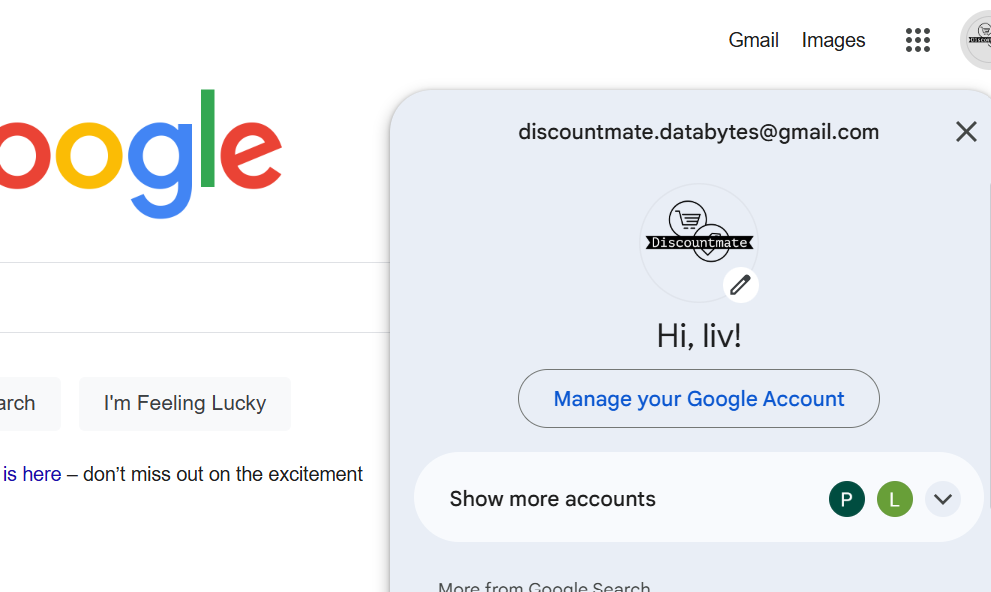
# How to use MongoDb Atlas

These instructions are about how I used MongoDb Atlas to load my data which was collected through a python script on Google Collab. It can be used to learn how to use MongoDb Atlas.

I learned this information from my seniors, experimenting and through YouTube e.g. <https://www.youtube.com/watch?v=daMxiBS0odk&t=841s&ab_channel=SAIKUMARREDDY>

## Instructions:

1. Login to the DiscountMate Gmail account:



Gmail: discountmate.databytes@gmail.com

Password: discountmatedatabytes1@

1. Go to the MongoDb Atlas website, and login via gmail.

Currently the login link is <https://account.mongodb.com/account/login?nds=true>

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1. Click on ‘Database Access’

