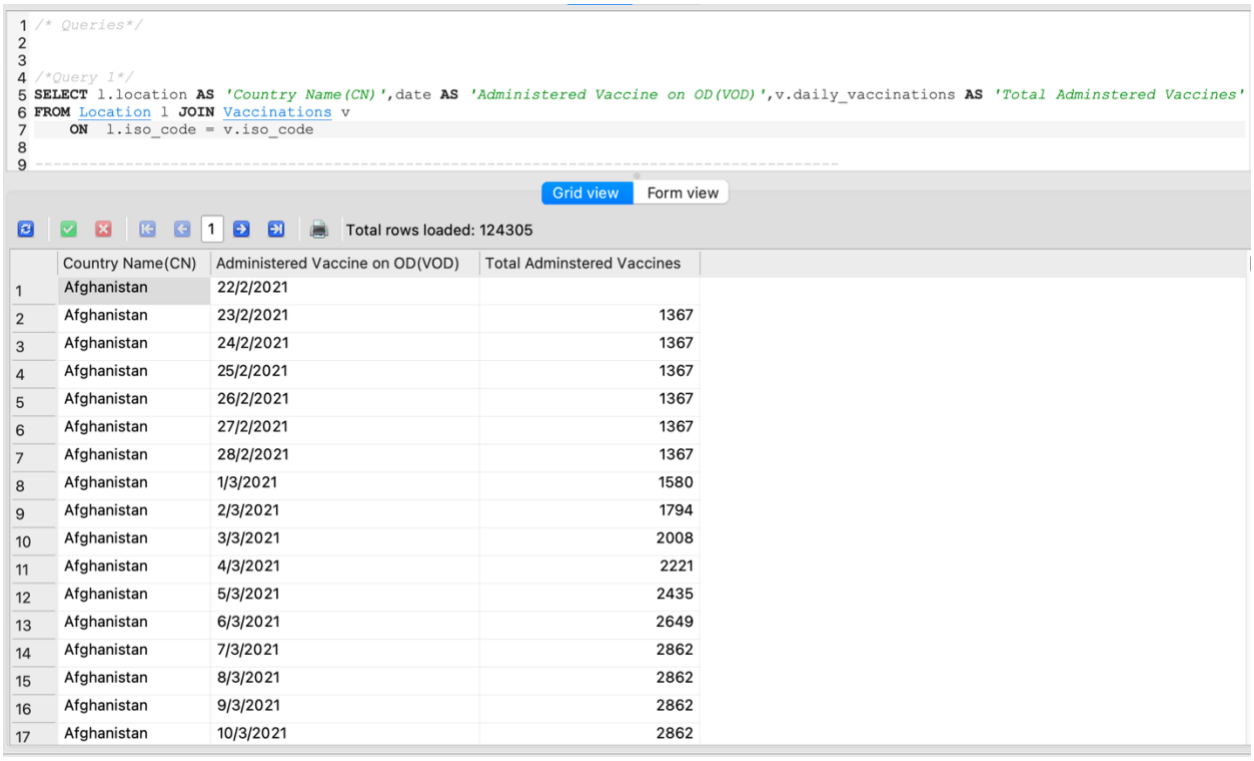
Queries

Query 1

SELECT l.location AS 'Country Name(CN)', date AS 'Administered Vaccine on OD(VOD)',v.daily_vaccinations AS 'Total Adminstered Vaccines'
FROM Location l JOIN Vaccinations v ON l.iso_code = v.iso_code;

Results



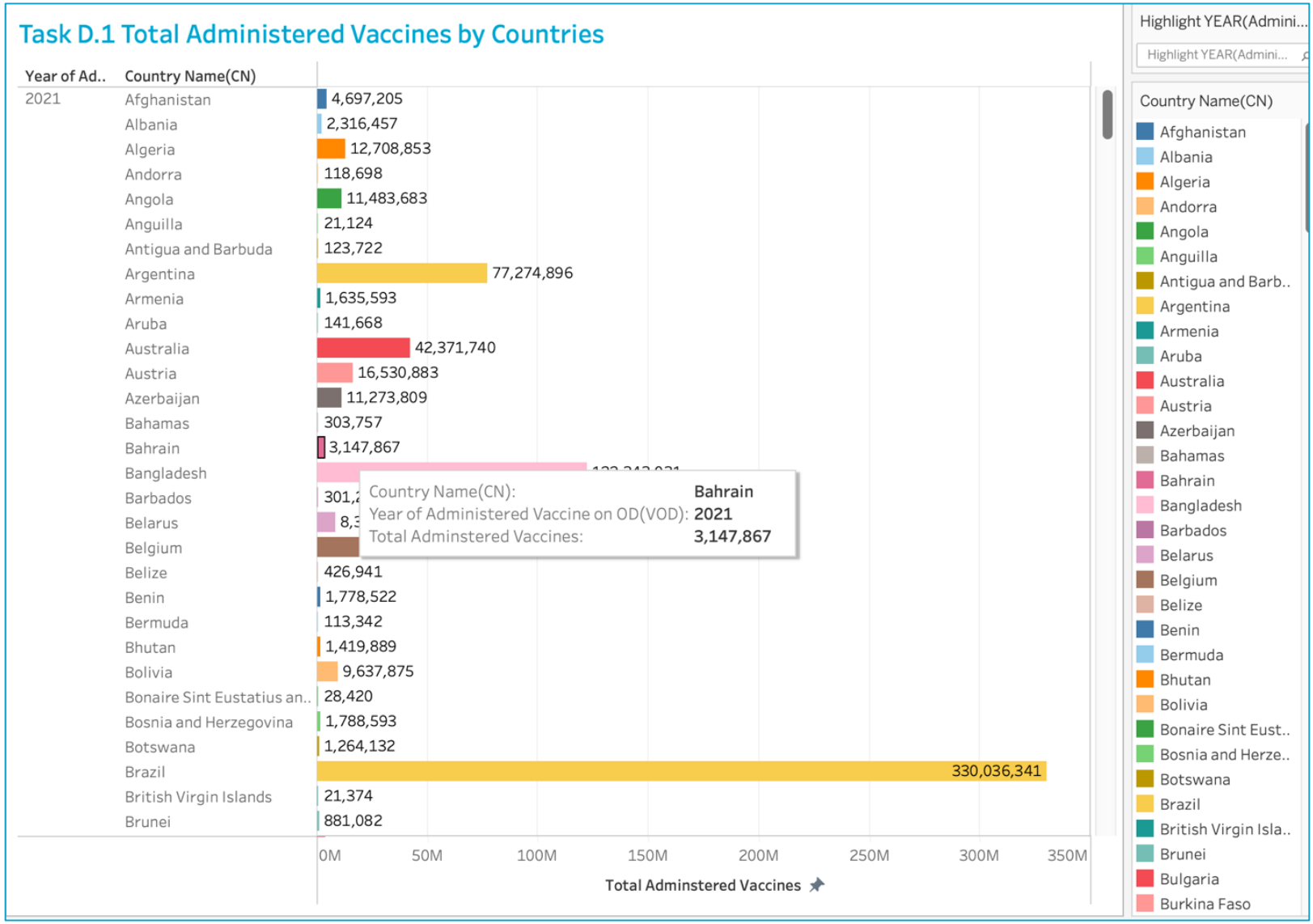
```
1 /* Queries*/
2
3
4 /*Query 1*/
5 SELECT l.location AS 'Country Name(CN)',date AS 'Administered Vaccine on OD(VOD)',v.daily_vaccinations AS 'Total Adminstered Vaccines'
6 FROM Location l JOIN Vaccinations v
7     ON  l.iso_code = v.iso_code
8
9 ------------------------------------------------------------------------------
```

