S3849118

IVAN ALEGRIA

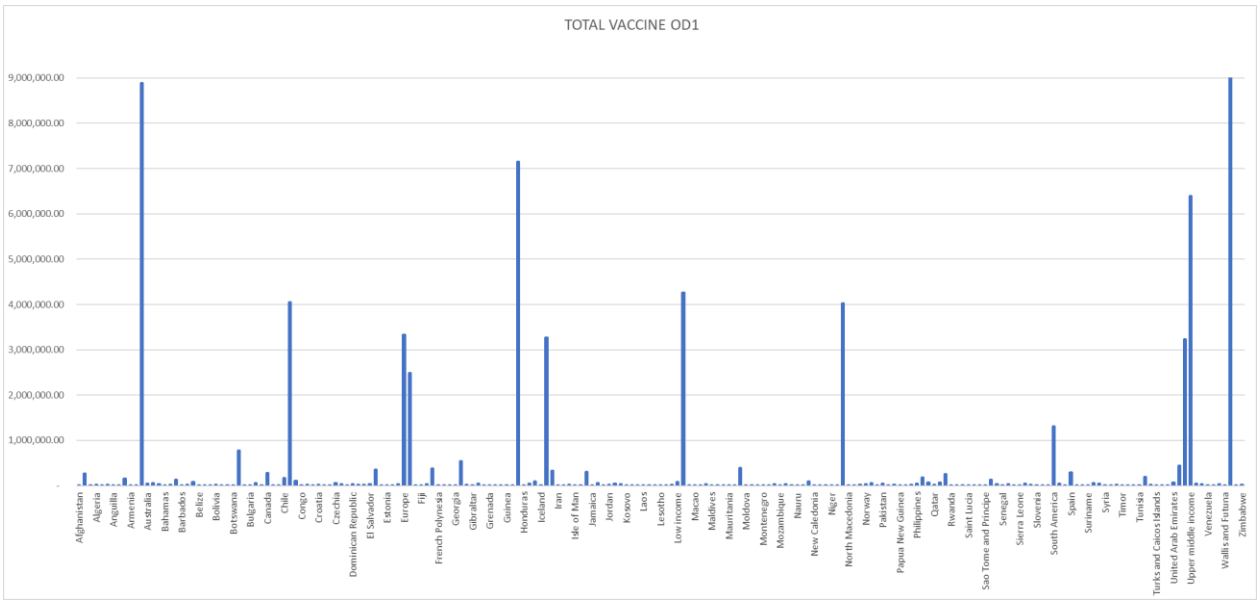
PART D: DATA RETRIEVAL AND VISUALISATION

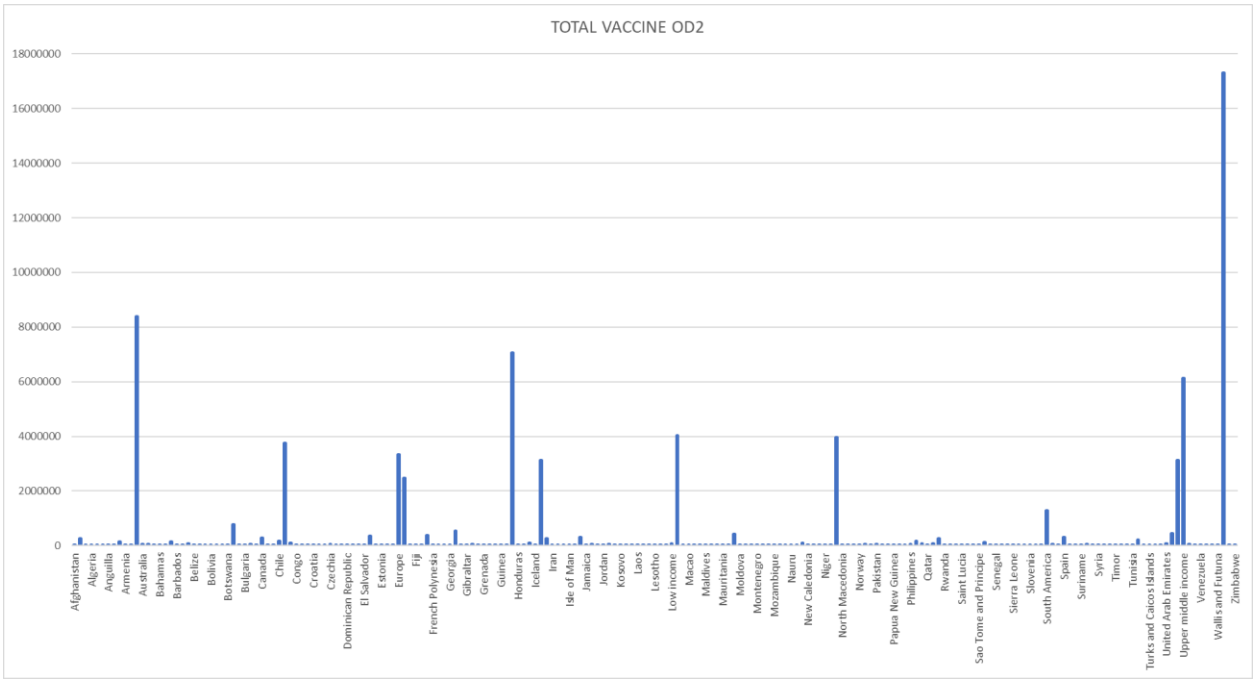
D1.

```
SELECT TC.OBSERVATION_DATE AS 'OBSERVATION DATE 1', L.COUNTRY_NAME AS
'COUNTRY',TC.DAILY_VACCINATIONS AS 'TOTAL VACCINE OD1',TD.OBSERVATION_DATE AS
'OBSERVATION DATE 2'
,TD.DAILY_VACCINATIONS AS 'TOTAL VACCINE OD2', TC.DAILY_VACCINATIONS-
TD.DAILY_VACCINATIONS AS 'DIFFERENCE OF TOTALS'
FROM LOCATIONS L INNER JOIN TOTAL_VACCINATION TC ON L.ISO_CODE = TC.ISO_CODE AND
TC.OBSERVATION_DATE = '4/15/2021'
INNER JOIN TOTAL_VACCINATION TD ON L.ISO_CODE = TD.ISO_CODE AND
TD.OBSERVATION_DATE = '4/16/2021';
```

