CS-340-T3341 Client/Server Development

3-1 Milestone: Database Indexing and Authentication

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**Part I**

1. Text

   Description automatically generated with low confidenceBelow is the screenshot of my import of the animals collection. As noted previously, since I have experience with MongoDB I already have aliases setup for imports and various other tasks so I use my personal Atlas database to take make it easier to follow the materials in this course. As you can see below, I was able to import the csv file into the database.
2. Graphical user interface, text

   Description automatically generatedThe first screenshot shows the function where I created the index. As can be seen, I first tried to use the createIndex function with the explain option and it didn’t work. The second time I ran the function it worked by creating the breed\_1 index. The second and third screenshot shows the find function while being used with explain option. According the book the results shown are correct and exactly what should be shown.

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1. For the compound index exercise I actually created two indexes. The first compound index I created was for breed and outcome\_type where breed was the index prefix, meaning I have to provide a breed and then an outcome\_type. The second compound index was the same as the first I just created outcome\_type as the index prefix. The second only required that I provide an outcome\_type. I know it was not in the scope of the exercise but I included a count for both queries to show results were found on both indexes.

So the first screenshot shows the creation of the two indexes and the document count for each query. The remaining screenshots show the explain method results. It can be seen from the explain methods that both queries are referencing the indexes I created.

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**Part II**

1. This portion of the exercise I had to go to the Apporto session because creating a user through the mongosh cli is very difficult. I did this to show I understand and know how to create local admin and user accounts. The screenshot below proves that claim as can be seen. FYI: The remainder of this course I will use Apporto because what I thought was going to be easier actually turned out to be more of a pain.

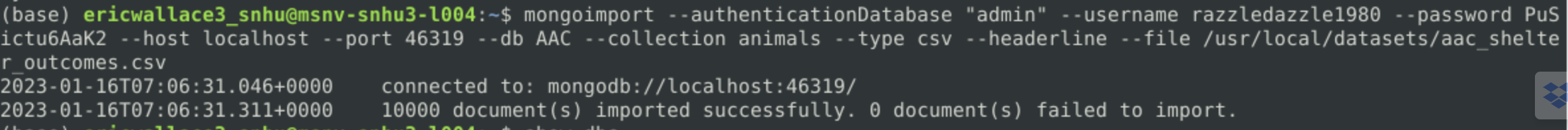
Graphical user interface, text

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1. Text

   Description automatically generatedThe screenshot below shows the successful login to the local database using authentication. It also shows the starting and stopping of the Mongo services.
2. Text

   Description automatically generated with low confidenceBelow is a screenshot of the creation of a new user aacuser and assign it the role of readWrite with a generated password to which I have saved for later use.
3. Below is proof that I was able to login with both the admin user and the aacuser. It also shows that each user has access to the AAC database. The screenshot also includes the previously shown create user. Since I created the database and imported the csv file using the Atlas account the screenshot below the first screenshot is the confirmation of importing the csv file into the database.

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