Grid view | Form view

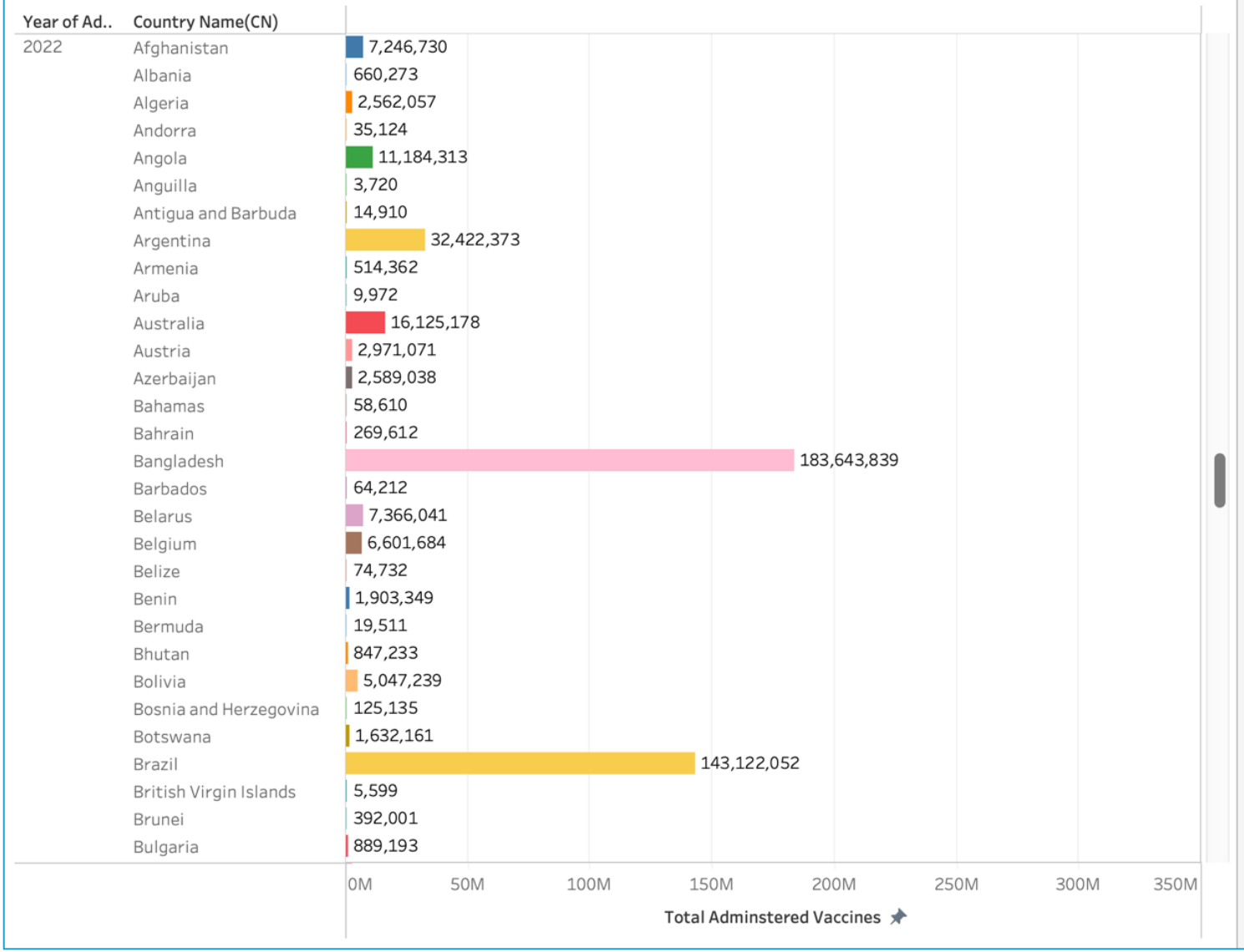
Total rows loaded: 124305

	Country Name(CN)	Administered Vaccine on OD(VOD)	Total Adminstered Vaccines
1	Afghanistan	22/2/2021	
2	Afghanistan	23/2/2021	1367
3	Afghanistan	24/2/2021	1367
4	Afghanistan	25/2/2021	1367
5	Afghanistan	26/2/2021	1367
6	Afghanistan	27/2/2021	1367
7	Afghanistan	28/2/2021	1367
8	Afghanistan	1/3/2021	1580
9	Afghanistan	2/3/2021	1794
10	Afghanistan	3/3/2021	2008
11	Afghanistan	4/3/2021	2221
12	Afghanistan	5/3/2021	2435
13	Afghanistan	6/3/2021	2649
14	Afghanistan	7/3/2021	2862
15	Afghanistan	8/3/2021	2862
16	Afghanistan	9/3/2021	2862
17	Afghanistan	10/3/2021	2862