Total rows loaded: 205

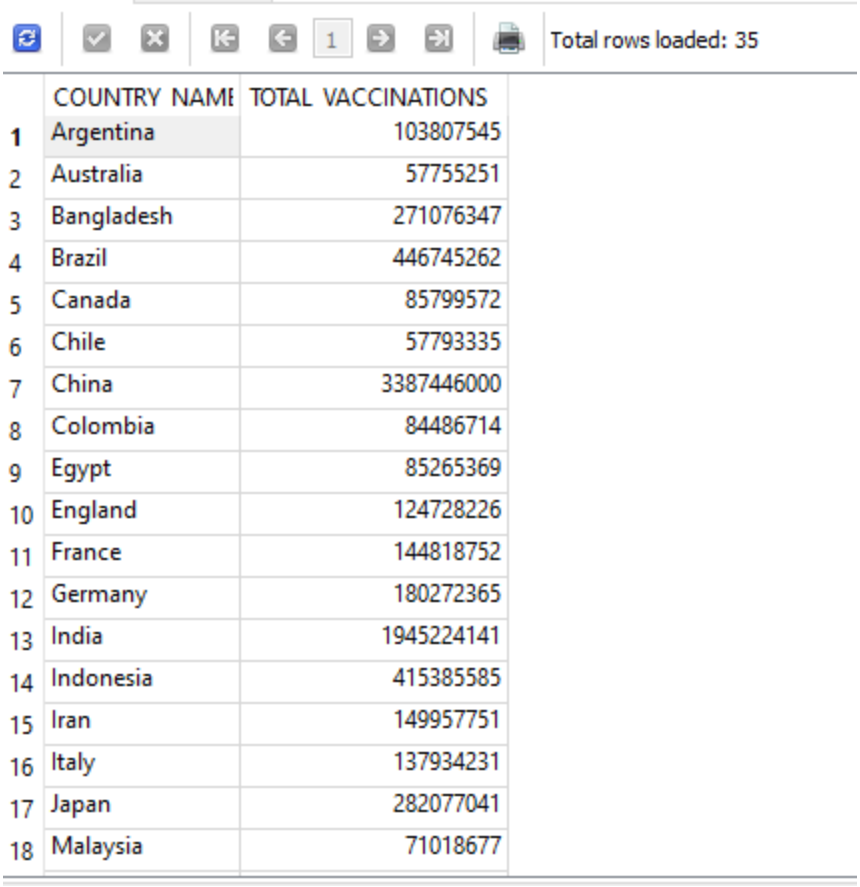
	OBSERVATION DATE 1	COUNTRY	TOTAL VACCINE OD1	OBSERVATION DATE 2	TOTAL VACCINE OD2	DIFFERENC
1	4/15/2021	Afghanistan	8000	4/16/2021	8000	0
2	4/15/2021	Africa	265885	4/16/2021	267243	-1358
3	4/15/2021	Albania	8849	4/16/2021	9135	-286
4	4/15/2021	Algeria	22369	4/16/2021	22369	0
5	4/15/2021	Andorra	862	4/16/2021	969	-107
6	4/15/2021	Angola	16189	4/16/2021	17043	-854
7	4/15/2021	Anguilla	57	4/16/2021	69	-12
8	4/15/2021	Antigua and Barbuda	102	4/16/2021	154	-52
9	4/15/2021	Argentina	153178	4/16/2021	136510	16668
10	4/15/2021	Armenia	261	4/16/2021	261	0
11	4/15/2021	Aruba	1715	4/16/2021	1877	-162
12	4/15/2021	Asia	8885780	4/16/2021	8380643	505137
13	4/15/2021	Australia	49009	4/16/2021	47956	1053
14	4/15/2021	Austria	53374	4/16/2021	53804	-430
15	4/15/2021	Azerbaijan	28900	4/16/2021	26800	2100
16	4/15/2021	Bahamas	974	4/16/2021	905	69
17	4/15/2021	Bahrain	18207	4/16/2021	17606	601
18	4/15/2021	Bangladesh	136029	4/16/2021	146920	-10891