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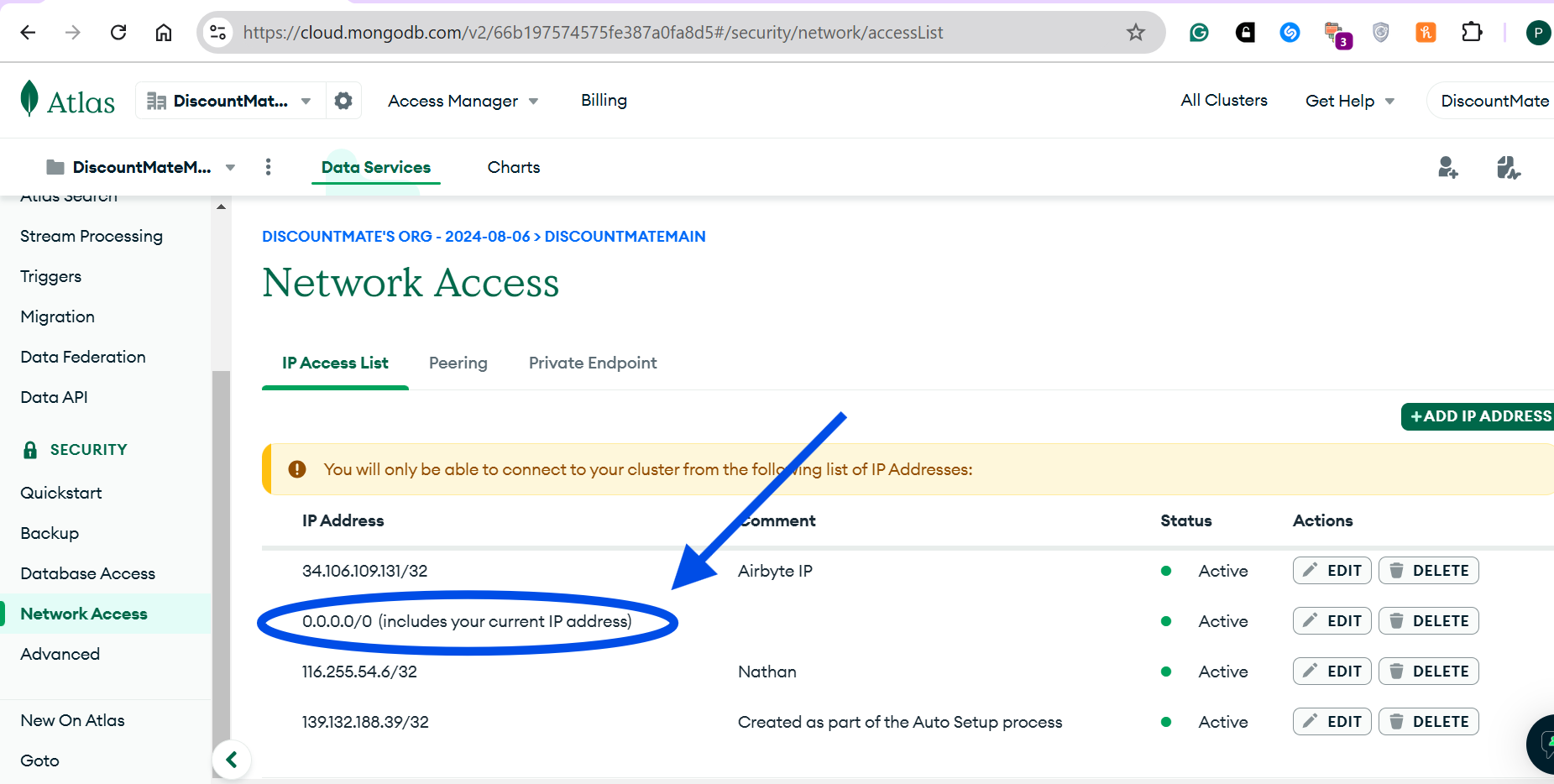
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1. Identify the user account relevant to you (or create an account as needed). The users have different accessibility settings e.g. discountmate\_read\_and\_write can read and write to any database (which is necessary to upload, edit or use data)

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Side Note: Don’t remove this IP address from the **Network Access** page. It enables the user to access the database from any IP address.



1. To navigate to our database, follow these steps:

1st click on Clusters.