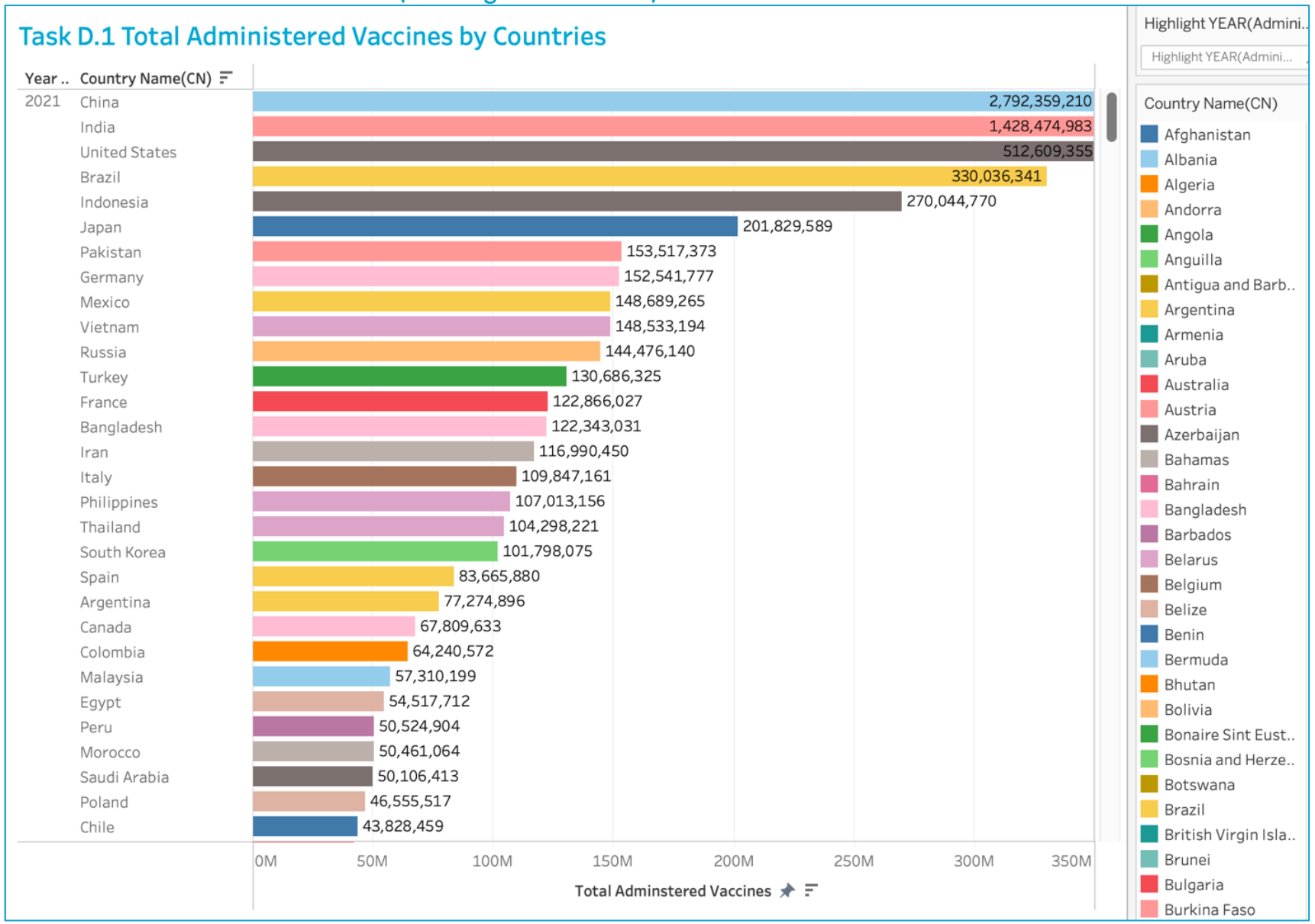
Data Visualization



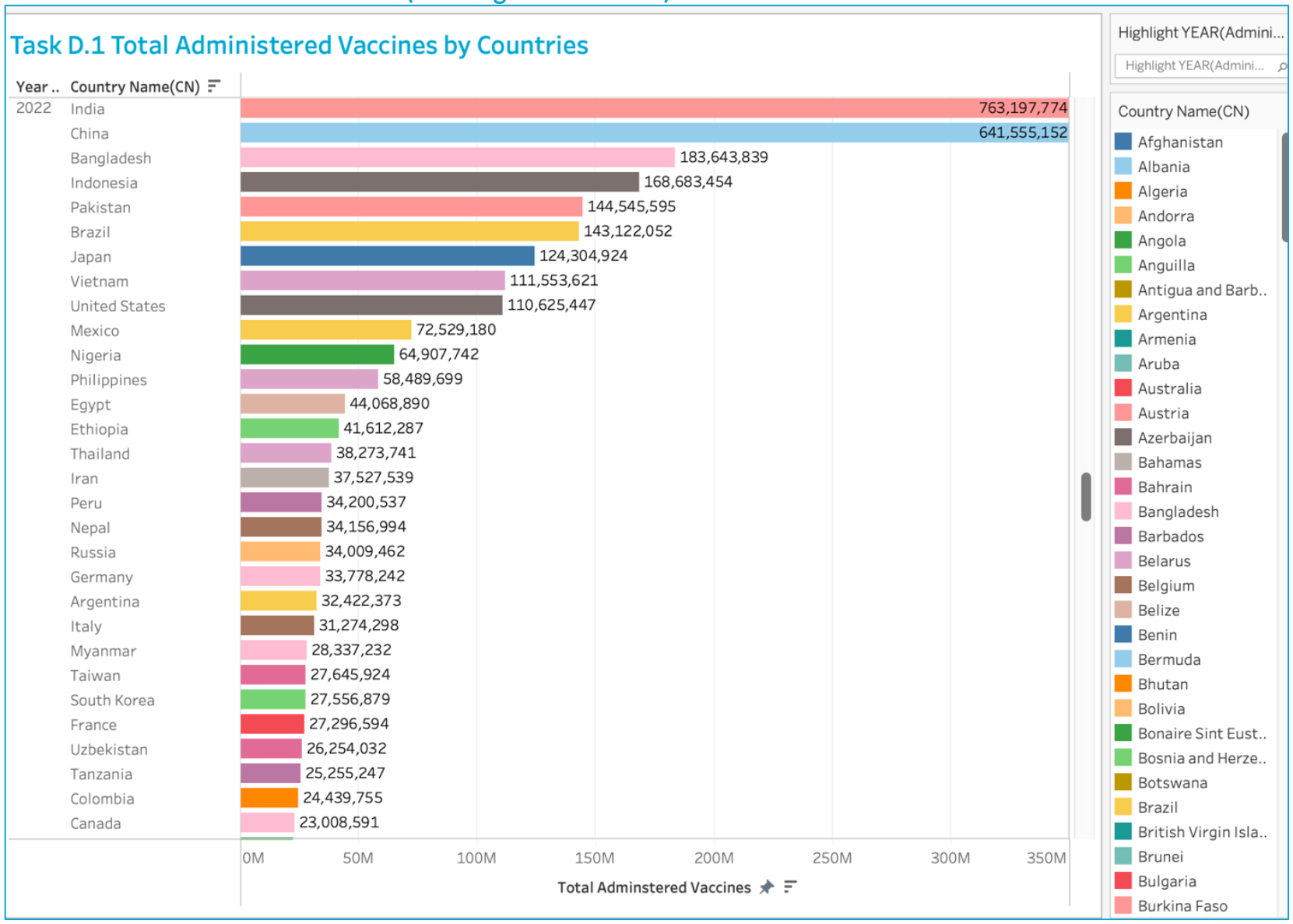
Task D.1 Total Administered Vaccines by Countries



2021 - Total Administered Vaccines (from highest to lowest)



2022 - Total Administered Vaccines (from highest to lowest)



Query 2 - cumulative numbers of COVID-19 doses administered

SELECT l.location AS Country , MAX(NULLIF(total_vaccinations, "")) AS 'Cumulative Doses'
FROM Location l JOIN Vaccinations v ON l.iso_code = v.iso_code
WHERE v.total_vaccinations NOT NULL AND Country NOT NULL
GROUP BY Country
ORDER BY Country ASC;