TOTAL VACCINE OD1
9,000,000.00
8,000,000.00
7,000,000.00
6,000,000.00
5,000,000.00
4,000,000.00
3,000,000.00
2,000,000.00
1,000,000.00
-
Afghanistan
Algeria
Anguilla
Armenia
Australia
Bahamas
Barbados
Belize
Bolivia
Botswana
Bulgaria
Canada
Chile
Congo
Croatia
Czechia
Dominican Republic
El Salvador
Estonia
Europe
Fiji
French Polynesia
Georgia
Gibraltar
Grenada
Guinea
Honduras
Iceland
Iran
Isle of Man
Jamaica
Jordan
Kosovo
Laos
Lesotho
Low income
Macao
Maldives
Mauritania
Moldova
Montenegro
Mozambique
Nauru
New Caledonia
Niger
North Macedonia
Norway
Pakistan
Papua New Guinea
Philippines
Qatar
Rwanda
Saint Lucia
Sao Tome and Principe
Senegal
Sierra Leone
Slovenia
South America
Spain
Suriname
Syria
Timor
Tunisia
Turks and Caicos Islands
United Arab Emirates
Upper middle income
Venezuela
Wallis and Futuna
Zimbabwe


TOTAL VACCINE OD2
18000000
16000000
14000000
12000000
10000000
8000000
6000000
4000000
2000000
0
Afghanistan
Algeria
Anguilla
Armenia
Australia
Bahamas
Barbados
Belize
Bolivia
Botswana
Bulgaria
Canada
Chile
Congo
Croatia
Czechia
Dominican Republic
El Salvador
Estonia
Europe
Fiji
French Polynesia
Georgia
Gibraltar
Grenada
Guinea
Honduras
Iceland
Iran
Isle of Man
Jamaica
Jordan
Kosovo
Laos
Lesotho
Low income
Macao
Maldives
Mauritania
Moldova
Montenegro
Mozambique
Nauru
New Caledonia
Niger
North Macedonia
Norway
Pakistan
Papua New Guinea
Philippines
Qatar
Rwanda
Saint Lucia
Sao Tome and Principe
Senegal
Sierra Leone
Slovenia
South America
Spain
Suriname
Syria
Timor
Tunisia
Turks and Caicos Islands
United Arab Emirates
Upper middle income
Venezuela
Wallis and Futuna
Zimbabwe

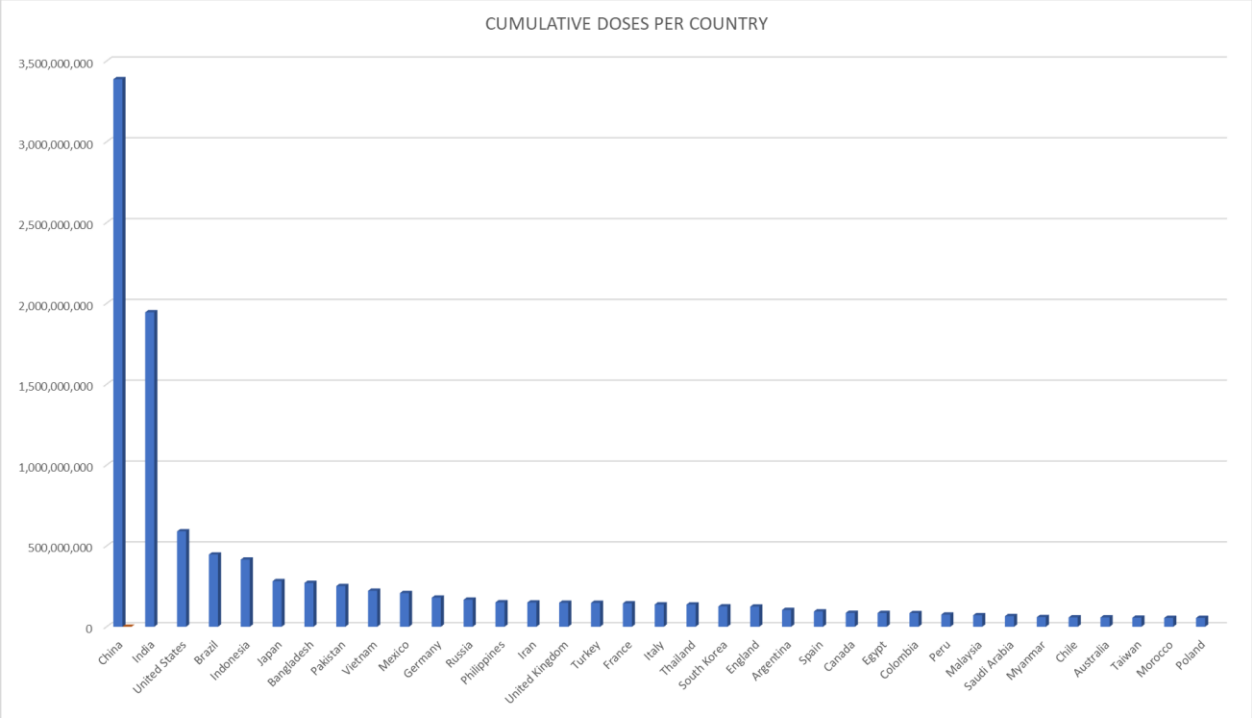
D2.

```
SELECT L.COUNTRY_NAME,TV.TOTAL_VACCINATIONS FROM
TOTAL_VACCINATION TV INNER JOIN CURRENT_OBSERVATION CO ON TV.ISO_CODE =
CO.ISO_CODE AND TV.OBSERVATION_DATE = CO.LAST_OBSERVATION_DATE AND
TV.TOTAL_VACCINATIONS <> ''
INNER JOIN LOCATIONS L ON L.ISO_CODE = CO.ISO_CODE
WHERE TV.TOTAL_VACCINATIONS > (SELECT ROUND(AVG( TOTAL_VACCINATIONS),2) FROM
TOTAL_VACCINATION TV INNER JOIN CURRENT_OBSERVATION CO ON TV.ISO_CODE =
CO.ISO_CODE AND TV.OBSERVATION_DATE = CO.LAST_OBSERVATION_DATE );
```



