COVID-19 Data Exploration

In December 2019, Coronavirus disease 2019 (COVID-19) was emerged. It is a contagious disease caused by a virus SARS-CoV-2 (severe acute respiratory syndrome coronavirus). The disease quickly spread from person to person. It caused millions of deaths worldwide resulting in COVID-19 pandemic. It was a bleak moment in our history. However, thanks to the medical healthcare and researchers, we now have some vaccines to protect ourself from COVID-19 and the rate of people death due to COVID-19 has gone down.
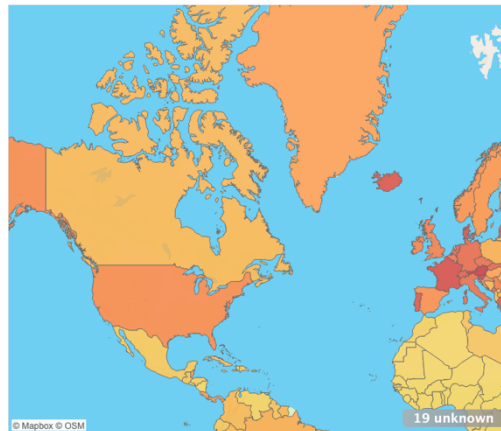
In this project, I explored COVID-19 dataset taken from https://ourworldindata.org/covid-deaths using SQL workspace on BigQuery. After downloading the data, I cleaned and segregated the dataset into two portions, Covid Death and Covid Vaccinations. Then, I run some SQL queries and saved the results in Excel for Tableau used. Note: the data is being updated every day on the website. So, my number may not be the same as what you will have if you try to run the same SQL queries.
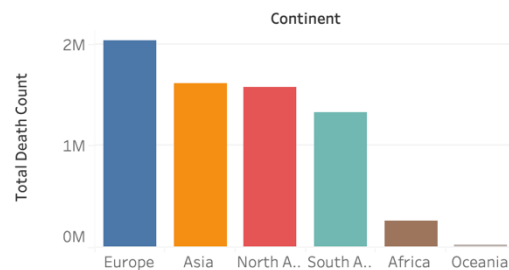
Global Numbers

Total cases	Total Deaths	Death Percentage
673,334,400	6,832,478	1.01

Total Deaths Per Continent

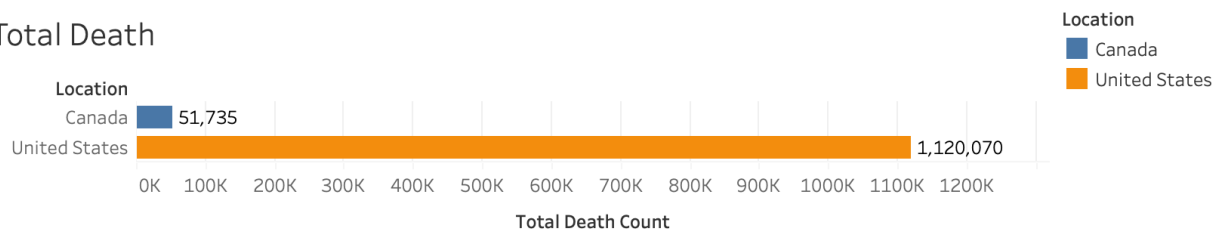## Percent Populated Infected Per Country
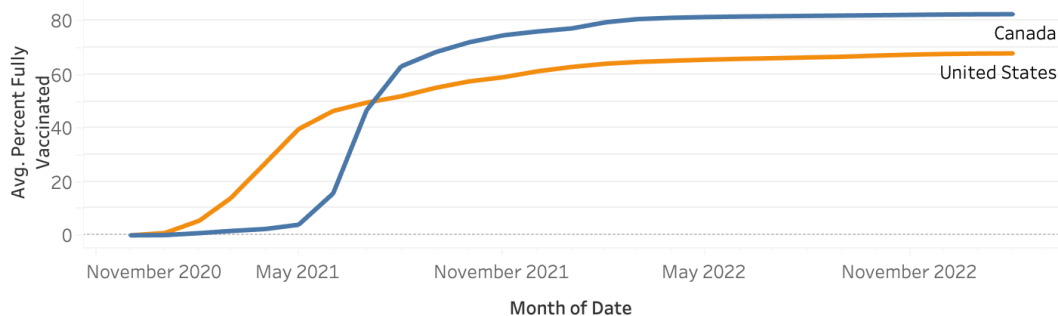