Results

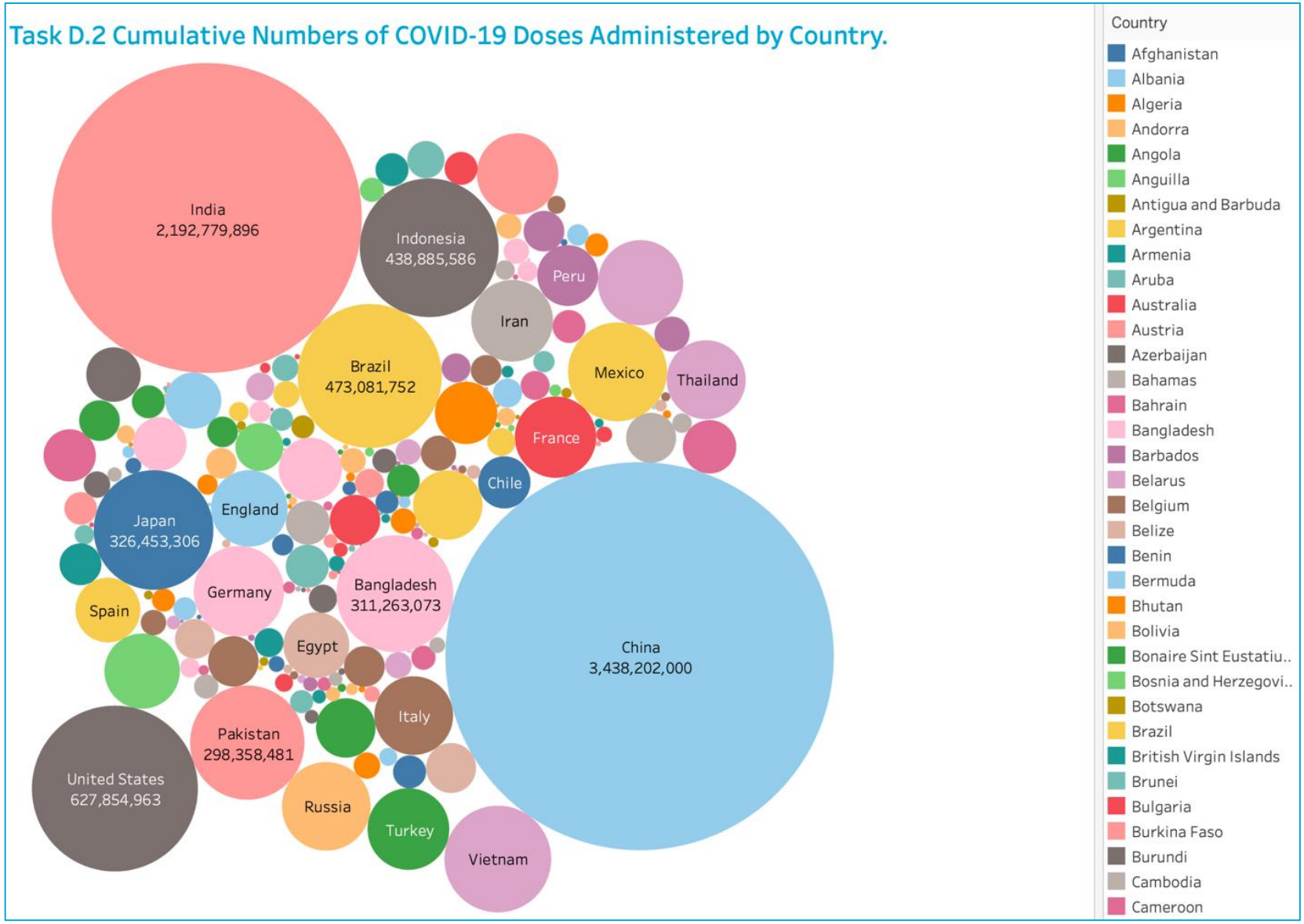
```
10 ------------------------------------------------------------------------------------------
11
12 /*Query 2* cumulative numbers of COVID-19 doses administered*/
13 SELECT l.location AS Country , MAX(NULLIF(total_vaccinations, "")) AS 'Cumulative Doses'
14 FROM Location l JOIN Vaccinations v
15     ON  l.iso_code = v.iso_code
16 WHERE v.total_vaccinations NOT NULL AND Country NOT NULL
17 GROUP BY Country
18 ORDER BY Country ASC;
19
20 ------------------------------------------------------------------------------------------
```

Grid view | Form view

Total rows loaded: 223

	Country	Cumulative Doses
1	Afghanistan	11951964
2	Albania	2978248
3	Algeria	15267442
4	Andorra	154216
5	Angola	22696229
6	Anguilla	24412
7	Antigua and Barbuda	136512
8	Argentina	109744741
9	Armenia	2150112
10	Aruba	173591
11	Australia	58494109
12	Austria	19558872
13	Azerbaijan	13857111
14	Bahamas	362109
15	Bahrain	3472387

Data Visualization



Query 3

```
SELECT    l.location AS Country, vc.vaccine_name AS Vaccine
FROM      (Location l Join VaccineLocation vl ON l.iso_code = vl.iso_code)
          Join Vaccines vc on vl.vaccine_id = vc.vaccine_id
ORDER BY  Country ASC;
```

