Document highlight:

- Setup Tableau Public
- Run MySQL queries (from data exploration query set), copy the results, and create excel files for each dataset (to be used as Tableau tables)
- In Tableau, load and work on the following:
 - o Table 1 Number of cases, deaths, and fatality rate (global)
 - Table 2 Fatality rate compared to population (by continent)
 - Table 3 Fatality rate (by country)
 - Table 4 % infection rate compared to population (by country)
 - Table 5 Population versus vaccinations (by country)
- Build the Tableau dashboard
- Tableau public link:

https://public.tableau.com/app/profile/noel.lopez6438/viz/Covid-19TableauDashboard_17303378497140/Dashboard1?publish=yes

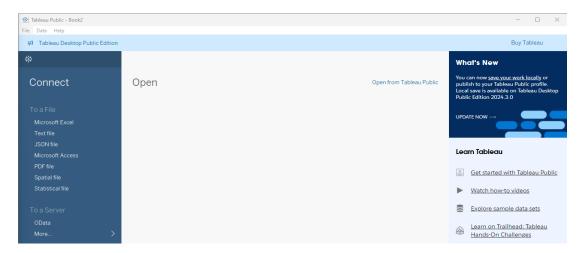
1. Setup Tableau (public)

Download and install (follow installation guide):

https://www.tableau.com/products/public/download



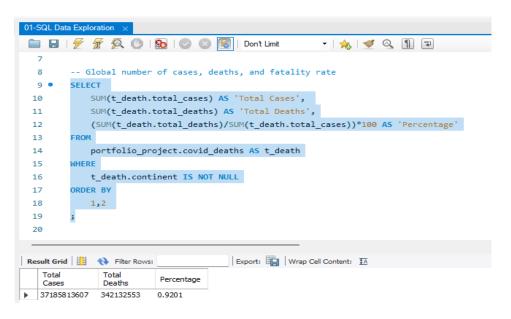
Tableau Public home screen (desktop)



2. Run MySQL queries (from data exploration query set), copy the results, and create excel files for each dataset (to be used as Tableau tables)

Table 1:

Number of cases, deaths, and fatality rate (global)



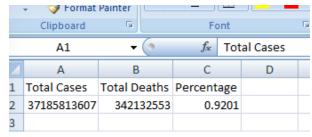
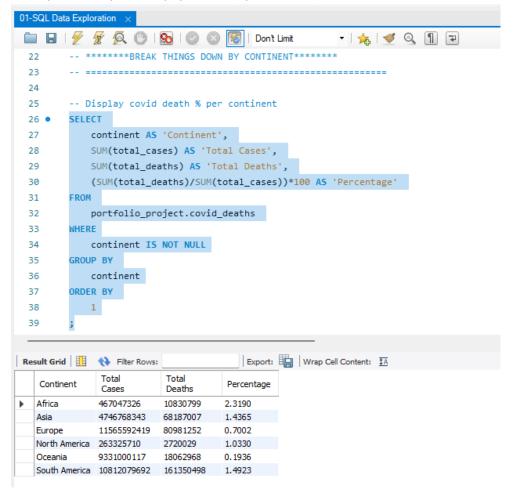


Table 2:

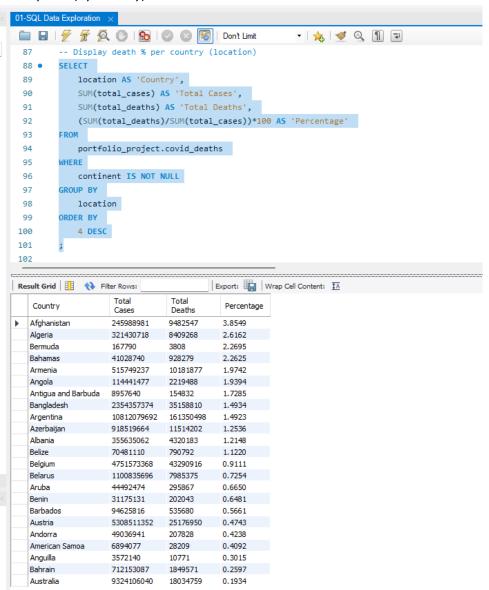
Fatality rate compared to population (by continent)



	Α	В	С	D	E
1	Continent	Total Cases	Total Deaths	Percentage	
2	Africa	467047326	10830799	2.319	
3	Asia	4746768343	68187007	1.4365	
4	Europe	11565592419	80981252	0.7002	
5	North America	263325710	2720029	1.033	
6	Oceania	9331000117	18062968	0.1936	
7	South America	10812079692	161350498	1.4923	
8					
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Table 3:

