Jordan Mitchell

11/2/2024

Professor Morris

First, you must verify access to the environment by starting up MongoDB and the mongo shell. Open the terminal application, which will bring up the Linux shell prompt. Complete the following:

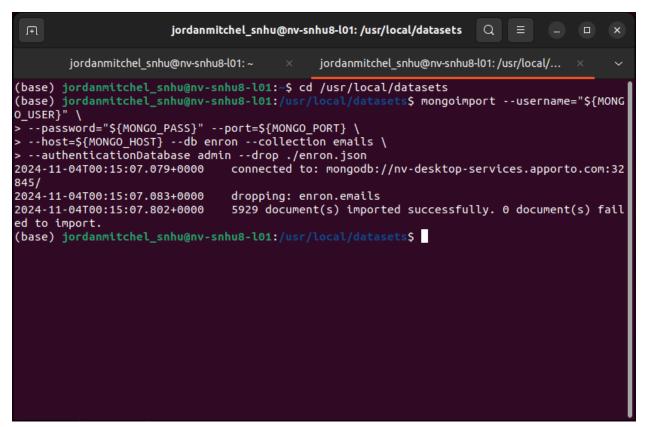
- Execute the mongo command to start the mongo shell. This will bring up the mongo shell prompt.
- Take a screenshot of the whole terminal window to verify your presence in the mongo shell. All of your screenshots must include your username, which is at the top of your terminal window.

```
mongosh mongodb://<credentials>@nv-desktop-services.ap...
     jordanmitchel snhu@nv-snhu8-l01: ~ ×
                                       mongosh mongodb://<credentials>@nv... ×
(base) jordanmitchel_snhu@nv-snhu8-l01:~$ mongosh
Current Mongosh Log ID: 672797b4781e8f42fd50797b
                        mongodb://<credentials>@nv-desktop-services.apporto.com:
Connecting to:
32845/?directConnection=true&appName=mongosh+1.8.0
Using MongoDB:
                       6.0.13
Using Mongosh:
                        1.8.0
For mongosh info see: https://docs.mongodb.com/mongodb-shell/
   The server generated these startup warnings when booting
   2024-11-03T14:32:40.973+00:00: Using the XFS filesystem is strongly recommend
ed with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodno
tes-filesystem
   2024-11-03T14:32:43.783+00:00: Failed to read /sys/kernel/mm/transparent huge
page/defrag
   2024-11-03T14:32:43.783+00:00: vm.max map count is too low
test>
```

You have been given a preloaded database containing email documents. Exit MongoDB and return to the Linux prompt. Using the database provided, execute the following administrative commands:

- Load the database by executing the following at the Linux command line in the terminal you opened:
- cd /usr/local/datasets

```
mongoimport --username="${MONGO_USER}" \
--password="${MONGO_PASS}" --port=${MONGO_PORT} \
--host=${MONGO_HOST} --db enron --collection emails \
--authenticationDatabase admin --drop ./enron.json
```

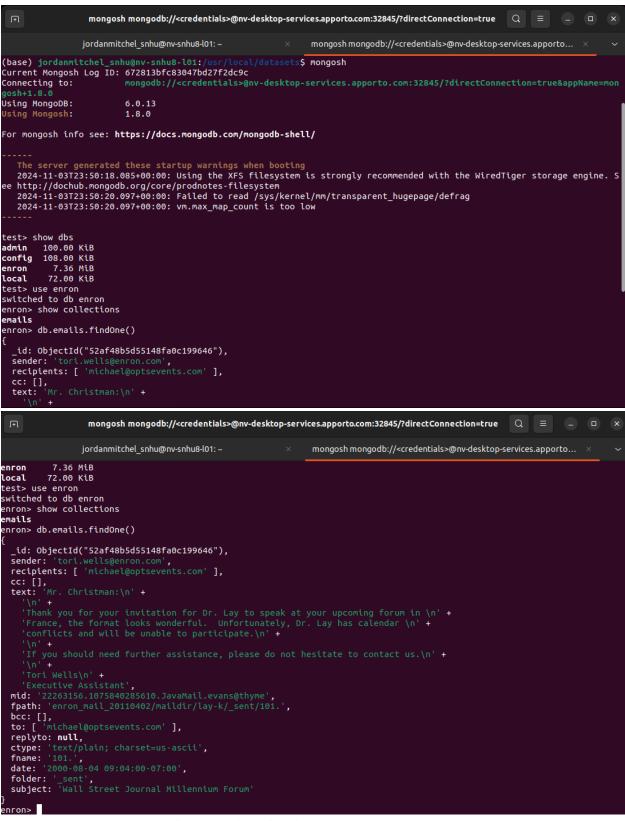


Retrieve a document from the collection by executing the following commands in the <u>mongo</u> <u>shell</u>. Take a screenshot to verify your execution of these commands. show dbs

#lists directory of databases

use enron #this sets db to the enron database show collections #lists directory of collections

db.emails.findOne() #retrieves a document from the emails collection

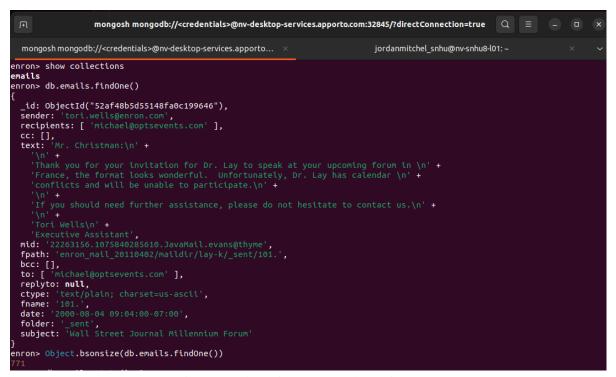


Execute the command to find the size of a single document of your choosing from the enron

database. Refer to <u>Two Ways to Get a Document's Size in MongoDB</u> or the textbook if you need help constructing this command. Take a screenshot to verify your execution of this command.

Note: For this command to work, you may need to activate compatibility with legacy versions of the mongo shell. You accomplish this by entering the following at the shell prompt:

snippet install mongocompat



Execute the command to find the size of the collection of documents in the enron database. Refer back to the Two Ways to Get a Document's Size in MongoDB article if you need help constructing this command. Take a screenshot to verify your execution of this command.