Results

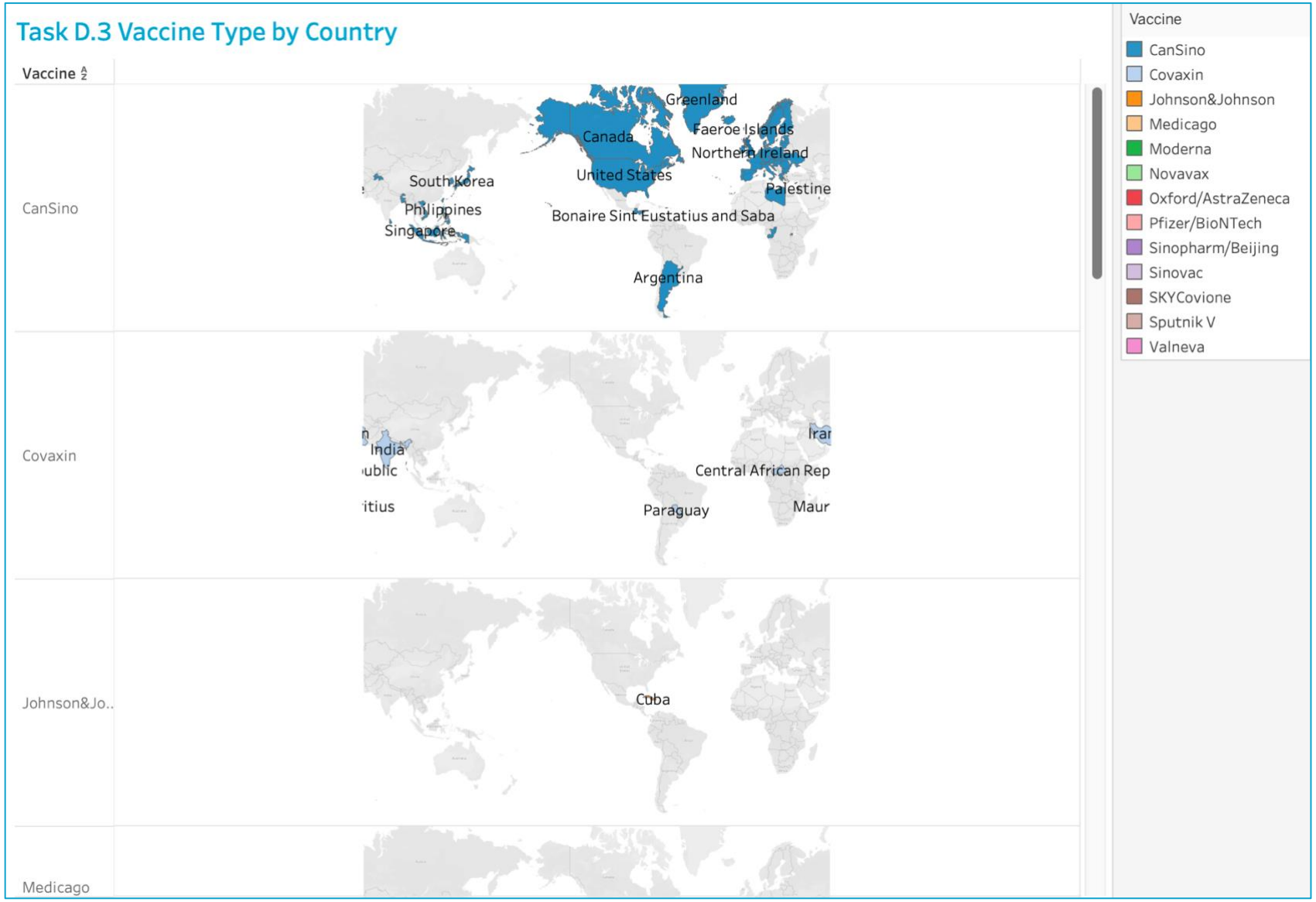
```
20 ------------------------------------------------------------------------------------------
21
22 /*Query 3*/
23 SELECT l.location AS Country, vc.vaccine_name AS Vaccine
24 FROM (Location l Join VaccineLocation vl ON  l.iso_code = vl.iso_code)
25                 Join Vaccines vc on vl.vaccine_id = vc.vaccine_id
26
27 ORDER BY Country ASC;
28
29 ------------------------------------------------------------------------------------------
30
```

Grid view | Form view

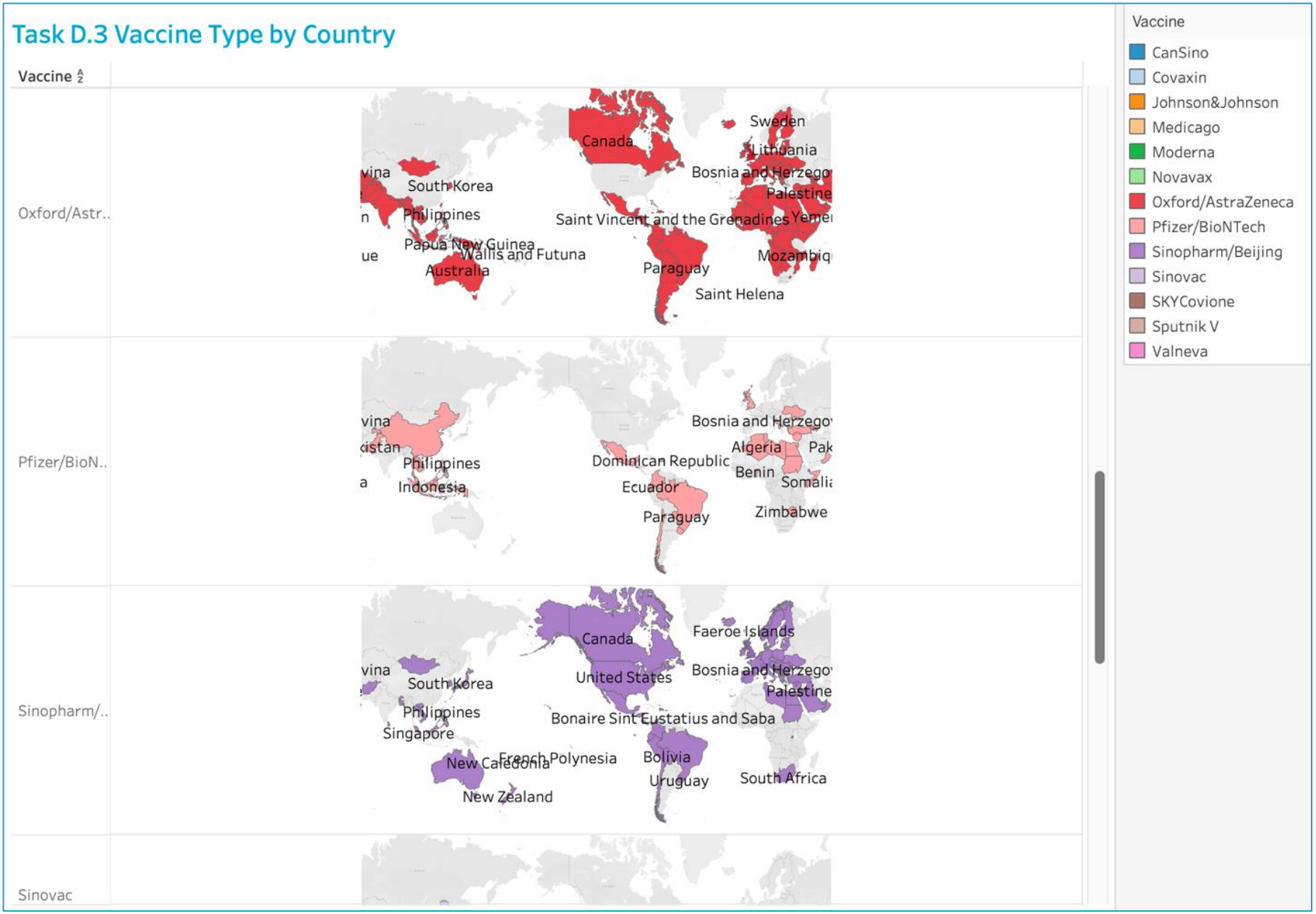
Total rows loaded: 563

	Country	Vaccine
1	Afghanistan	Valneva
2	Afghanistan	Oxford/AstraZeneca
3	Afghanistan	Sinopharm/Beijing
4	Afghanistan	Sputnik V
5	Albania	Oxford/AstraZeneca
6	Albania	Sinopharm/Beijing
7	Albania	Pfizer/BioNTech
8	Albania	Moderna
9	Algeria	Oxford/AstraZeneca
10	Algeria	Sputnik V
11	Algeria	Pfizer/BioNTech
12	Algeria	Moderna
13	Andorra	Oxford/AstraZeneca
14	Andorra	Sinopharm/Beijing
15	Angola	Oxford/AstraZeneca