Fatality rate (by country)



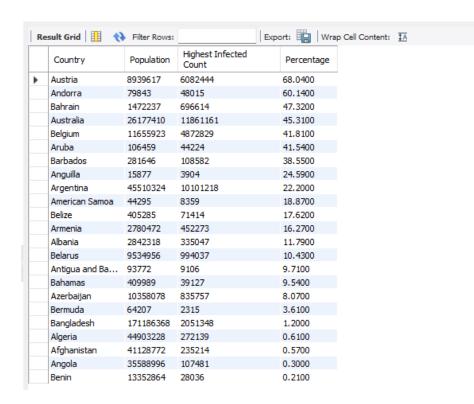
Excel:

4	А	В	С	D	Е	F	G
1	Country	Total Cases	Total Deaths	Percentage			
2	Afghanistan	245988981	9482547	3.8549			
3	Algeria	321430718	8409268	2.6162			
4	Bermuda	167790	3808	2.2695			
5	Bahamas	41028740	928279	2.2625			
6	Armenia	515749237	10181877	1.9742			
7	Angola	114441477	2219488	1.9394			
8	Antigua and Barbuda	8957640	154832	1.7285			
9	Bangladesh	2354357374	35158810	1.4934			
10	Argentina	10812079692	161350498	1.4923			
11	Azerbaijan	918519664	11514202	1.2536			
12	Albania	355635062	4320183	1.2148			
13	Belize	70481110	790792	1.122			
14	Belgium	4751573368	43290916	0.9111			
15	Belarus	1100835696	7985375	0.7254			
16	Aruba	44492474	295867	0.665			
17	Benin	31175131	202043	0.6481			
18	Barbados	94625816	535680	0.5661			
19	Austria	5308511352	25176950	0.4743			
20	Andorra	49036941	207828	0.4238			
21	American Samoa	6894077	28209	0.4092			
22	Anguilla	3572140	10771	0.3015			
23	Bahrain	712153087	1849571	0.2597			
24	Australia	9324106040	18034759	0.1934			
25							

Table 4:

% infection rate compared to population (by country)