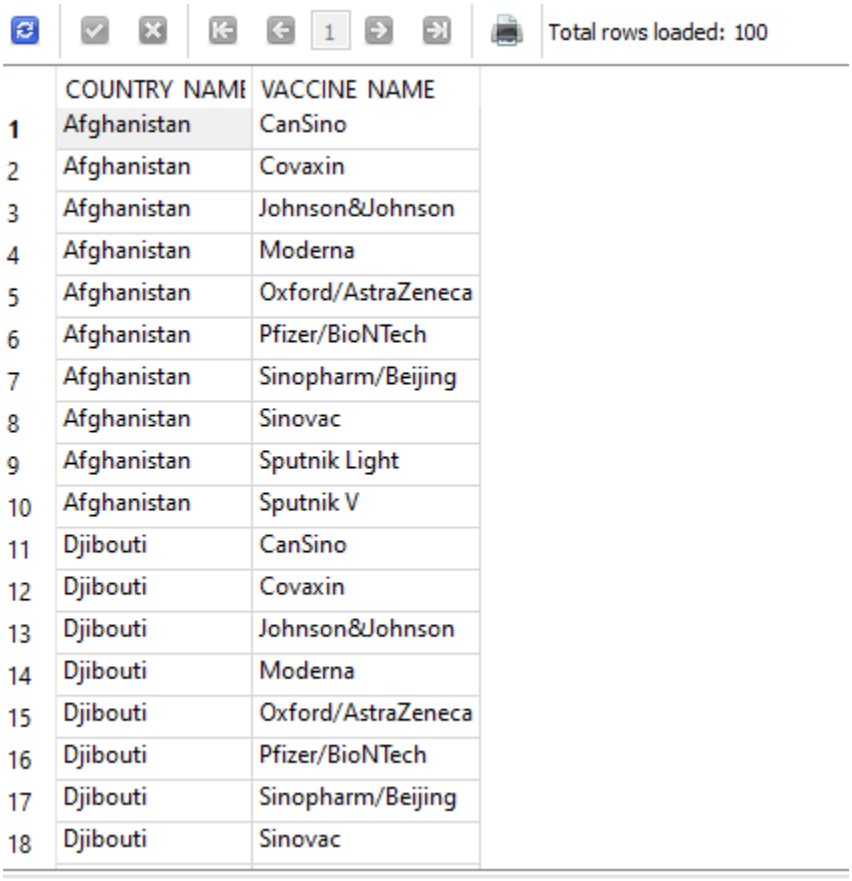
Total rows loaded: 35

	COUNTRY_NAME	TOTAL_VACCINATIONS
1	Argentina	103807545
2	Australia	57755251
3	Bangladesh	271076347
4	Brazil	446745262
5	Canada	85799572
6	Chile	57793335
7	China	3387446000
8	Colombia	84486714
9	Egypt	85265369
10	England	124728226
11	France	144818752
12	Germany	180272365
13	India	1945224141
14	Indonesia	415385585
15	Iran	149957751
16	Italy	137934231
17	Japan	282077041
18	Malaysia	71018677