Data Visualization



Task D.3 Vaccine Type by Country



Query 4

```
SELECT      sourcename||" ( "||sourcewebsite ||" )" AS 'Source Name(URL)',
            SUM(Total_vaccines_administered) AS 'Total Vaccines Administered'
FROM (
      SELECT s.source_name AS sourcename, s.source_website AS sourcewebsite,
      v.iso_code, MAX (IIF (v.total_vaccinations != "",v.total_vaccinations, NULL) ) AS
      Total_vaccines_administered
      FROM Vaccinations v LEFT JOIN Source s ON v.iso_code = s.iso_code
      WHERE s.source_name NOT NULL
      GROUP BY v.iso_code
      )
GROUP BY sourcewebsite
ORDER BY sourcename ASC;
```

Results

Query | History

```
29
30 /*Query 4*/
31 SELECT sourcename||" ( "||sourcewebsite ||" )" AS 'Source Name(URL)',
32        SUM(Total_vaccines_administered) AS 'Total Vaccines Administered'
33 FROM (
34        SELECT s.source_name AS sourcename, s.source_website AS sourcewebsite, v.iso_code,
35            MAX (IIF (v.total_vaccinations != "",v.total_vaccinations, NULL) ) AS Total_vaccines_administered
36            FROM Vaccinations v LEFT JOIN Source s ON v.iso_code = s.iso_code
37            WHERE s.source_name NOT NULL
38            GROUP BY v.iso_code
39                )
40 GROUP BY sourcewebsite
41 ORDER BY sourcename ASC;
42
```

Grid view | Form view

Total rows loaded: 91

	Source Name(URL)	Total Vaccines Administered
1	COVID-19 Malta Public Health Response Team (https://github.com/COVID19-Malta/COVID19-...	1335951
2	COVID-19 Vaccine Information Platform (https://covid19asi.saglik.gov.tr/)	152404335
3	Centers for Disease Control and Prevention (https://data.cdc.gov/Vaccinations/COVID-19-...	627854963
4	Directorate General of Health Services (http://103.247.238.92/webportal/pages/covid19-...	311263073
5	Directorate of Health (https://www.covid.is/tolulegar-upplysingar-boluefni)	805469
6	European CDC (https://info.gesundheitsministerium.gv.at/data/...	19558872
7	European CDC,via Marino van Zelst (https://www.ecdc.europa.eu/en/publications-data/data-...	61692128
8	Extraordinary commissioner for the Covid-19 emergency (https://raw.githubusercontent.com/...	141254143
9	Federal Office of Public Health (https://opendata.swiss/en/dataset/covid-19-schweiz?...	16022622
10	Federal Office of Public Health (https://opendata.swiss/en/dataset/covid-19-schweiz?detGeo=...	71469
11	Finnish Institute for Health and Welfare (https://sampo.thl.fi/pivot/prod/en/vaccreg/cov19cov/...	12863230
12	Food and Health Bureau (https://data.gov.hk/en-data/dataset/hk-fhb-fhbcovid19-vaccination-...	19608518
13	Government of Aruba (https://www.government.aw)	173591
14	Government of Australia via CovidBaseAU (https://covidbaseau.com/)	58494109

Data Visualization

Task D.4 Total Administered Vaccines by SourceName (URL)

Source Name(URL)	
Centers for Disease Control and Prevention (https://data.cdc.gov/Vaccinations/COVID-19-Vaccination-Trends-in-the-Un..	627,854,963
COVID-19 Malta Public Health Response Team (https://github.com/COVID19-Malta/COVID19-Cases)	1,335,951
COVID-19 Vaccine Information Platform (https://covid19asi.saglik.gov.tr/)	152,404,335
Directorate General of Health Services (http://103.247.238.92/webportal/pages/covid19-vaccination-update.php)	311,263,073
Directorate of Health (https://www.covid.is/tolulegar-upplysingar-boluefni)	805,469
European CDC (https://info.gesundheitsministerium.gv.at/data/COVID19_vaccination_doses_timeline_v202206.csv)	19,558,872
European CDC, via Marino van Zelst (https://www.ecdc.europa.eu/en/publications-data/data-covid-19-vaccination-eu-e..	61,692,128
Extraordinary commissioner for the Covid-19 emergency (https://raw.githubusercontent.com/italia/covid19-opendata-..	141,254,143
Federal Office of Public Health (https://opendata.swiss/en/dataset/covid-19-schweiz?detGeo=CH)	16,022,622
Federal Office of Public Health (https://opendata.swiss/en/dataset/covid-19-schweiz?detGeo=FL)	71,469
Finnish Institute for Health and Welfare (https://sampo.thl.fi/pivot/prod/en/vaccreg/cov19cov/fact_cov19cov)	12,863,230
Food and Health Bureau (https://data.gov.hk/en-data/dataset/hk-fhb-fhbcovid19-vaccination-rates-over-time-by-age)	19,608,518
Government of Aruba (https://www.government.aw)	173,591
Government of Australia via CovidBaseAU (https://covidbaseau.com/)	58,494,109
Government of Azerbaijan (https://koronavirusinfo.az)	13,857,111
Government of Curacao (https://bakuna.cw/)	255,837
Government of Ecuador via Ecuacovid (https://github.com/andrab/ecuacovid)	37,260,948
Government of Gibraltar (https://twitter.com/GibraltarGov/status/1517138573614477315)	119,855
Government of Greenland (https://corona.nun.gl)	79,745
Government of Guernsey (https://covid19.gov.gg/guidance/vaccine/stats)	157,708
Government of Hungary (https://koronavirus.gov.hu//cikkek/6-millio-419-ezer-beoltott-12-636-az-uj-fertozott-es-elhun..	16,530,488
Government of India (https://dashboard.cowin.gov.in/)	2,192,779,896
Government of Israel (https://datadashboard.health.gov.il/COVID-19/general)	18,239,170
Government of Jersey (https://www.gov.je/Datasets/ListOpenData?ListName=COVID19Weekly&clean=true)	250,253
Government of Kazakhstan (https://www.coronavirus2020.kz/)	20,918,681
Government of Luxembourg (https://data.public.lu/en/datasets/donnees-covid19/#_)	1,350,776
Government of Macao (https://www.ssm.gov.mo/docs/19164/19164_7e53f06c68fc467d8e3e3374d09bcc1a_000_.pdf)	1,507,144
Government of Malaysia (https://github.com/MoH-Malaysia/covid19-public)	72,160,624
Government of Montenegro (https://www.covidodgovor.me/)	679,171
Government of Saint Helena (https://www.sainthelena.gov.sh/2021/news/preliminary-data-from-the-covid-19-vaccina..	7,892
Government of Serbia (https://vakcinacija.gov.rs/)	8,534,688
Government of Singapore (https://data.gov.sg/dataset/covid-19-vaccination)	14,708,332
Government of Suriname (https://laatjevaccineren.sr/)	505,699

