

Database Management Systems

02-Apr-2020

Embedded MySQL in Python

Contents

- We know the following
 - Creating a database
 - Creating tables
 - Placing constraints
 - Populating tables with data
 - Querying tables
 - Inserting/Deleting/Updating tables
 - Stored functions, procedures, triggers, events, cursors
 - Exception handling
- All these assume you are interaction with database system using a DBMS client
- In this guided self-study material, you will learn how to embed SQL statements into Python Programming Language

Python – Embedding MySQL statements

- Please read the following from the URL
<https://www.mysqltutorial.org/python-mysql>
- The main steps to interface with MySQL server from any application programming language are
 - Create the connector
 - Establish connection
 - Perform SQL tasks through application programming language such as insert, update, delete rows, & query
 - Destroy the connector

Python – Embedded MySQL statements

- Corresponding to each of the task listed in the previous slide, the tutorial walks you through the detailed worked out example of embedding MySQL statements
- Getting started with MySQL python connector
- Connecting to MySQL database
- Querying data from a table
- Inserting data into a table
- Updating data in a table
- Deleting data from a table
- Calling stored procedures
- Please go through each of the above task from the URL given in the previous slide

Embedded MySQL statements in C

- Please explore the manual pages of MySQL for the low level interfaces for C language given at <https://dev.mysql.com/doc/refman/5.7/en/libmysqld-example.html>
- In addition, you may also explore other connectors <https://dev.mysql.com/doc/refman/5.7/en/connectors-apis.html>
- Note: C, C++ and other connectors are **optional** for self study
- However I want you to be familiar with the Python connector