General Assembly Data Science Course – Case Interview Exercise

You've recently been hired to analyze a new app. The client has provided a json file with date and time stamps for logins (ga_hw_logins.json).

Assignment:

Step 1: Load the data from the json file into your python environment

Hints:
- Import the json package and use the json.loads function
    - http://stackoverflow.com/questions/12451431/loading-parsing-json-file-in-python

Step 2: Convert the strings into datetime objects and append them to a list

Hints:
- Use a for loop to iterate through each item from the json file
- Import the datetime package and use the datetime.datetime.strftime function to convert the string
    - http://stackoverflow.com/questions/466345/converting-string-into-datetime/466376#466376
    - https://docs.python.org/2/library/datetime.html?highlight=datetime.strptime#strftime-and-strptime-behavior

Extra Credit:
Using python, create a sqlite3 database and upload the data into the database. Then query the data to find the date and hour with the most logins.

Hints:
- Import sqlite package to get python functions for working with sqlite databases
    - https://docs.python.org/2/library/sqlite3.html
- Use the group by feature in SQL queries