SUM(Total Vaccines Administered)

4,407 3,438,202,000

Query 5

```
SELECT CountryDailyVaccination.date As Date ,

MAX (IIF( CountryDailyVaccination.iso_code IN
                (
                SELECT iso_code
                FROM Location
                WHERE lower(location) LIKE 'australia'
                ),CountryDailyVaccination.people_fully_vaccinated,0)) AS 'Australia',

MAX (IIF( CountryDailyVaccination.iso_code IN
                (
                SELECT iso_code
                FROM Location
                WHERE lower(location) LIKE 'united states'
                ), CountryDailyVaccination.people_fully_vaccinated, 0)) AS 'United States',

MAX (IIF( CountryDailyVaccination.iso_code IN
                (
                SELECT iso_code
                FROM Location
                WHERE lower(location) LIKE 'germany'
                ), CountryDailyVaccination.people_fully_vaccinated,0)) AS 'Germany',

MAX (IIF( CountryDailyVaccination.iso_code IN
                (
                SELECT iso_code
                FROM Location
                WHERE lower(location) LIKE 'italy'
                ),CountryDailyVaccination.people_fully_vaccinated, 0)) AS 'Italy'

FROM CountryDailyVaccination
WHERE CountryDailyVaccination.date LIKE '%2022%'
GROUP BY CountryDailyVaccination.date
ORDER BY CountryDailyVaccination.date ASC;
```

Results

```sql
-----------------------------------------------------------------------------------------
/*Query 5*/

SELECT CountryDailyVaccination.date As Date ,

    MAX (IIF( CountryDailyVaccination.iso_code IN
    (
        SELECT iso_code
        FROM Location
        WHERE lower(location) LIKE 'australia'
        ),CountryDailyVaccination.people_fully_vaccinated,0)) AS 'Australia',

    MAX (IIF( CountryDailyVaccination.iso_code IN
    (
        SELECT iso_code
        FROM Location
        WHERE lower(location) LIKE 'united states'
    ), CountryDailyVaccination.people_fully_vaccinated, 0)) AS 'United States',

    MAX (IIF( CountryDailyVaccination.iso_code IN
    (
        SELECT iso_code
        FROM Location
        WHERE lower(location) LIKE 'germany'
    ), CountryDailyVaccination.people_fully_vaccinated,0)) AS 'Germany',

    MAX (IIF( CountryDailyVaccination.iso_code IN
    (
        SELECT iso_code
        FROM Location
        WHERE lower(location) LIKE 'italy'
    ),CountryDailyVaccination.people_fully_vaccinated, 0)) AS 'Italy'

FROM CountryDailyVaccination
WHERE CountryDailyVaccination.date LIKE '%2022%'
GROUP BY CountryDailyVaccination.date
ORDER BY CountryDailyVaccination.date ASC;
```

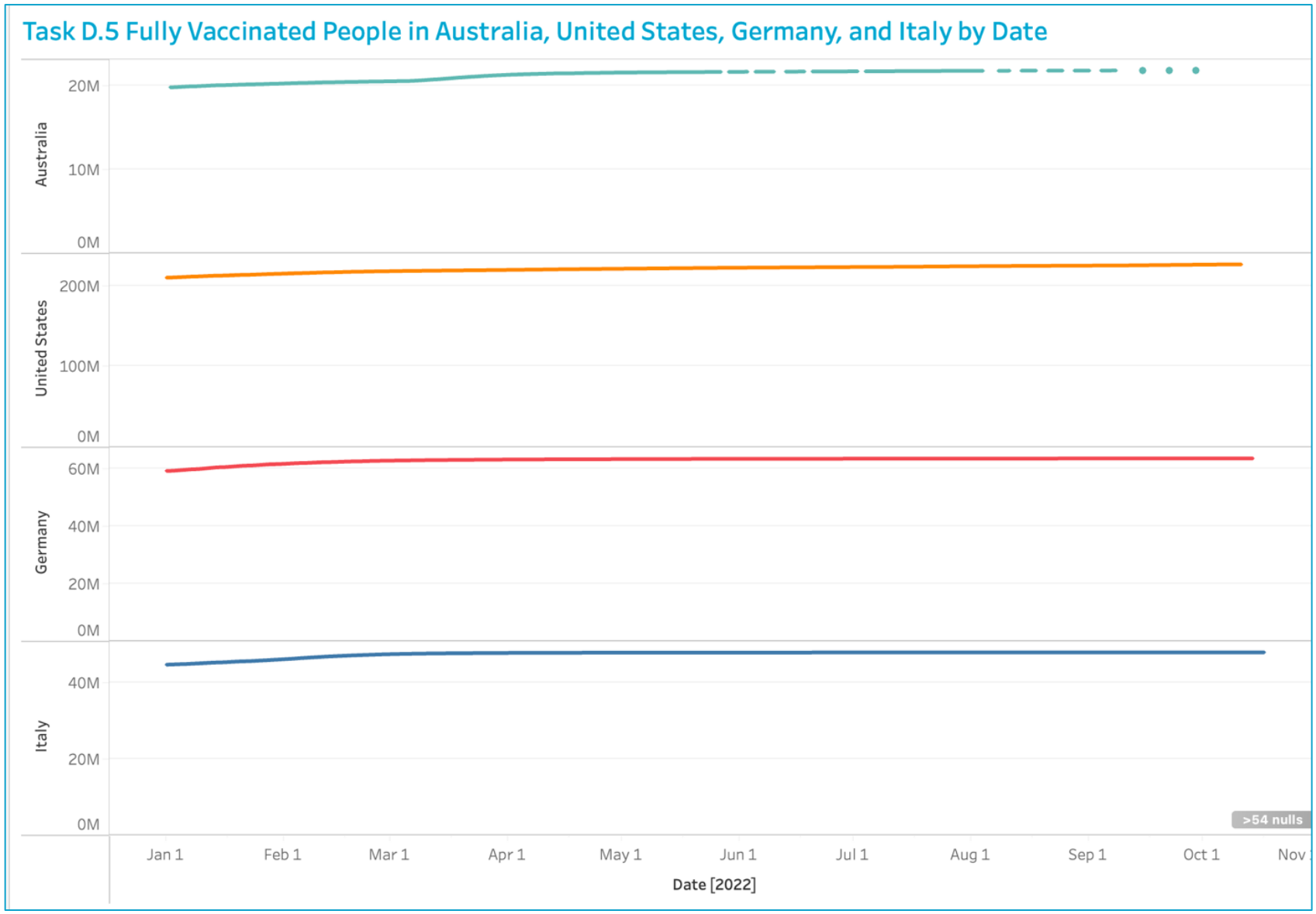
```sql
/*Query 5*/

SELECT CountryDailyVaccination.date As Date ,

    MAX (IIF( CountryDailyVaccination.iso_code IN
    (
        SELECT iso_code
        FROM Location
        WHERE lower(location) LIKE 'australia'
        ),CountryDailyVaccination.people_fully_vaccinated,0)) AS 'Australia',