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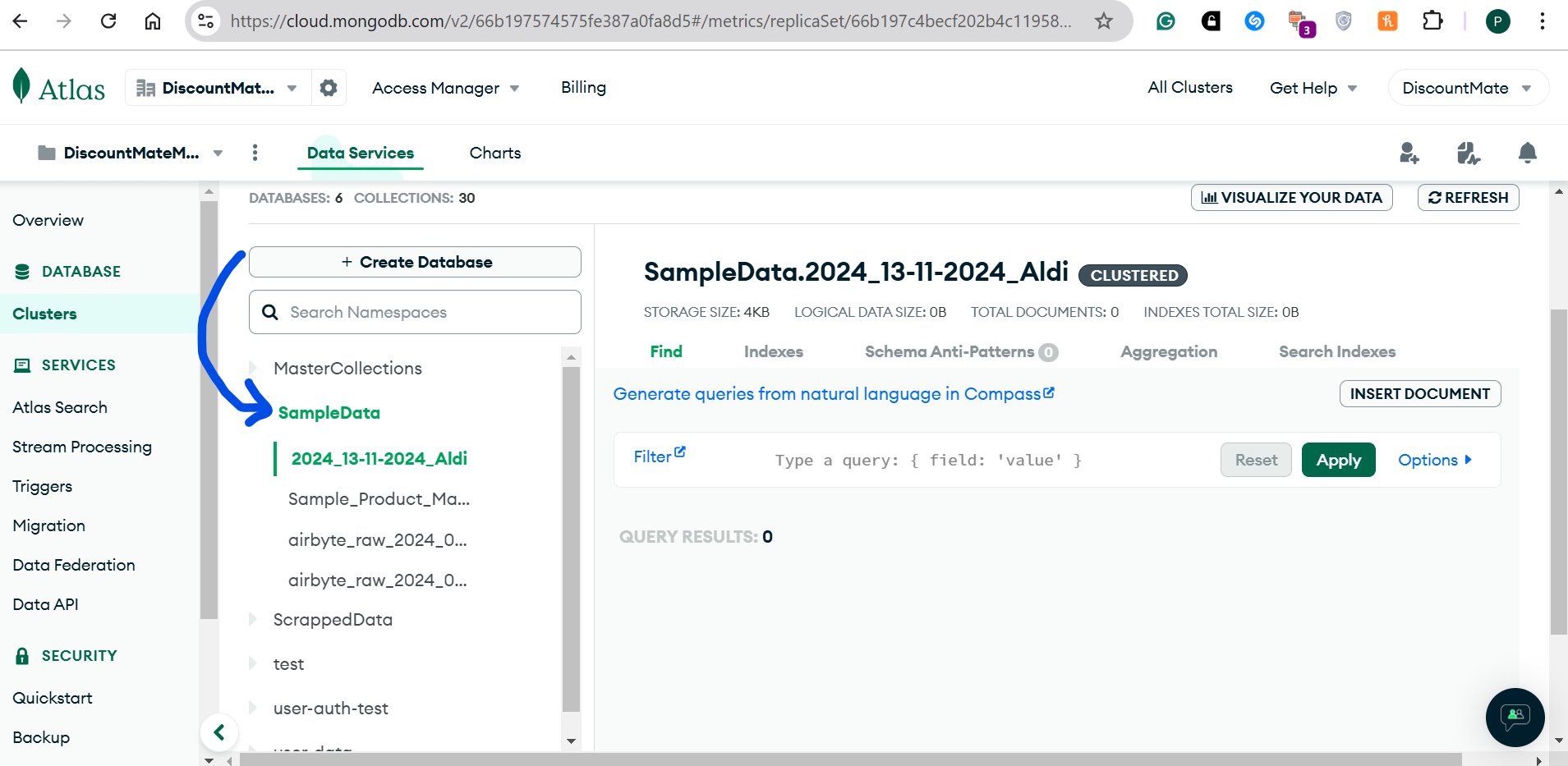
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2nd click on ‘Browse Collections’. The enables you to see the collections of data we have

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3rd Explore the collections and databases that we have. By clicking on ‘ + Create Database’ a database like **SampleData** will be created.



To create a collection, hover your mouse over right side of the Database label like so:

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By clicking on the plus sign an option will come up to add a collection to that database. So a **database** can contain multiple **collections**, and a collection contains **data**.

You can insert data manually into the collection by clicking ‘Insert Document’.

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If you’re entering a large amount of data, this isn’t the best way of loading data into the database – it’s better to use a script (like with Python which I’ll explain next).

1. Use the python code to load data into the database. While scraping data from Aldi I was able to do this, the code is on Github near the end of the python script. The link: <https://github.com/DataBytes-Organisation/DiscountMate_new/blob/main/Scrapping/Aldi%20Scraping%20from%20price-reductions%20Page/scrapping_aldi.ipynb>

The code will be colored purple.

1st install the relevant packages.

!pip install pymongo  
from pymongo import MongoClient

2nd connect to the DiscountMate cluster. Note: you could reuse this code, but if you want to know how I got it, in the appendix of this document I explained how.

client = MongoClient('mongodb+srv://discountmate\_read\_and\_write:discountmate@discountmatecluster.u80y7ta.mongodb.net/?retryWrites=true&w=majority&appName=DiscountMateCluster')

3rd from the cluster define your database and collection (that you want to access the data from). Note: if this database or collection doesn’t already exist MongoDb will create it.

db = client['ScrappedData']

collection = db['2024-13-11 Aldi Data']

So, I used the **ScrappedData** database and the **2024-13-11 Aldi Data** collection.

