Jefferson Bercaw

BME 580

Homework 1

1/31/2023

**Part 2:**

# 1.

scp covid\_data.csv.gz jrb187@dcc-login.oit.duke.edu:/hpc/home/jrb187

Text

Description automatically generated

# 2.

zcat covid\_data.csv.gz | head -n 5

zcat covid\_data.csv.gz | tail -n 5

A screenshot of a computer

Description automatically generated with medium confidence

# 3.

zcat covid\_data.csv.gz | awk -F’,’ 'END{print NF,NR}'



There are 21 Columns and 1048576 rows

# 4

zcat covid\_data.csv.gz | awk -F’,’ ‘{print $5}’ | uniq -c | wc -l



There are 1836 unique dates in this dataset.

# 5.

zcat covid\_data.csv.gz | grep -v 9999-99-99 | awk -F',' '{print $5}' | uniq -c | sort -n | tail -n 1



07/07/2020 had the most deaths, at 526 deaths.

# 5a.

zcat covid\_data.csv.gz | grep 9999-99-99 | wc -l



971633 / 1048576 \* 100 = 92.66% of the patients survived.

# 6.

zcat covid\_data.csv.gz | sed 's/9999-99-99/NA/g' | tail -l

\*\* the last command “tail -l” is just to display a representative data structure

Text

Description automatically generated

# 7.

zcat covid\_data.csv.gz | sed 's/,/\t/g' | tail -l

\*\* the last command “tail -l” is just to display a representative data structure

A picture containing calendar

Description automatically generated