```

Grid view | Form view

Total rows loaded: 290

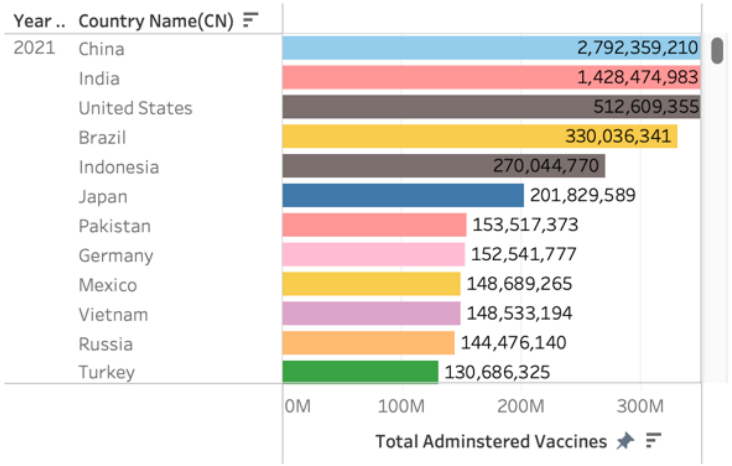
	Date	Australia	United States	Germany	Italy
1	1/1/2022	0	209826836	59135414	44752395
2	1/10/2022	0	225911561	63468754	47966662
3	1/2/2022	20228401	214799163	61590217	46174160
4	1/3/2022	20490408	217805415	62684099	47499174
5	1/4/2022	21260487	219370609	63088317	47824675
6	1/5/2022	21528799	220857797	63229569	47896756
7	1/6/2022	21616911	222085884	63313849	47924798
8	1/7/2022	21673357	222972698	63368015	47939260
9	1/8/2022	21732054	223899931	63408809	47951057
10	1/9/2022	21764309	224727908	63441598	47960017
11	10/1/2022	19928352	211456768	59835798	45109005
12	10/10/2022	0	226196432	63476037	47968171
13	10/2/2022	20339977	216047150	62084187	46739933
14	10/3/2022	20626131	218345571	62853752	47654706
15	10/4/2022	21378262	219841900	63141988	47853712
16	10/5/2022	21561125	221233653	63262843	47906736

Data Visualization

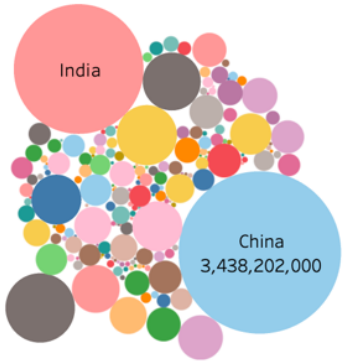


Dashboard for A Global Database of Covid-19 Vaccinations

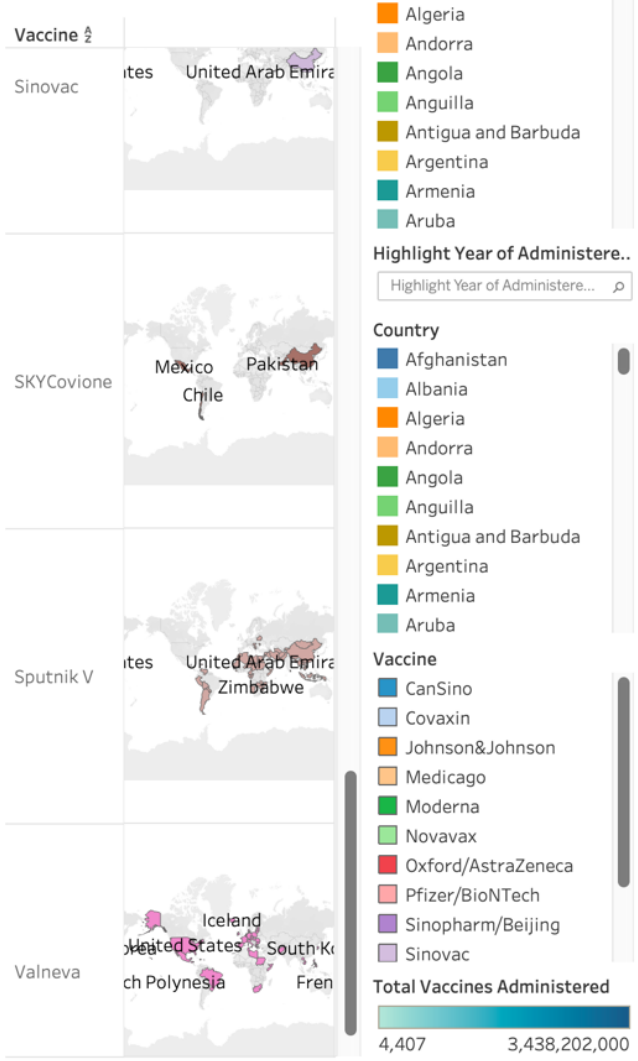
Task D.1 Total Administered Vaccines by Countries



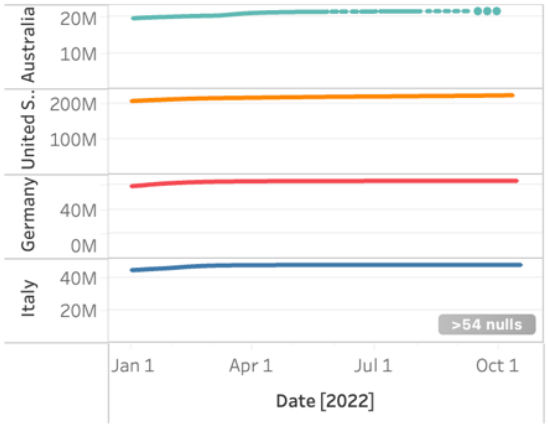
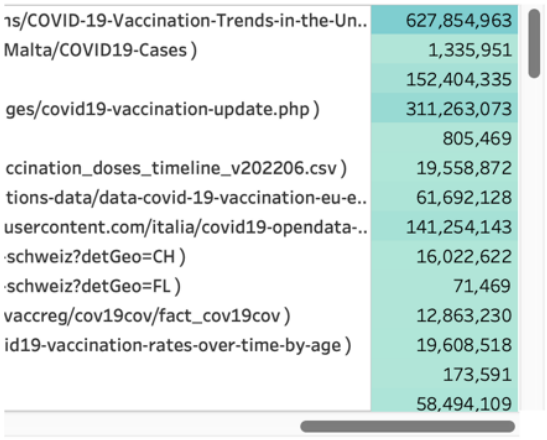
Task D.2 Cumulative Numbers of COVID-19 Doses Administered by Country.



Task D.3 Vaccine Type by Country



Task D.5 Fully Vaccinated People in Australia, United States, Germany, and Italy by Date



Task D.4 Total Administered Vaccines by SourceName (URL)