Percent Population Infected
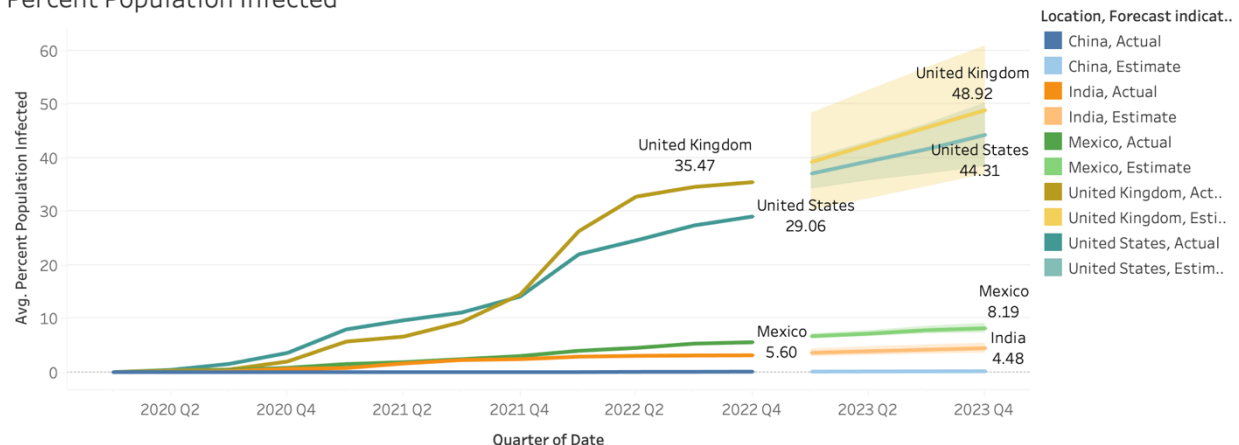
As we can see above, the death percentage of COVID-19 is 1.01% worldwide. Although it is only 1%, it is still a big number (around 6.8 million death). Europe has the highest number of people who died due to COVID-19 compare to Asia, North America, South America, Africa and Oceania. We can look at the map how each country was infected by COVID-19. Again, we can see that population in Europe continent has higher infected rate than the population in North America continent. In addition, United Kingdom has the highest percentage of population infected with COVID-19 compare to United States, Mexico, India, and China.

Now, we are going to look at the United States and Canada in terms of total death, percentage of people being fully vaccinated, and percentage of people being in Intensive Care Unit (ICU) because of COVID-19.
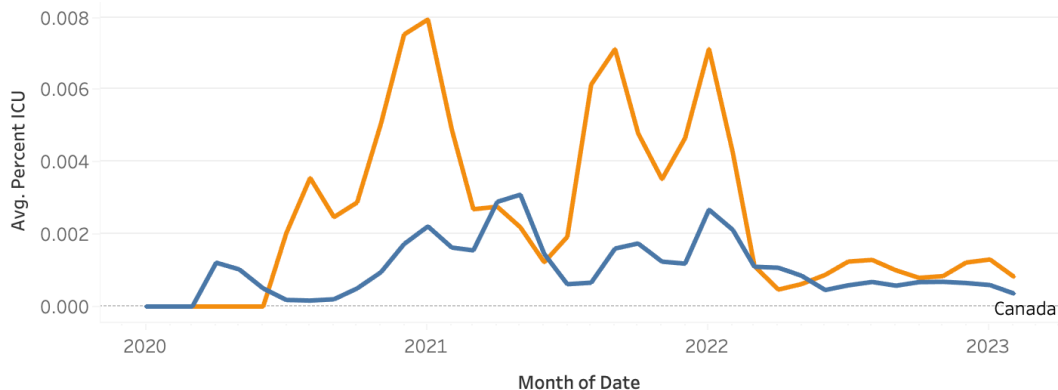
Total Death

Location

Location	
■ Canada	
■ United States	

Canada — 51,735

United States — 1,120,070

0K 100K 200K 300K 400K 500K 600K 700K 800K 900K 1000K 1100K 1200K

Total Death Count

Percent of People Fully Vaccinated

Percentage of People in ICU

Population of Canada is around a tenth of the population in the United States. Based on the above graph, United States has around 21 times more deaths than Canada. Also, United States has more percentage of population going to ICU compare to Canada. Maybe this is due to less percentage of population getting fully vaccinated in the United States.

Coronavirus 2019 can be transmitted easily from person to person. Looking at the chart between Canada and United States, we can prevent getting COVID-19 by getting fully vaccinated.

References

COVID-19 - https://www.hopkinsmedicine.org/health/conditions-and-diseases/coronavirus
COVID-19 - https://en.wikipedia.org/wiki/COVID-19
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