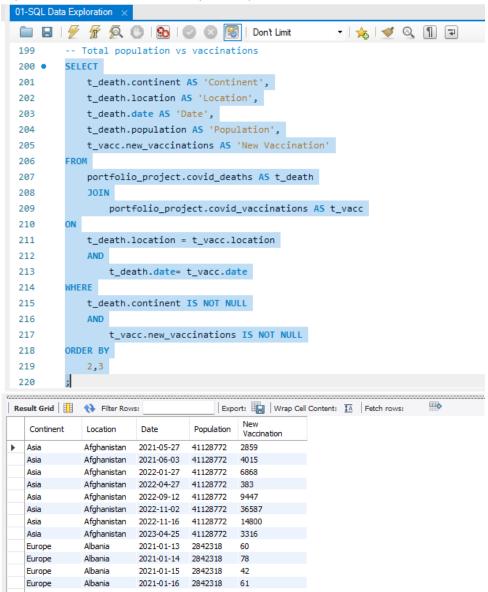
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01-SQL Data Exploration X
🛅 🔚 | 🗲 蕵 👰 🕛 | 🔂 | 🕢 🐼 | 🗑 | Don't Limit
                                                       - | 🛵 | 🥩 🔍 👖 🖃
161
        -- Calculate country with highest % infection rate compared to its population
162 •
        SELECT
163
          t_death.location AS 'Country',
164
           t_death.population AS 'Population',
165
          MAX(t_death.total_cases) AS 'Highest Infected Count',
166
           MAX((t_death.total_cases/t_death.population))*100 AS 'Percentage'
167
        FROM
168
            portfolio_project.covid_deaths AS t_death
        WHERE
169
          t_death.continent IS NOT NULL
170
171
        GROUP BY
172
           t_death.location,
173
            \verb"t_death.population"
174
        ORDER BY
175
            Percentage DESC
        ;
176
```



	A1 ▼	f_x	Country				
4	А	В	С	D	Е	F	G
1	Country	Population	Highest Infected Count	Percentage			
2	Austria	8939617	6082444	68.04			
3	Andorra	79843	48015	60.14			
4	Bahrain	1472237	696614	47.32			
5	Australia	26177410	11861161	45.31			
6	Belgium	11655923	4872829	41.81			
7	Aruba	106459	44224	41.54			
8	Barbados	281646	108582	38.55			
9	Anguilla	15877	3904	24.59			
10	Argentina	45510324	10101218	22.2			
11	American Samoa	44295	8359	18.87			
12	Belize	405285	71414	17.62			
13	Armenia	2780472	452273	16.27			
14	Albania	2842318	335047	11.79			
15	Belarus	9534956	994037	10.43			
16	Antigua and Barbuda	93772	9106	9.71			
17	Bahamas	409989	39127	9.54			
18	Azerbaijan	10358078	835757	8.07			
19	Bermuda	64207	2315	3.61			
20	Bangladesh	171186368	2051348	1.2			
21	Algeria	44903228	272139	0.61			
22	Afghanistan	41128772	235214	0.57			
23	Angola	35588996	107481	0.3			
24	Benin	13352864	28036	0.21			
