M101P – Mongo for Python Developers

**Homework 1.1**

***Download the files from the course, extract them, use mongorestore to import the data into your running mongod, and then follow their steps to prove you did it successfully.***

I extracted the files on my Windows PC, then uploaded them to the VM with Filezilla previously. Today I’m just finishing the videos and doing the homework, so importing is as follows:

vagrant@precise64:/opt/mongo101/week1$ cd hw1

vagrant@precise64:/opt/mongo101/week1/hw1$ ls

dump hw1-2.py hw1-3.py

vagrant@precise64:/opt/mongo101/week1/hw1$ mongorestore

connected to: 127.0.0.1

Mon Sep 16 18:39:35.134 dump/m101/funnynumbers.bson

Mon Sep 16 18:39:35.134 going into namespace [m101.funnynumbers]

100 objects found

Mon Sep 16 18:39:35.156 Creating index: { key: { \_id: 1 }, ns: "m101.funnynumbers", name: "\_id\_" }

Mon Sep 16 18:39:35.605 dump/m101/hw1.bson

Mon Sep 16 18:39:35.605 going into namespace [m101.hw1]

1 objects found

Mon Sep 16 18:39:35.617 Creating index: { key: { \_id: 1 }, ns: "m101.hw1", name: "\_id\_" }

vagrant@precise64:/opt/mongo101/week1/hw1$ mongo

MongoDB shell version: 2.4.6

connecting to: test

> use m101

switched to db m101

> show collections

funnynumbers

hw1

system.indexes

>

***Now, using the Mongo shell, perform a findone on the collection called*hw1*in the database*m101*. That will return one document. Please provide the value corresponding to the "answer" key from the document returned.***

vagrant@precise64:/opt/mongo101/week1/hw1$ mongo

MongoDB shell version: 2.4.6

connecting to: test

> use m101

switched to db m101

> show collections

funnynumbers

hw1

system.indexes

> db.hw1.findone()

Mon Sep 16 18:45:34.043 TypeError: Property 'findone' of object m101.hw1 is not a function

> db.hw1.findOne()

{

"\_id" : ObjectId("50773061bf44c220307d8514"),

"answer" : 42,

"question" : "The Ultimate Question of Life, The Universe and Everything"

}

>

***The answer is 42.***

***Homework 1.2***

***Get Pymongo installed on your computer. To prove its installed, run the program:***

***python hw1-2.py***

***This program will print a numeric answer. Please put just the number into the space below. Note that you will need to get MongoDB installed and the homework dataset imported from the previous homework before attempting this problem.***

I had previously installed PyMongo while watching the videos for Wk 1, so question #2 was as simple as copy and paste

vagrant@precise64:/opt/mongo101/week1/hw1$ python hw1-2.py

The answer to Homework One, Problem 2 is 1815

**The answer is 1815.**

**Homework 1.3**

***We are now going to test that you have bottle installed correctly and can run a bottle-based project. Run the hw1-3.py download as follows:***

***python hw1-3.py***

***It requires bottle to be installed correctly, your mongodb to be running, and that you have run mongorestore properly. From a different terminal window type the following from the command line: curl http://localhost:8080/hw1/50***

***Type the answer into the box below***

So, CURL wasn’t installed, so I had to install it. I had previously attempted to install Bottle during the videos for Week1, but wasn’t sure if it had been successful. Time to find out.

SUCCESS!! In my second terminal I installed CURL using sudo apt-get install curl, and once that completed, pasted the line required.

vagrant@precise64:~$ curl http://localhost:8080/hw1/50

53

The answer is 53.

As a note, I recommend using vagrant and building a precise64 system for this. It’s quick and easy to load and unload a nice linux Ubuntu system, and you can upload files quickly from a Windows machine by creating an upload folder inside your Vagrant folder for the VM.