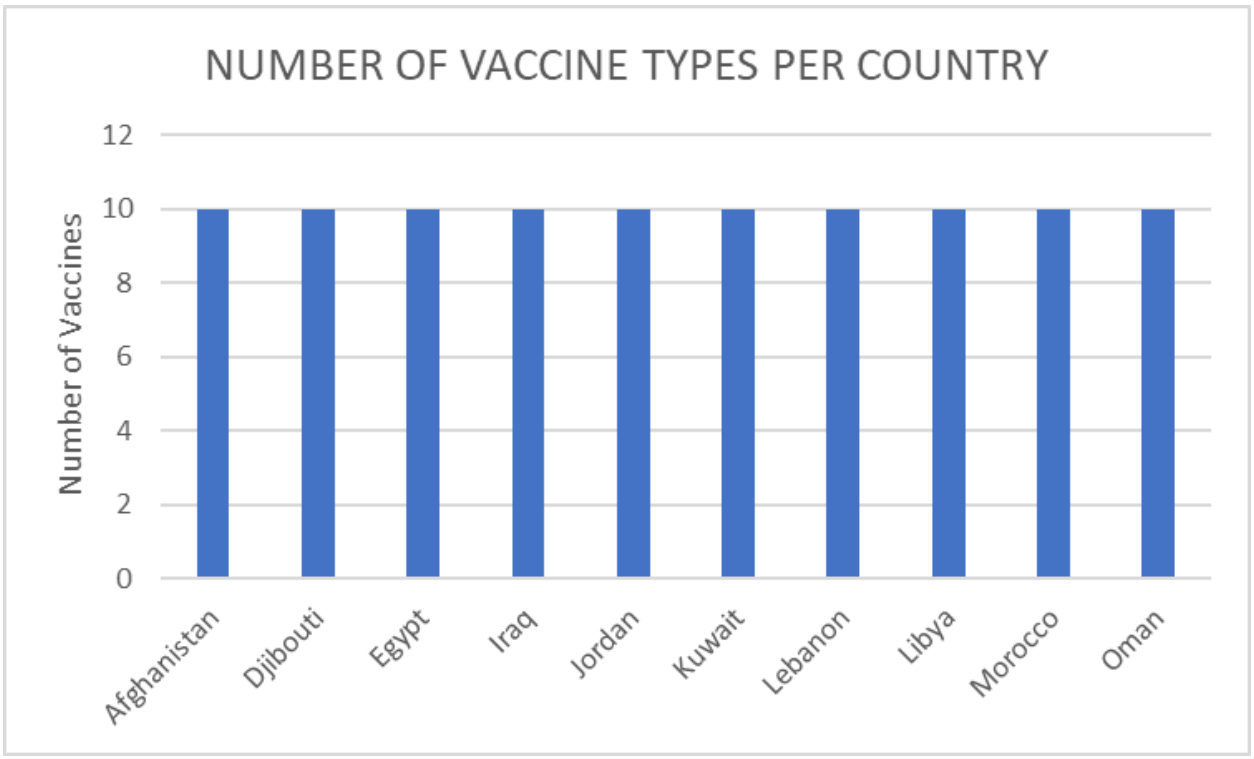

CUMULATIVE DOSES PER COUNTRY
3,500,000,000
3,000,000,000
2,500,000,000
2,000,000,000
1,500,000,000
1,000,000,000
500,000,000
0
China
India
United States
Brazil
Indonesia
Japan
Bangladesh
Pakistan
Vietnam
Mexico
Germany
Russia
Philippines
Iran
United Kingdom
Turkey
France
Italy
Thailand
South Korea
England
Argentina
Spain
Canada
Egypt
Colombia
Peru
Malaysia
Saudi Arabia
Myanmar
Chile
Australia
Taiwan
Morocco
Poland

D3.

```
SELECT L.COUNTRY_NAME,V.VACCINE_NAME FROM LOCATIONS L INNER JOIN
LOCATION_VACCINES LC ON L.ISO_CODE = LC.ISO_CODE
INNER JOIN VACCINES V ON V.VACCINE_ID = LC.VACCINE_ID
WHERE L.ISO_CODE IN (
SELECT ISO_CODE FROM LOCATION_VACCINES
GROUP BY ISO_CODE
ORDER BY COUNT(VACCINE_ID) DESC, ISO_CODE ASC
LIMIT 10
);
```

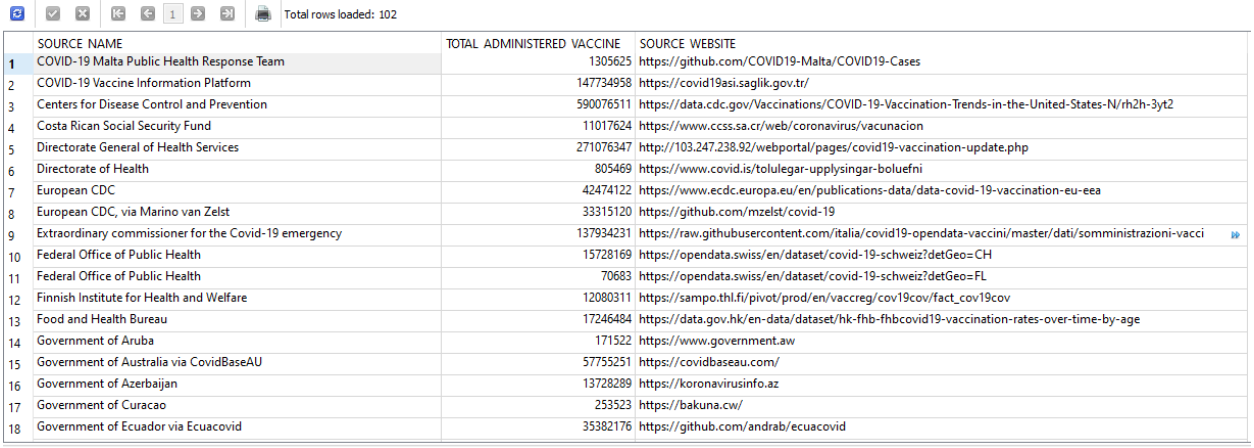


	COUNTRY_NAME	VACCINE_NAME
1	Afghanistan	CanSino
2	Afghanistan	Covaxin
3	Afghanistan	Johnson&Johnson
4	Afghanistan	Moderna
5	Afghanistan	Oxford/AstraZeneca
6	Afghanistan	Pfizer/BioNTech
7	Afghanistan	Sinopharm/Beijing
8	Afghanistan	Sinovac
9	Afghanistan	Sputnik Light
10	Afghanistan	Sputnik V
11	Djibouti	CanSino
12	Djibouti	Covaxin
13	Djibouti	Johnson&Johnson
14	Djibouti	Moderna
15	Djibouti	Oxford/AstraZeneca
16	Djibouti	Pfizer/BioNTech
17	Djibouti	Sinopharm/Beijing
18	Djibouti	Sinovac


NUMBER OF VACCINE TYPES PER COUNTRY
Number of Vaccines
12
10
8
6
4
2
0
Afghanistan
Djibouti
Egypt
Iraq
Jordan
Kuwait
Lebanon
Libya
Morocco
Oman

D4.