25							

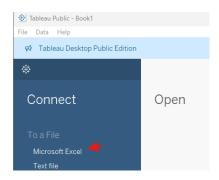
Table 5:

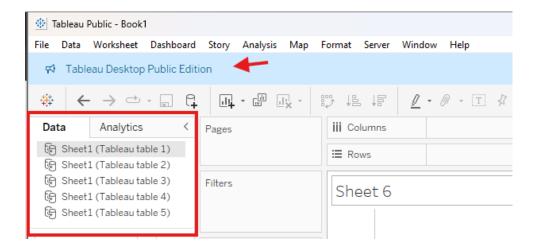
Population versus vaccinations (by country)



1 A	В	С	D	E	F	
Continent	Location	Date	Population	New Vaccination		
Asia	Afghanistan	2021-05-27	41128772	2859		
Asia	Afghanistan	2021-06-03	41128772	4015		
Asia	Afghanistan	2022-01-27	41128772	6868		
Asia	Afghanistan	2022-04-27	41128772	383		
Asia	Afghanistan	2022-09-12	41128772	9447		
Asia	Afghanistan	2022-11-02	41128772	36587		
Asia	Afghanistan	2022-11-16	41128772	14800		
Asia	Afghanistan	2023-04-25	41128772	3316		
Europe	Albania	2021-01-13	2842318	60		
Europe	Albania	2021-01-14	2842318	78		
Europe	Albania	2021-01-15	2842318	42		
Europe	Albania	2021-01-16	2842318	61		
Europe	Albania	2021-01-17	2842318	36		
Furone	Albania	2021-01-18	2842318	42		

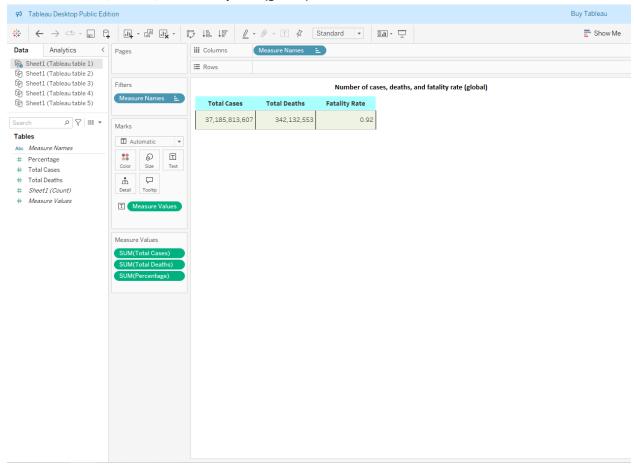
3. In Tableau, open a new Tableau and load the excel (table) files





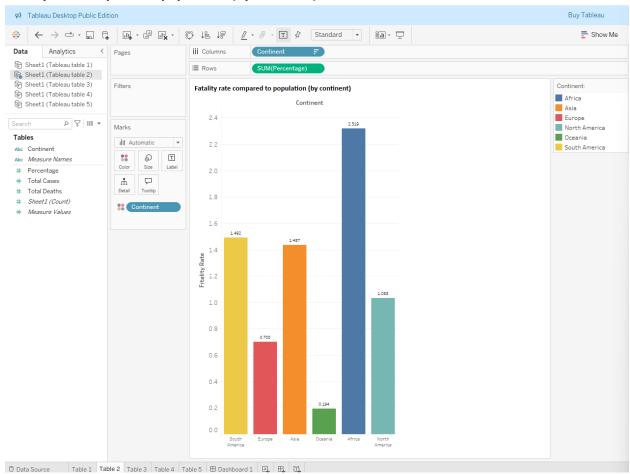
4. Load and work on Table 1 display

Number of cases, deaths, and fatality rate (global)



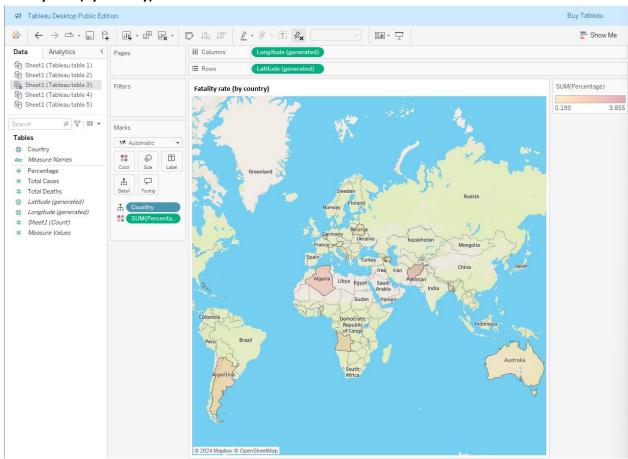
5. Load and work on Table 2 display

Fatality rate compared to population (by continent)



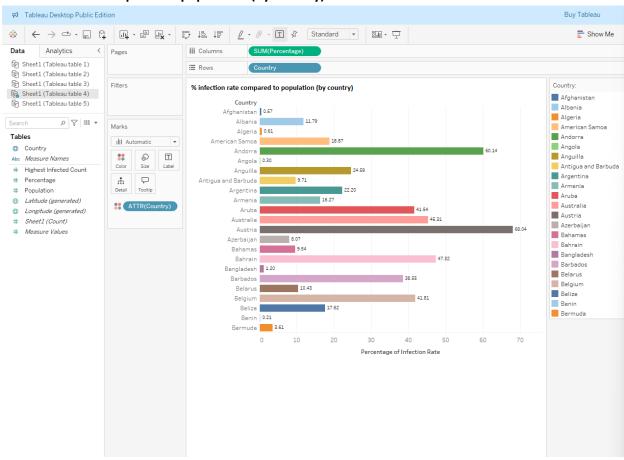
6. Load and work on Table 3 display

Fatality rate (by country)



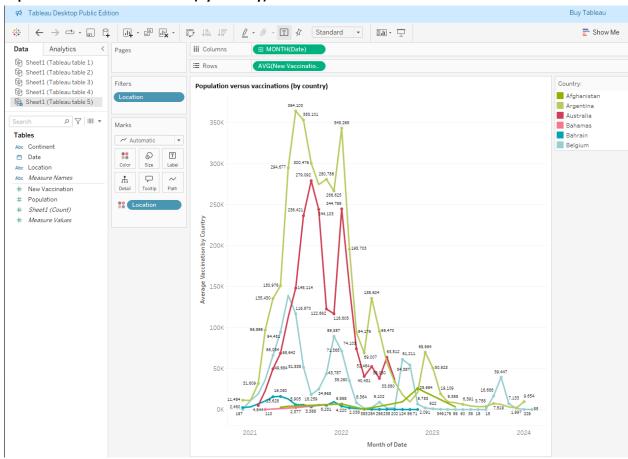
7. Load and work on Table 4 display

% infection rate compared to population (by country)



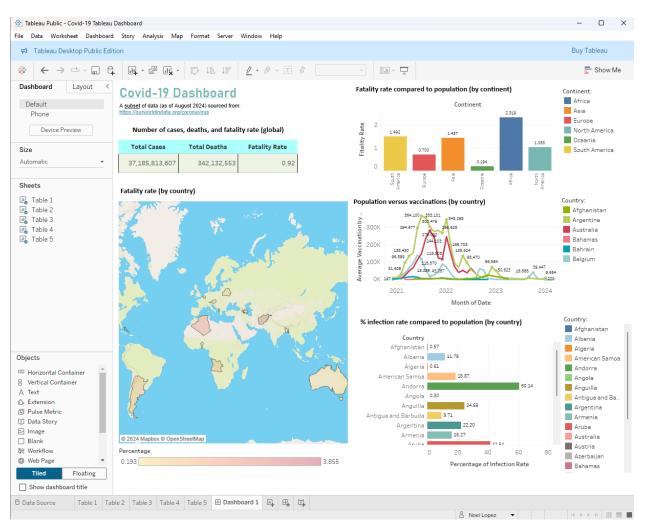
8. Load and work on Table 5 display

Population versus vaccinations (by country)



9. Build the Tableau dashboard

Layout the tables on the Tableau dashboard



After publishing, the dashboard goes live (public):

https://public.tableau.com/app/profile/noel.lopez6438/viz/Covid-19TableauDashboard 17303378497140/Dashboard1?publish=yes

