary key suspect_id foreign key police_station_id foreign key investigator_id foreign key victim_id foreign key status and description Here you will also design a Java GUI to display edit fill and delete data in both tables Finally this book is hopefully useful and can improve database programming skills for every Java MariaDB SQL Server programmer **Step by Step Tutorial IMAGE CLASSIFICATION Using Scikit-Learn, Keras, And TensorFlow with PYTHON GUI** Vivian Siahaan,2023-06-21 In this book implement deep learning based image classification on classifying monkey species recognizing rock paper and scissor and classify airplane car and ship using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify monkey species using 10 Monkey Species dataset provided by Kaggle https www kaggle com slothkong 10 monkey species download Here s an overview of the steps involved in classifying monkey species

using the 10 Monkey Species dataset Dataset Preparation Download the 10 Monkey Species dataset from Kaggle and extract the files The dataset should consist of separate folders for each monkey species with corresponding images Load and Preprocess Images Use libraries such as OpenCV to load the images from the dataset Resize the images to a consistent size e g 224x224 pixels to ensure uniformity Split the Dataset Divide the dataset into training and testing sets Typically an 80 20 or 70 30 split is used where the larger portion is used for training and the smaller portion for testing the model s performance Label Encoding Encode the categorical labels monkey species into numeric form This step is necessary to train a machine learning model as most algorithms expect numerical inputs Feature Extraction Extract meaningful features from the images using techniques like deep learning or image processing algorithms This step helps in representing the images in a format that the machine learning model can understand Model Training Use libraries like TensorFlow and Keras to train a machine learning model on the preprocessed data Choose an appropriate model architecture in this case MobileNetV2 Model Evaluation Evaluate the trained model on the testing set to assess its performance Metrics like accuracy precision recall and F1 score can be used to evaluate the model s classification performance Predictions Use the trained model to make predictions on new unseen images Pass the images through the trained model and obtain the predicted labels for the monkey species In chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize rock paper and scissor using dataset provided by Kaggle https www kaggle com sanikamal rock paper scissors dataset download Here s the outline of the steps Step 1 Dataset Preparation Download the rock paper scissors dataset from Kaggle by visiting the provided link and clicking on the Download button Save the dataset to a local directory on your machine Extract the downloaded dataset to a suitable location This will create a folder containing the images for rock paper and scissors Step 2 Data Preprocessing Import the required libraries TensorFlow Keras NumPy OpenCV and Pandas Load the dataset using OpenCV Iterate through the image files in the dataset directory and use OpenCV s cv2 imread function to load each image You can specify the image s file extension e g PNG and directory path Preprocess the images Resize the loaded images to a consistent size using OpenCV s cv2 resize function You may choose a specific width and height suitable for your model Prepare the labels Create a list or array to store the corresponding labels for each image rock paper or scissors This can be done based on the file naming convention or by mapping images to their respective labels using a dictionary Step 3 Model Training Create a convolutional neural network CNN model using Keras Define a CNN architecture using Keras Sequential model or functional API This typically consists of convolutional layers pooling layers and dense layers Compile the model Specify the loss function e g categorical cross entropy and optimizer e g Adam using Keras compile function You can also define additional metrics to evaluate the model s performance Train the model Use Keras fit function to train the model on the preprocessed dataset Specify the training data labels batch size number of epochs and validation data if available This will optimize the model s weights based on the provided dataset Save the trained model Once the model

