**Part I: Importing and Indexing a Data Set**

In Apporto, open the terminal window to access the Linux shell. Upload the Austin Animal Center (AAC) Outcomes data set into MongoDB by **importing a CSV file using the appropriate MongoDB import tool**. Use the database name “AAC” and collection name “animals.”

A screenshot of a computer

Description automatically generated

After importing your data set, open the mongo shell. **Create a simple index** on the key “breed.” Show an example query using this index, and use the **explain function** to verify that the index will be used.

A screenshot of a computer screen

Description automatically generated

**Create a compound index** that will improve the performance of queries looking for breeds that have an “outcome\_type” of “Transfer.” Show an example query using this compound index, and use the **explain function** to confirm the index will be used.

A screenshot of a computer program

Description automatically generated

A screenshot of a computer screen

Description automatically generated

A screenshot of a computer screen

Description automatically generated

**Part II: User Authentication**

**Create a new user account called “aacuser”** for the database AAC in the mongo shell.

A screenshot of a computer screen

Description automatically generated

**Take a screenshot** of your login process to MongoDB using the mongo shell. Be sure you can access MongoDB and list the databases using both the admin and aacuser accounts.

A screenshot of a computer

Description automatically generated

When you have successfully attached to your MongoDB instance with mongosh, use the following command to verify that you have connected as a specific user:

db.runCommand({connectionStatus:1})

A screenshot of a computer screen

Description automatically generated