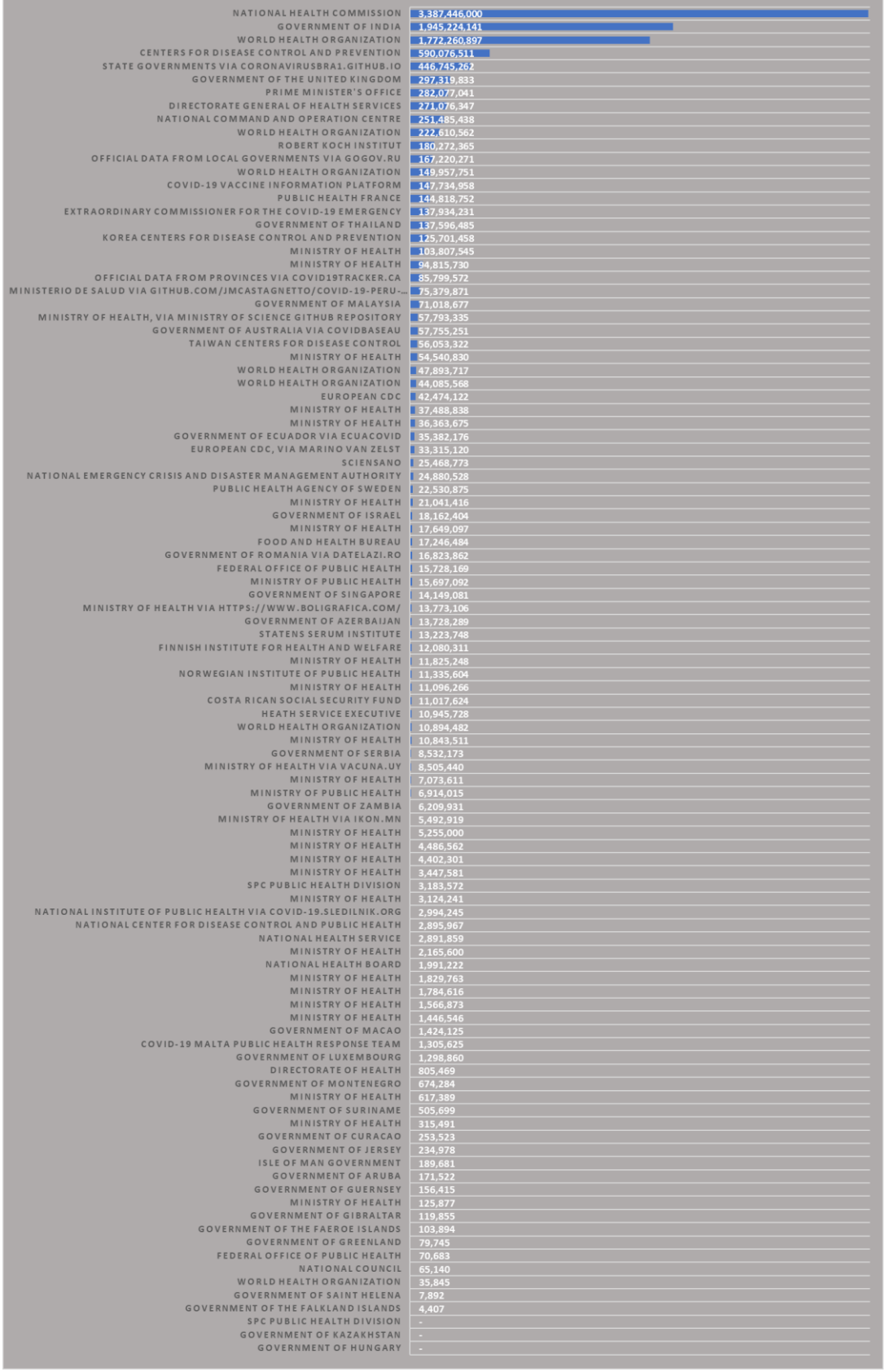
```
SELECT S.SOURCE_NAME,SUM(TOTAL_VACCINATIONS) TOTAL_ADMINISTERED_VACCINE,
SOURCE_WEBSITE FROM CURRENT_OBSERVATION CO INNER JOIN SOURCE S ON
CO.SOURCE_ID = S.SOURCE_ID
INNER JOIN TOTAL_VACCINATION TV ON TV.ISO_CODE = CO.ISO_CODE AND
TV.OBSERVATION_DATE = CO.LAST_OBSERVATION_DATE
GROUP BY S.SOURCE_ID
ORDER BY S.SOURCE_NAME, SOURCE_WEBSITE;
```