training is complete you can save the trained model to disk using Keras save or save_weights function This allows you to load the model later for predictions or further training Step 4 Model Evaluation Evaluate the trained model Use Keras evaluate function to assess the model s performance on a separate testing dataset Provide the testing data and labels to calculate metrics such as accuracy precision recall and F1 score This will help you understand how well the model generalizes to new unseen data Analyze the model s performance Interpret the evaluation metrics and analyze any potential areas of improvement You can also visualize the confusion matrix or classification report to gain more insights into the model s predictions Step 5 Prediction Use the trained model for predictions Load the saved model using Keras load_model function Then pass new unseen images through the model to obtain predictions Preprocess these images in the same way as the training images resize normalize etc Visualize and interpret predictions Display the predicted labels alongside the corresponding images to see how well the model performs You can use libraries like Matplotlib or OpenCV to show the images and their predicted labels Additionally you can calculate the accuracy of the model s predictions on the new dataset In chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify airplane car and ship using Multiclass image dataset airplane car ship dataset provided by Kaggle https www kaggle com abtabm multiclassimagedatasetairplanecar Here are the outline steps Import the required libraries TensorFlow Keras Scikit Learn OpenCV Pandas NumPy Load and preprocess the dataset Read the images from the dataset folder Resize the images to a fixed size Store the images and corresponding labels Split the dataset into training and testing sets Split the data and labels into training and testing sets using a specified ratio Encode the labels Convert the categorical labels into numerical format Perform one hot encoding on the labels Build MobileNetV2 model using Keras Create a sequential model Add convolutional layers with activation functions Add pooling layers for downsampling Flatten the output and add dense layers Set the output layer with softmax activation Compile and train the model Compile the model with an optimizer and loss function Train the model using the training data and labels Specify the number of epochs and batch size Evaluate the model Evaluate the trained model using the testing data and labels Calculate the accuracy of the model Make predictions on new images Load and preprocess a new image Use the trained model to predict the label of the new image Convert the predicted label from numerical format to categorical **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 **HOUSE PRICE: ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON** Vivian Siahaan,Rismon Hasiholan Sianipar,2022-02-20 The dataset used in this project is taken from the second chapter of Aur lien G ron s recent book Hands On Machine learning with Scikit Learn and TensorFlow It serves as an excellent introduction to implementing machine learning algorithms because it requires rudimentary data cleaning has an easily understandable list of variables and sits at an optimal size between being to toyish and too cumbersome The data contains information from the 1990 California census Although it may not help you with predicting current housing prices like the Zillow Zestimate dataset it does provide an accessible introductory dataset for teaching people about the basics of machine learning The data pertains to the houses found in a given California district and some summary stats about them based on the 1990 census data Be warned the data aren t cleaned so there are some preprocessing steps required The columns are as follows longitude latitude housing_median_age total_rooms total_bedrooms population households median_income median_house_value and ocean_proximity The machine learning models used in this project used to perform regression on median_house_value and to predict it as target variable are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM classifier Gradient Boosting XGB classifier and MLP classifier Finally you will plot boundary decision distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy FOUR PROJECTS: PREDICTION AND FORECASTING USING MACHINE LEARNING WITH PYTHON Vivian Siahaan,Rismon Hasiholan Sianipar,2022-05-25 PROJECT 1 GOLD PRICE ANALYSIS AND FORECASTING USING MACHINE LEARNING WITH PYTHON The challenge of this project is to accurately predict the future adjusted closing price of Gold ETF across a given period of time in the future The problem is a regression problem because the output value which is the adjusted closing price in this project is continuous value Data for this study is collected from November 18th 2011 to January 1st 2019 from various sources The data has 1718 rows in total and 80 columns in total Data for attributes such as Oil Price Standard and Poor s S Blast Furnace Slag component 2 Fly Ash component 3 Water component 4 Superplasticizer component 5 Coarse Aggregate Fine Aggregate component 7 Age and Concrete compressive

