# Part 1: Importing and Indexing a Dataset

1. Upload the Austin Animal Center Outcomes data set into database ‘AAC’ into the MongoDB

A screenshot of a computer program

Description automatically generated

1. Create Simple Index on the key ‘Breed’. Show Example Query. Use Explain function to verify the Index is used.

[Create Simple Index] A screenshot of a computer program

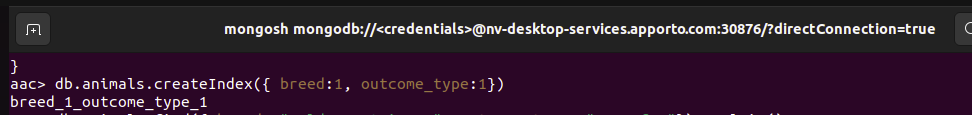
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[Example Query with Explain Command demonstrating Index Usage] A screenshot of a computer program

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1. Create a compound index that will improve the performance of queries looking for breeds that have an ‘outcome\_type’ of ‘Transfer’.

[Compound Index Creation]



[Example Query with Explain Command demonstrating Index Usage]

*Notes*: Discovered my generic query didn’t use my new index…

A screenshot of a computer program

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So, out of curiosity I checked if Golden Retrievers were in the database…they aren’t!

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So then I searched with something that was…

A screenshot of a computer screen

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# Part 2: User Authentication

1. Create a new user account called ‘aacuser’

[User Creation]

A screenshot of a computer program

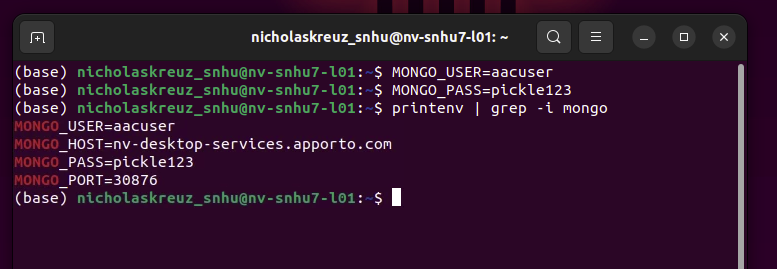
Description automatically generated

[Screenshot of login commands for ‘admin’ user with db.runCommand({connectionStatus:1}]

A screenshot of a computer screen

Description automatically generated

[environment variable change]



[Screenshot of login commands for ‘aacuser’ user with db.runCommand({connectionStatus:1}]

A screenshot of a computer screen

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