- 1. Using the cleaned data that I have processed previously, I will then use query languages, Presto, to explore potentially insightful results from my current data sq2.csv, which contains the information of one's status of sleep from the experiment.
  - 1) Query the average time in bed for each gender to see the gap in each gender.

- It can be observed that the male from the group on average spend less time in bed than the female by about 0.64 hr
- 2) Query the average time in bed for people with different ages.

```
select age, avg(time in bed) from hive.zl3152 nyu edu.sq
         GROUP BY age
         order by age asc;
              col1
age |
 20
        6.26666666666667
 21
      5.7875000000000005
22
     | 6.1000000000000005
23
24
        7.000000000000001
25
       6.6571428571428575
       6.6428571428571415
27
                     5.75
                      8.1
28
(9 rows)
Query 20230417 030623 00064 d2d8x, FINISHED, 2 nodes
Splits: 100 total, 100 done (100.00%)
0.22 [61 rows, 8.08KB] [274 rows/s, 36.4KB/s]
```

- There are no interesting findings on time in bed per age, but a sudden drop of time in bed at the age of 27 appears to be somewhat dubious, as I will have to consider the background of the subjects in this experiment to account for this data.
- 3) Query the sleep\_duration across genders

- Females sleep about 0.7hrs more than males do
- 4) Query the sleep duration across ages

```
select age, avg(sleep duration) from hive.zl3152 nyu edu.sq
         GROUP BY age
          order by age asc;
             col1
age |
     | 5.899999999999995
20
21
                   5.2125
22
       6.325000000000001
23
24
       6.483333333333333
25
        5.964285714285714
26
27
                      5.4
28
                      7.7
(9 rows)
Query 20230417 031433 00067 d2d8x, FINISHED, 2 nodes
Splits: 100 total, 100 done (100.00%)
0.22 [61 rows, 8.08KB] [278 rows/s, 36.9KB/s]
```

- This resembles the pattern as we did for time\_in\_bed. It appears that people at age 20-23 sleeps relatively short, perhaps due to classes.
- 2. Notice, all code is under cmd.txt
- 3. There is more data to be put, but I have not completed the cleaning of them at this point, and I will reflect on the change next time.
  - There are other data about performance of one's behavior, which I will be later joining the tables to the sleep quality to find the correlation between performance and sleep quality.
- 4. The presentation slide is the following link: <a href="https://wepik.com/edit/33b8ddbf-c36c-40b3-83ef-ba3f1736b42a?lang=en#rs=landing-ai-slidesgo">https://wepik.com/edit/33b8ddbf-c36c-40b3-83ef-ba3f1736b42a?lang=en#rs=landing-ai-slidesgo</a>