|  |  |
| --- | --- |
| *school-learn-study-hat-graduate-512.png* | ***Study*** |

**Exercise 1:**

* Learn how to get the current hour of your computer
* Hint: Google “*python 3 get current hour*”

**Exercise 2:**

* Watch [this tutorial](https://www.youtube.com/playlist?list=PLFMKeQO-z8sO0F0MglV7mEeNw4LRXMOp5&disable_polymer=true) and learn how to use Matplotlib

|  |  |
| --- | --- |
| *6iporAnbT.jpg* | ***Serious exercises*** |

**Exercise 1:**

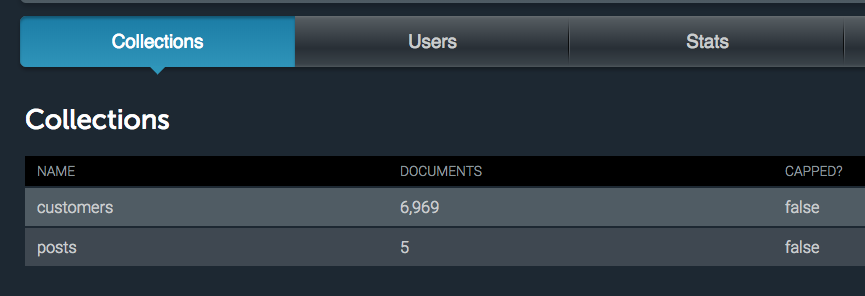
Modify the Gmail scripts (im\_sick.py) so that it will send your call-in-sick email only once after 7AM.

**Exercise 2:**

Connect to our class’s Mongo Database with this URI:

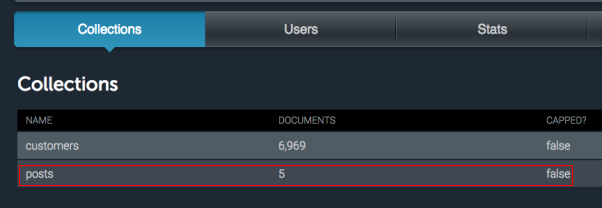
mongodb://admin:admin@ds021182.mlab.com:21182/c4e

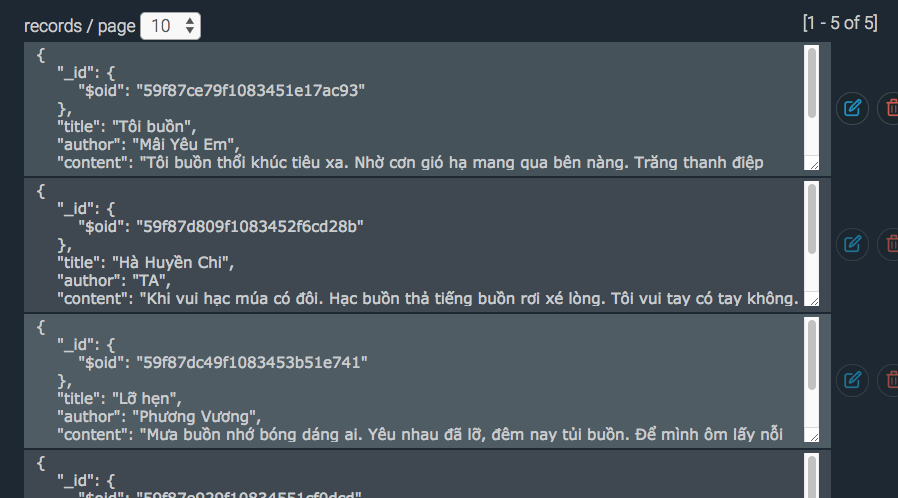
Inside this database, there are 2 collections, posts and customers which, respectively, will be used in **Exercise 3** and **4**

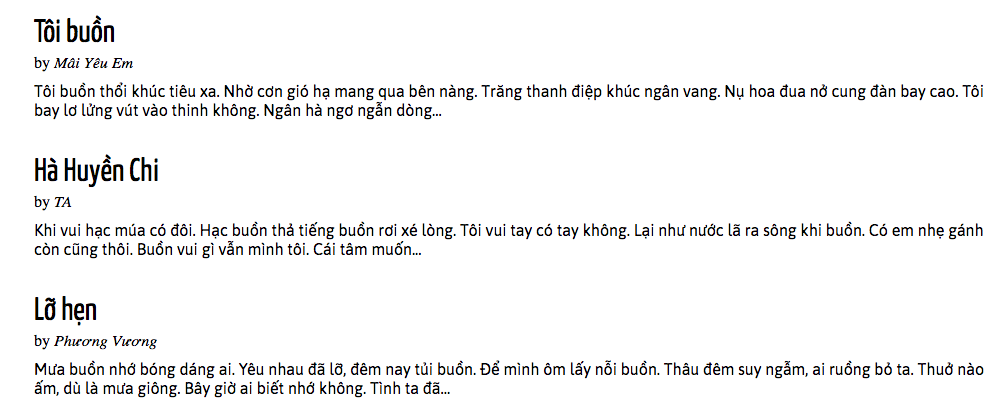


**Exercise 3:**

Open [this blog](https://c4e-blog.herokuapp.com/), you will see the posts are read and displayed from posts collections:





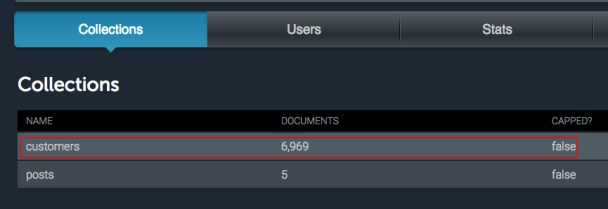


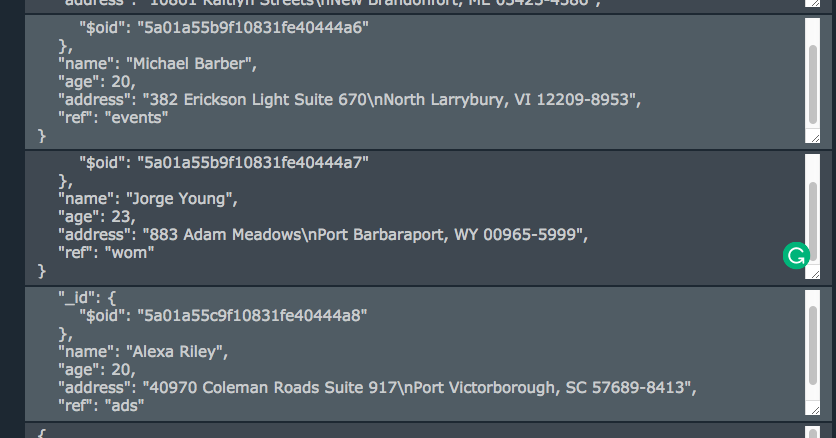
Now, it’s your job to **add** a post to this collection. Do it and refresh [the blog](https://c4e-blog.herokuapp.com/), if your adding works, you should see your new post in the refreshed page.

Note: Leave your mark in your post, your name, what you think of our class and especially what you want to say to the next C4E classes to come :)

**Exercise 4:**

Inside customers collection is the data of 6969 customers of a marketing database.





It includes name, age, address and especially refs (references) - where the customers are acquired from: **events** held by the organization, **advertisements** or **word of mouth**.

* **Count** the number of customers group by refs
* Use MatPlotLib to **draw a pie chart** showing how much percentage of each reference