4th convert the data into a dictionary format

data\_dict = data.to\_dict(orient='records')

5th Insert the data into the collection

insert\_doc = collection.insert\_many(data\_dict)

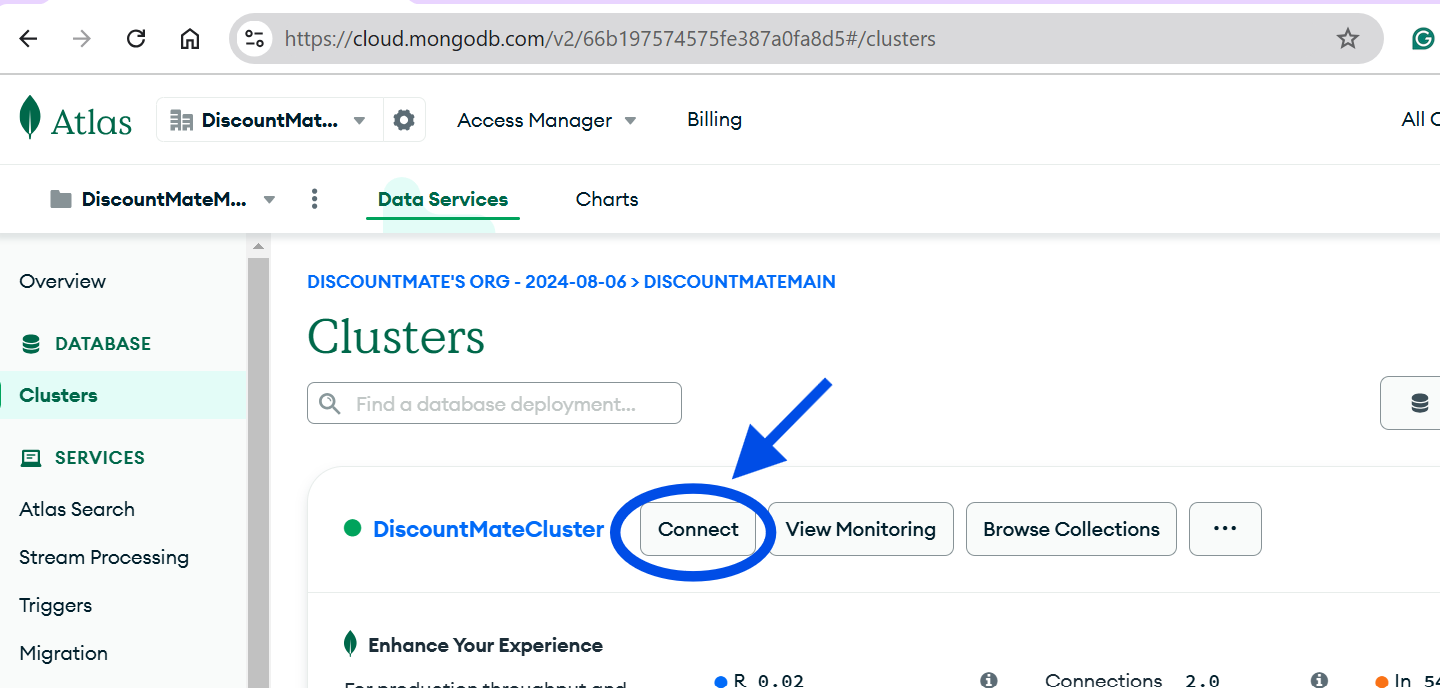
6th Close the connection to the client.

client.close()

7th Check that your data actually uploaded successfully by using Step 5’s ‘Browse Collections’ button.

## Appendix

1. Click on ‘Connect’



1. Click on ‘Drivers’

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1. This is where I got the link from. Note: for the values of db\_username and db\_password refer to step 4 where we look at the ‘Database Access’ page.

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