Discussion 12

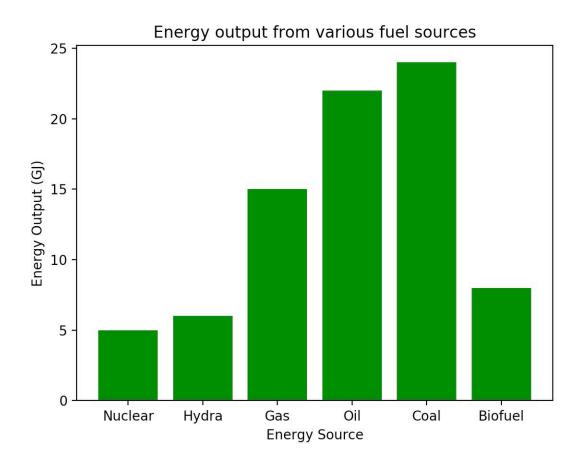
Masks still required in the classroom

If you haven't already done so.

Pip install matplotlib

Matplotlib example

```
Users > Yasmeen > Desktop > discussion 12 > ♥ example.py > ...
       import matplotlib.pyplot as plt
       import numpy as np
      x = ['Nuclear', 'Hydra', 'Gas', 'Oil', 'Coal', 'Biofuel']
      energy = [5,6,15,22,24,8]
      plt.bar(x, energy, color = 'green')
  8
      plt.xlabel("Energy Source")
      plt.ylabel("Energy Output (GJ)")
      plt.title("Energy output from various fuel sources")
 11
 12
 13
      plt.xticks(x)
 14
       plt.show()
```



Tips

Plan and then code

IF NOT EXISTS -> Update the database

DROP TABLE IF EXISTS -> Rewrite the database

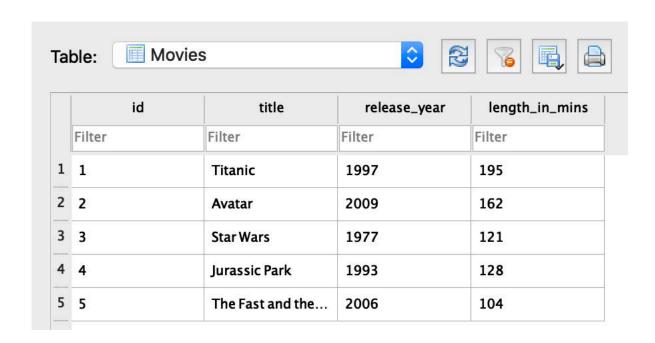
Check your database

If your data is huge, limit your data to make sure your code works before implementing the code

Use resources like inspect element, jsoneditoronline, regex101

Movies.db

You are given a database with two tables



	unique_id	fave_movie_id
	Filter	Filter
1	jesbln	4
2	wildk	1
3	mkllln	1
4	jhike	5
5	wilman	2
6	khjah	3
7	obook	2
8	jaspeh	1
9	patmuer	4
10	ytshek	1
11	marksk	5
12	elilust	5

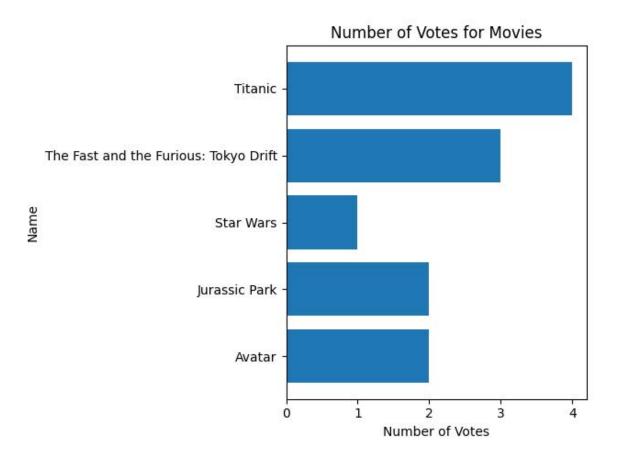
Task 1

- Count the votes for each movie using SQL
- You will need to use Count and Join
- Return a list of count and movie title tuples as seen below

[(2, 'Avatar'), (2, 'Jurassic Park'), (1, 'Star Wars'), (3, 'The Fast and the Furious: Tokyo Drift'), (4, 'Titanic')]

Task 2

Now let's visualize the data!
Create a bar plot using matplotlib
Y= name
X= number of votes
Hint: difference between bar and barh



Task 3

- Now let's make another visualization and decide which is the best way to represent the data
- Create a pie chart using matplotlib

Number of Votes for Movies

