

\*\*\*\*\***Documentation of sqldump.py**\*\*\*\*\*

**Source file:** sqldump.py

**Scripting language:** python (Interpreter)

**Testing and development environment:**

Python Version: Python 2.7.10

OS: Linux [kernel: 4.2.0-16-generic] (ubuntu 15.10)

Date: 19th Dec 2016

Database: mysql Ver 14.14 Distrib 5.6.31, for debian-linux-gnu (x86\_64) using EditLine wrapper

**Summary:**

Creates the mysql database dump of all the databases present in the system.

**Algorithm:**

1. listing out the database names present in a PC and writing out to a file (dbList.txt).
2. Reading each line (except first line as it contains the line Database which is not a database but a dummy line) separately from the file [dbList.txt] for database names.

2.1 running the command:

[mysqldump \*database to be dumped\* > \*name\_of sql\_dump.sql with path (absolute or relative to home directory)\*]

**Implementation:**

1. Library imports:

1.1 os - system library

2. Methods used in source:

2.1. writeDatabases():

writes a list of databases present in the system to a file.

Seperate database names are written in seperate lines.

Statements:

open(filename.fileextension,'mode'):

opens the file name <filename.fileextension> in the <mode> mode  
supported file extensions: txt, bin, and almost all file extensions supported by  
Unix filesystem

possible modes for file:

'w' : write only mode

'r' : read only mode

'a' : write mode with append

close(filename.fileextension):

closes the <filename.fileextension> file irrespective of the mode in which it was opened

os.system('shell command'):

inbuilt method of python library to execute the 'shell command' shell commands from  
the python interpreter.

2.2. getDBName():

scans the lists of databases written to the files and calls the dumpdp() method for each line.

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possible modes for file:

'w' : write only mode

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enumerate(filename.txt):

python's inbuilt method to enumerate a file or directory/folders

### 2.3. dumpdb(dbname):

dumps the database named <dbname> to the dump named as dbname.sql

this method takes only the string arguments that is supposed to be a database name of the system.

statements:

os.system('shell command'):

inbuilt method of python library to execute the 'shell command' shell commands from the python interpreter.

### 2.4. main():

this method is executed at the very beginning.

all methods called from this methods are executed sequentially

\*\*\*\*\*END OF FILE\*\*\*\*\*