strength To perform regression on concrete compressive strength you will use Linear Regression Random Forest regression Decision Tree regression Support Vector Machine regression Na ve Bayes regression K Nearest Neighbor regression Adaboost regression Gradient Boosting regression Extreme Gradient Boosting regression Light Gradient Boosting regression Catboost regression and MLP regression To perform clustering you will use K Means algorithm The machine learning models used predict clusters as target variable are K Nearest Neighbor classifier Random Forest classifier Naive Bayes classifier Logistic Regression classifier Decision Tree classifier Support Vector Machine classifier LGBM classifier Gradient Boosting classifier XGB classifier and MLP classifier Finally you will plot boundary decision distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy PROJECT 4 DATA SCIENCE FOR SALES ANALYSIS FORECASTING CLUSTERING AND PREDICTION WITH PYTHON The dataset used in this project is from Walmart which is a renowned retail corporation that operates a chain of hypermarkets Walmart has provided a data combining of 45 stores including store information and monthly sales The data is provided on weekly basis Walmart tries to find the impact of holidays on the sales of store For which it has included four holidays weeks into the dataset which are Christmas Thanksgiving Super bowl Labor Day In this project you are going to analyze forecast weekly sales perform clustering and predict the resulting clusters The dataset covers sales from 2010 02 05 to 2012 11 01 Following are the attributes in the dataset Store the store number Date the week of sales Weekly_Sales sales for the given store Holiday_Flag whether the week is a special holiday week 1 Holiday week 0 Non holiday week Temperature Temperature on the day of sale Fuel_Price Cost of fuel in the region CPI Prevailing consumer price index and Unemployment Prevailing unemployment rate To perform regression on weekly sales you will use Linear Regression Random Forest regression Decision Tree regression Support Vector Machine regression Na ve Bayes regression K Nearest Neighbor regression Adaboost regression Gradient Boosting regression Extreme Gradient Boosting regression Light Gradient Boosting regression Catboost regression and MLP regression To perform clustering you will use K Means algorithm The machine learning models used predict clusters as target variable are K Nearest Neighbor classifier Random Forest classifier Naive Bayes classifier Logistic Regression classifier Decision Tree classifier Support Vector Machine classifier LGBM classifier Gradient Boosting classifier XGB classifier and MLP classifier Finally you will plot boundary decision distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy *THREE PROJECTS: SQL SERVER AND PYTHON GUI FOR DATA ANALYSIS* Vivian Siahaan,Rismon Hasiholan Sianipar,2022-11-08 PROJECT 1 FULL SOURCE CODE SQL SERVER FOR STUDENTS AND DATA SCIENTISTS WITH PYTHON GUI In this project we provide you with the SQL SERVER 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 PROJECT 2 FULL SOURCE CODE SQL SERVER FOR DATA ANALYTICS AND VISUALIZATION WITH PYTHON GUI This book uses SQL SERVER version of MySQL based Sakila sample database It is a fictitious database designed to represent a DVD rental store The tables of the database include film film_category actor customer rental payment and inventory among others The Sakila sample database is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Detailed information about the database can be found on website https dev mysql com doc index other html In this project you will develop GUI using PyQt5 to read SQL SERVER database and every table in it read every actor in actor table read every film in films table plot case distribution of film release year film rating rental duration and categorize film length plot rating variable against rental_duration variable in stacked bar plots plot length variable against rental_duration variable in stacked bar plots read payment table plot case distribution of Year Day Month Week and Quarter of payment plot which year month week days of week and quarter have most payment amount read film list by joining five tables category film_category film_actor film and actor plot case distribution of top 10 and bottom 10 actors plot which film title have least and most sales plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue customers plot which customer have least and most overdue days plot which store have most sales plot average payment amount by month with mean and EWM and plot payment amount over June 2005 PROJECT 3 ZERO TO MASTERY THE COMPLETE GUIDE TO LEARNING SQL SERVER AND DATA SCIENCE WITH PYTHON GUI 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   SUPERMARKET SALES ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-04-15 The dataset used in this project consists of the growth of supermarkets with high market competitions in most populated cities The dataset is one of the historical sales of supermarket company which has recorded in 3 different branches for 3 months data Predictive data analytics methods are easy to apply with this dataset Attribute information in the dataset are as follows Invoice id Computer generated sales slip invoice identification number Branch Branch of supercenter 3 branches are available identified by A B and C City Location of supercenters Customer type Type of customers recorded by Members for customers using member card and Normal for without member card Gender Gender type of customer Product line General item categorization groups Electronic accessories Fashion accessories Food and beverages Health and beauty Home and lifestyle Sports and travel Unit price Price of each product in Quantity Number of products purchased by customer Tax 5% tax fee for customer buying Total Total price including tax Date Date of purchase Record available from January 2019 to March 2019 Time Purchase time 10am to 9pm Payment Payment used by customer for purchase 3 methods are available Cash Credit card and Ewallet COGS Cost of goods sold Gross margin percentage Gross margin percentage Gross income Gross income and Rating Customer stratification rating on their overall shopping experience On a scale of 1 to 10 In this project you will perform predicting rating using machine learning The machine learning models used in this project to predict clusters as target variable are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM Gradient Boosting XGB and MLP Finally you will plot boundary decision distribution of features feature

importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy   STUDENT ACADEMIC PERFORMANCE ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON Vivian Siahaan,Rismon Hasiholan Sianipar,2022-03-20 The dataset used in this project consists of student achievement in secondary education of two Portuguese schools The data attributes include student grades demographic social and school related features and it was collected by using school reports and questionnaires Two datasets are provided regarding the performance in two distinct subjects Mathematics mat and Portuguese language por In the two datasets were modeled under binary five level classification and regression tasks Important note the target attribute G3 has a strong correlation with attributes G2 and G1 This occurs because G3 is the final year grade issued at the 3rd period while G1 and G2 correspond to the 1st and 2nd period grades It is more difficult to predict G3 without G2 and G1 but such prediction is much more useful Attributes in the dataset are as follows school student s school binary GP Gabriel Pereira or MS Mousinho da Silveira sex student s sex binary F female or M male age student s age numeric from 15 to 22 address student s home address type binary U urban or R rural famsize family size binary LE3 less or equal to 3 or GT3 greater than 3 Pstatus parent s cohabitation status binary T living together or A apart Medu mother s education numeric 0 none 1 primary education 4th grade 2 5th to 9th grade 3 secondary education or 4 higher education Fedu father s education numeric 0 none 1 primary education 4th grade 2 5th to 9th grade 3 secondary education or 4 higher education Mjob mother s job nominal teacher health care related civil services e g administrative or police at_home or other Fjob father s job nominal teacher health care related civil services e g administrative or police at_home or other reason reason to choose this school nominal close to home school reputation course preference or other guardian student s guardian nominal mother father or other traveltime home to school travel time numeric 1 1 hour studytime weekly study time numeric 1 10 hours failures number of past class failures numeric n if 1   *FULL SOURCE CODE: SQLITE FOR STUDENTS AND PROGRAMMERS WITH PYTHON GUI* Vivian Siahaan,Rismon Hasiholan Sianipar,2022-07-26 In this project we provide you with a SQLITE 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 You can find the detailed structures of the database https www oracletutorial com getting started oracle sample database 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