Total rows loaded: 102

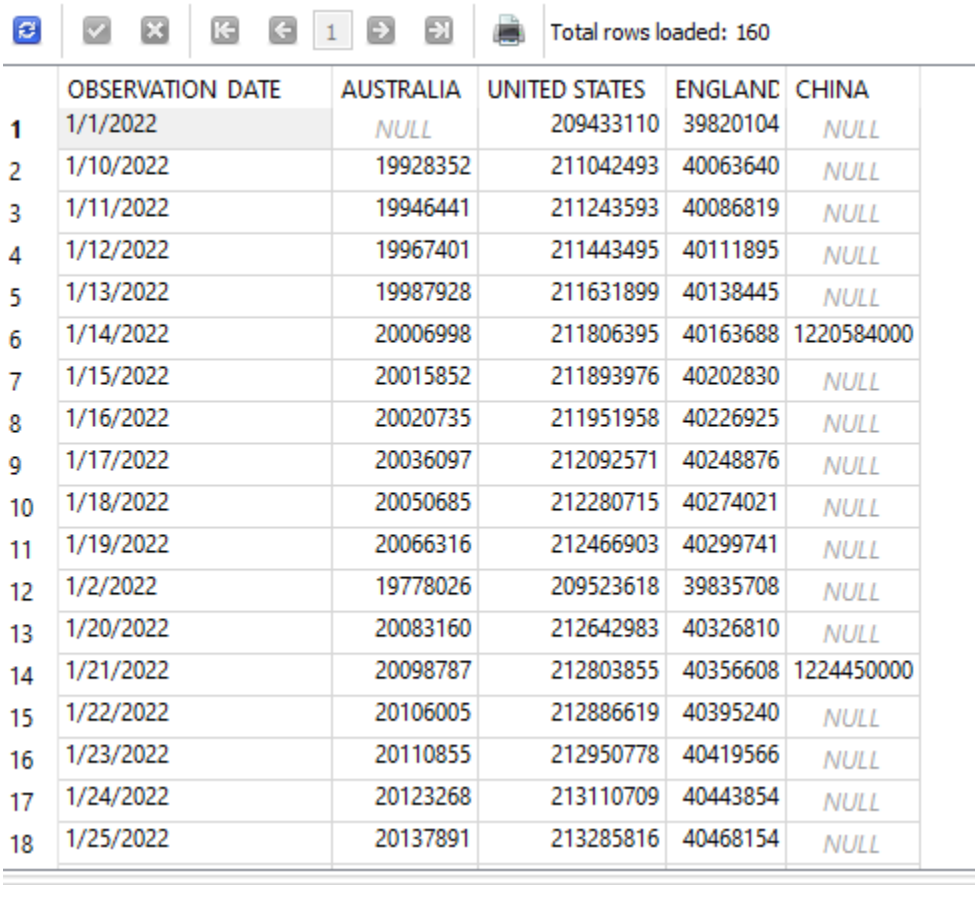
	SOURCE NAME	TOTAL ADMINISTERED VACCINE	SOURCE WEBSITE
1	COVID-19 Malta Public Health Response Team	1305625	https://github.com/COVID19-Malta/COVID19-Cases
2	COVID-19 Vaccine Information Platform	147734958	https://covid19asi.saglik.gov.tr/
3	Centers for Disease Control and Prevention	590076511	https://data.cdc.gov/Vaccinations/COVID-19-Vaccination-Trends-in-the-United-States-N/rh2h-3yt2
4	Costa Rican Social Security Fund	11017624	https://www.ccss.sa.cr/web/coronavirus/vacunacion
5	Directorate General of Health Services	271076347	http://103.247.238.92/webportal/pages/covid19-vaccination-update.php
6	Directorate of Health	805469	https://www.covid.is/tolulegar-upplysingar-boluefni
7	European CDC	42474122	https://www.ecdc.europa.eu/en/publications-data/data-covid-19-vaccination-eu-eea
8	European CDC, via Marino van Zelst	33315120	https://github.com/mzelst/covid-19
9	Extraordinary commissioner for the Covid-19 emergency	137934231	https://raw.githubusercontent.com/italia/covid19-opendata-vaccini/master/dati/somministrazioni-vacci
10	Federal Office of Public Health	15728169	https://opendata.swiss/en/dataset/covid-19-schweiz?detGeo=CH
11	Federal Office of Public Health	70683	https://opendata.swiss/en/dataset/covid-19-schweiz?detGeo=FL
12	Finnish Institute for Health and Welfare	12080311	https://sampo.thl.fi/pivot/prod/en/vaccreg/cov19cov/fact_cov19cov
13	Food and Health Bureau	17246484	https://data.gov.hk/en-data/dataset/hk-fhb-fhbcovid19-vaccination-rates-over-time-by-age
14	Government of Aruba	171522	https://www.government.aw
15	Government of Australia via CovidBaseAU	57755251	https://covidbaseau.com/
16	Government of Azerbaijan	13728289	https://koronavirusinfo.az
17	Government of Curacao	253523	https://bakuna.cw/
18	Government of Ecuador via Ecuacovid	35382176	https://github.com/andrab/ecuacovid

