1. Upload the Austin Animal Center Outcomes data set into MongoDB by **inserting a CSV file using the appropriate MongoDB import tool**. The data set is located in the Supporting Materials section. Complete the import using the mongoimport tool and **take screenshots** of both the import command and its execution.

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1. Create an administrator account and a user account in the mongo shell to ensure user authentication to the database and collection that was created. Be sure to take a screenshot of the mongo shell execution command screen that shows your login process with both accounts.

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1. Next, you must develop a Python module in a PY file, using object-oriented programming methodology, to enable **create** and **read** functionality for the database. To support code reusability, your Python code needs to be importable as a module by other Python scripts.  
     
   **Develop** a CRUD class that, when instantiated, provides the following functionality:
2. **A method that inserts a document into a specified MongoDB database and collection**

* Input -> argument to function will be set of key/value pairs in the data type acceptable to the MongoDB driver insert API call
* Return -> “True” if successful insert, else “False”

1. **A method that queries for documents from a specified MongoDB database and specified collection**

* Input -> arguments to function should be the key/value lookup pair to use with the MongoDB driver find API call
* Return -> result in cursor if successful, else MongoDB returned error message  
    
  Important: Be sure to use **find()** instead of **find\_one()** when developing your method.

1. **An Update method that queries for and changes document(s) from a specified MongoDB database and specified collection**

* Input -> arguments to function should be the key/value lookup pair to use with the MongoDB driver find API call. Last argument to function will be a set of key/value pairs in the data type acceptable to the MongoDB driver insert API call.
* Return -> result in JSON format if successful, else MongoDB returned error message.

1. **A Delete method that queries for and removes document(s) from a specified MongoDB database and specified collection**

* Input -> arguments to function should be the key/value lookup pair to use with the MongoDB driver find API call.
* Return -> result in JSON format if successful, else MongoDB returned error message.

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1. Finally, you must test your Python module to make sure that it works. To do this, **create a Python script that imports your CRUD Python module to call and test all instances of CRUD functionality**. This script should be created in a separate Jupyter Notebook (IPYNB) file, and should import and instantiate an object from your CRUD library to effect changes in MongoDB. Be sure to use the username and password for the “aacuser” account for authentication when instantiating the class. After creating your script, execute it in Jupyter Notebook and take screenshots of the commands and their execution.

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