FULL SOURCE CODE: PRACTICAL DATA SCIENCE WITH SQLITE AND PYTHON GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-08-08 In this project we provide you with the SQLite sample database named chinook The chinook sample database is a good database for practicing with SQL especially SQLite The detailed description of the database can be found on https www sqlitetutorial net sqlite sample database There are 11 tables in the chinook sample database 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   FOUR PROJECTS: MySQL and SQLite For Data Science with Python GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-06-29 PROJECT 1 SQLITE AND DATA SCIENCE QUERIES AND VISUALIZATION WITH PYTHON GUI In this project you will develop GUI with PyQt5 to utilize Push Button Combo Box Table Widget Line Edit and Widget read and create SQLite database and every table in it plot case distribution of film release year film rating rental duration and categorize film length plot rating variable against rental_duration variable in stacked bar plots plot length variable against rental_duration variable in stacked bar plots read payment table plot case distribution of Year Day Month Week and Quarter of payment plot which year month week days of week and quarter have most payment amount read film list by joining five tables category film_category film_actor film and

actor plot case distribution of top 10 and bottom 10 actors plot which film title have least and most sales plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue costumers plot which customer have least and most overdue days plot which store have most sales plot average payment amount by month with mean and EWM and plot payment amount over June 2005 This project uses the Sakila sample database which is a fictitious database designed to represent a DVD rental store The tables of the database include film film_category actor film_actor customer rental payment and inventory among others You can download the SQLite from https dev mysql com doc sakila en PROJECT 2 MYSQL AND DATA SCIENCE QUERIES AND VISUALIZATION WITH PYTHON GUI 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 film release year film rating rental duration and categorize film length plot rating variable against rental_duration variable in stacked bar plots plot length variable against rental_duration variable in stacked bar plots read payment table plot case distribution of Year Day Month Week and Quarter of payment plot which year month week days of week and quarter have most payment amount read film list by joining five tables category film_category film_actor film and actor plot case distribution of top 10 and bottom 10 actors plot which film title have least and most sales plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue costumers plot which customer have least and most overdue days plot which store have most sales plot average payment amount by month with mean and EWM and plot payment amount over June 2005 This project uses the Sakila sample database which is a fictitious database designed to represent a DVD rental store The tables of the database include film film_category actor film_actor customer rental payment and inventory among others You can download the MySQL from https dev mysql com doc sakila en PROJECT 3 MYSQL FOR DATA ANALYSIS AND VISUALIZATION WITH PYTHON GUI In this project you will use the Northwind database which 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 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 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 PROJECT 4 SQLITE FOR DATA ANALYSIS AND VISUALIZATION WITH PYTHON GUI In this project you will use SQLite version of Northwind database which 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 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 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 **FULL SOURCE CODE: POSTGRESQL AND DATA SCIENCE FOR PROGRAMMERS WITH PYTHON GUI** Vivian Siahaan,Rismon Hasiholan Sianipar,2022-09-19 This project uses the PostgreSQL version of MySQL based Sakila sample database which is a fictitious database designed to represent a DVD rental store The tables of the database include film film_category actor film_actor customer rental payment and inventory among others You can download the database from https dev mysql com doc sakila en 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 film release year film rating rental duration and categorize film length plot rating variable against rental_duration variable in stacked bar plots plot length variable against rental_duration variable in stacked bar plots read payment table plot case distribution of Year Day Month Week and Quarter of payment plot which year month week days of week and quarter have most payment amount read film list by joining five tables category film_category film_actor film and actor plot case distribution of top 10 and bottom 10 actors plot which film title have least and most sales plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue costumers plot which store have most sales plot average payment amount by month with mean and EWM and plot payment amount over June 2005

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