TOTAL ADMINISTERED VACCINES PER EACH DATA SOURCE



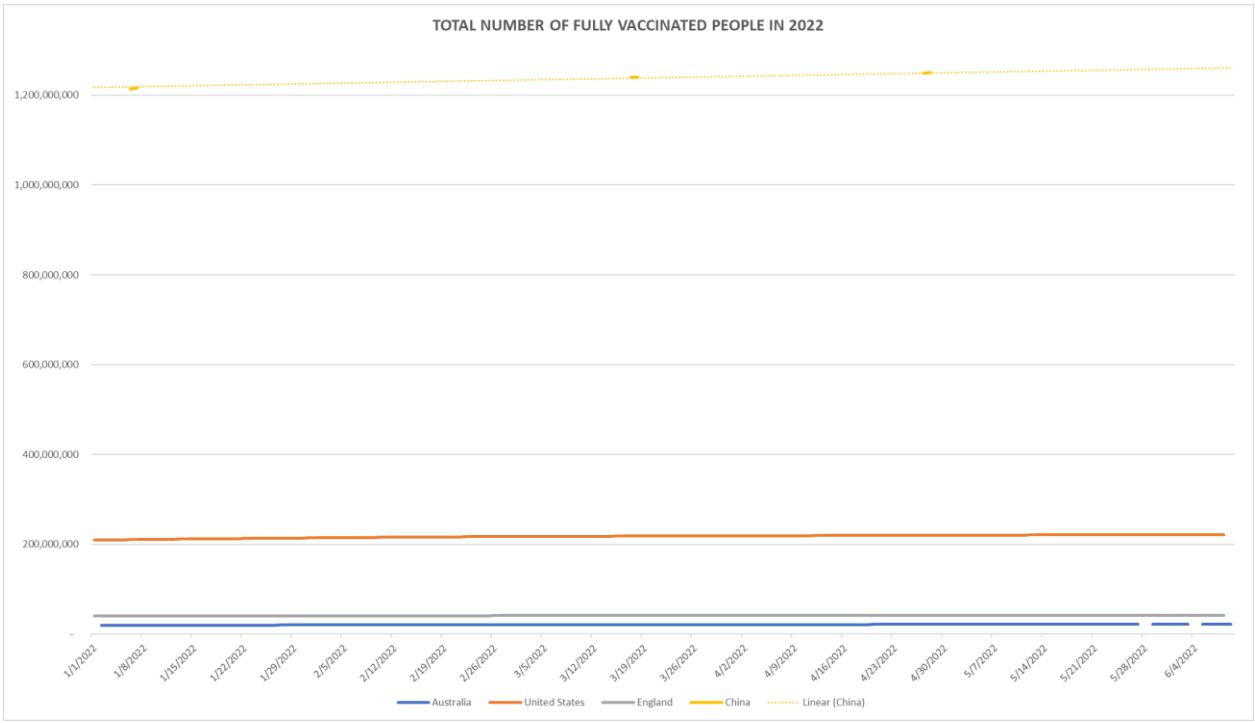
D5.

```
SELECT DISTINCT M.OBSERVATION_DATE,AU.PEOPLE_FULLY_VACCINATED AS
'AUSTRALIA',US.PEOPLE_FULLY_VACCINATED AS 'UNITED
STATES',EN.PEOPLE_FULLY_VACCINATED AS 'ENGLAND' ,CH.PEOPLE_FULLY_VACCINATED AS
'CHINA'
FROM TOTAL_VACCINATION M
LEFT JOIN TOTAL_VACCINATION AU ON M.OBSERVATION_DATE = AU.OBSERVATION_DATE AND
AU.ISO_CODE = 'AUS' AND AU.PEOPLE_FULLY_VACCINATED <> ''
LEFT JOIN TOTAL_VACCINATION US ON M.OBSERVATION_DATE = US.OBSERVATION_DATE AND
US.ISO_CODE = 'USA' AND US.PEOPLE_FULLY_VACCINATED <> ''
LEFT JOIN TOTAL_VACCINATION EN ON M.OBSERVATION_DATE = EN.OBSERVATION_DATE AND
EN.ISO_CODE = 'OWID_ENG' AND EN.PEOPLE_FULLY_VACCINATED <> ''
LEFT JOIN TOTAL_VACCINATION CH ON M.OBSERVATION_DATE = CH.OBSERVATION_DATE AND
CH.ISO_CODE = 'CHN' AND CH.PEOPLE_FULLY_VACCINATED <> ''
WHERE M.OBSERVATION_DATE LIKE '%2022' AND M.ISO_CODE IN
('AUS','USA','OWID_ENG','CHN');
```



Total rows loaded: 160

	OBSERVATION_DATE	AUSTRALIA	UNITED STATES	ENGLAND	CHINA
1	1/1/2022	NULL	209433110	39820104	NULL
2	1/10/2022	19928352	211042493	40063640	NULL
3	1/11/2022	19946441	211243593	40086819	NULL
4	1/12/2022	19967401	211443495	40111895	NULL
5	1/13/2022	19987928	211631899	40138445	NULL
6	1/14/2022	20006998	211806395	40163688	1220584000
7	1/15/2022	20015852	211893976	40202830	NULL
8	1/16/2022	20020735	211951958	40226925	NULL
9	1/17/2022	20036097	212092571	40248876	NULL
10	1/18/2022	20050685	212280715	40274021	NULL
11	1/19/2022	20066316	212466903	40299741	NULL
12	1/2/2022	19778026	209523618	39835708	NULL
13	1/20/2022	20083160	212642983	40326810	NULL
14	1/21/2022	20098787	212803855	40356608	1224450000
15	1/22/2022	20106005	212886619	40395240	NULL
16	1/23/2022	20110855	212950778	40419566	NULL
17	1/24/2022	20123268	213110709	40443854	NULL
18	1/25/2022	20137891	213285816	40468154	NULL


TOTAL NUMBER OF FULLY VACCINATED PEOPLE IN 2022
1,200,000,000
1,000,000,000
800,000,000
600,000,000
400,000,000
200,000,000
-
1/1/2022
1/8/2022
1/15/2022
1/22/2022
1/29/2022
2/5/2022
2/12/2022
2/19/2022
2/26/2022
3/5/2022
3/12/2022
3/19/2022
3/26/2022
4/2/2022
4/9/2022
4/16/2022
4/23/2022
4/30/2022
5/7/2022
5/14/2022
5/21/2022
5/28/2022
6/4/2022
Australia
United States
England
China
Linear (China)