

Instructor Notes:

Lesson Objectives

- After completing this lesson, you will learn about:
 - Database Connectivity
 - Regular Expressions





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Instructor Notes:

Database Connectivity

- SQLite is a C library that provides a lightweight disk-based database that doesn't require a separate server process and allows accessing the database using a nonstandard variant of the SQL query language.
- Python has support for sqlite3 by default
- Support for :
 - Cursors
 - Exception handling e.g. OperationalError, IntegrityError etc
- Demo
 - Connecting to a database
 - CREATE
- INSERT
- SELECT
- DELETE
- DROP



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Demo of SQLite data base connectivity, CREATE, INSERT, SELECT, DELETE, DROP to be given

Instructor Notes:

Regular Expressions

- Regular expressions are a powerful language for matching text patterns.
- The Python "re" module provides regular expression support.
- import re
- Basic Patterns
 - a, X, 9, < -- ordinary characters just match themselves exactly.. (a period) -- matches any single character except newline '\n'
 - \w -- (lowercase w) matches a "word" character: a letter or digit or underbar [a-zA-Zo-9]. Note that although "word" is the mnemonic for this, it only matches a single word char, not a whole word. \W (upper case W) matches any non-word character.
 - \b -- boundary between word and non-word
 - \s (lowercase s) matches a single white space character space, newline, return, tab, form [\n\r\t\f]. \S (upper case S) matches any non-white space character.
- \t, \n, \r -- tab, newline, return
- \d -- decimal digit [0-9] (some older regex utilities do not support but \d, but they all support \w and \s)
- ^ = start, \$ = end -- match the start or end of the string
- \— inhibit the "specialness" of a character. So, for example, use \. to match a period or \\ to match a slash. If you are unsure if a character has special meaning, such as '@', you can put a slash in front of it, \@, to make sure it is treated just as a character.







