Task D.1:-

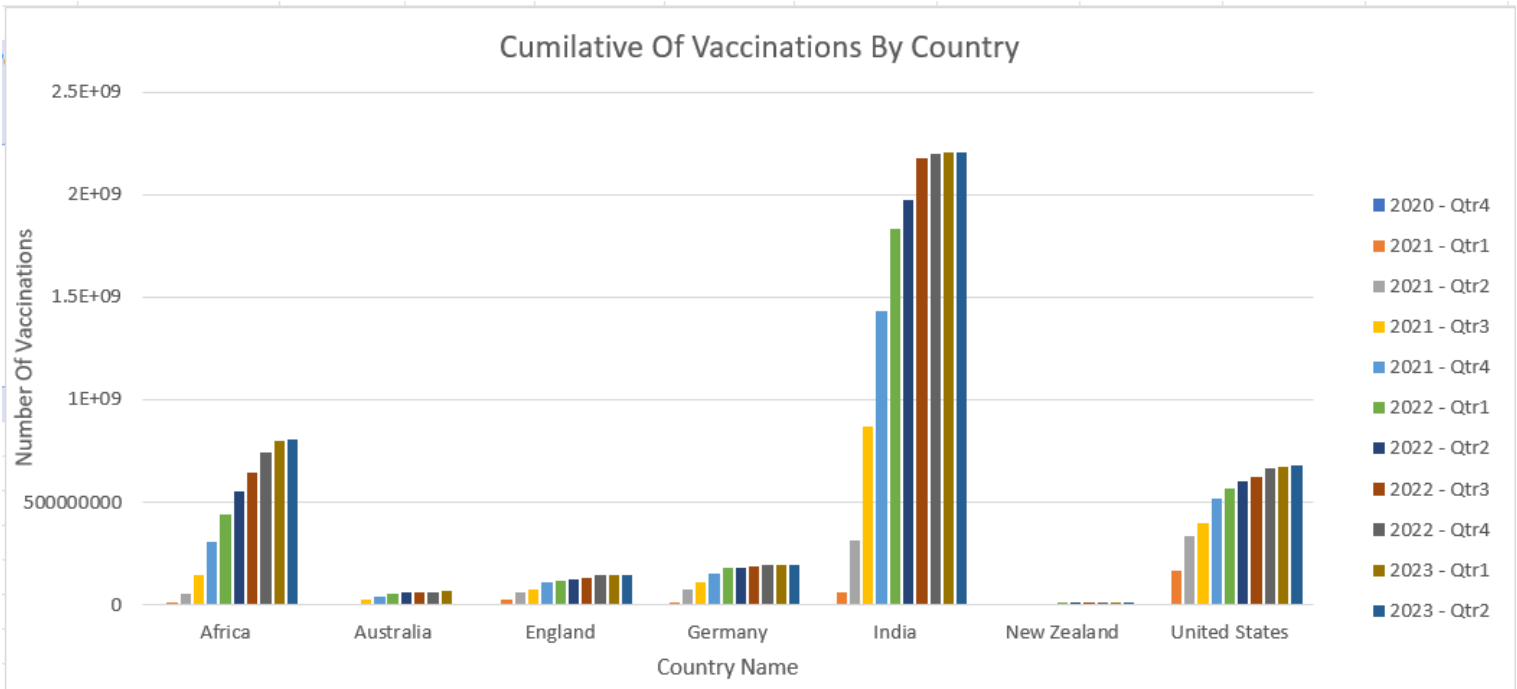**Query: -**

SELECT
V.Country_Name AS "Country_Name",
V.Date AS "Vaccination_On_Particular_Day_Number",
(
SELECT SUM(V1.Daily_Vaccinations)
FROM Vaccination V1
WHERE V1.Country_Name = V.Country_Name
AND V1.Date <= V.Date
) AS "Total_Injected_People"
FROM Vaccination V
ORDER BY V.Country_Name, V.Date;

Query Result: -

Grid view	Form view	

Total rows loaded: 170691

	Country_Name	Vaccination_On_Particular_Day_Number	Total_Injected_People
1	Afghanistan	2021-02-22	NULL
2	Afghanistan	2021-02-23	1367
3	Afghanistan	2021-02-24	2734
4	Afghanistan	2021-02-25	4101
5	Afghanistan	2021-02-26	5468
6	Afghanistan	2021-02-27	6835
7	Afghanistan	2021-02-28	8202
8	Afghanistan	2021-03-01	9782
9	Afghanistan	2021-03-02	11576
10	Afghanistan	2021-03-03	13584

Visualizing the data for Some country using the Pivot table and Pivot chart function in Excel.

Task D.2:-

**This Query will give the sum of Queries which were administered by the Each Country.**

SELECT Country_Name AS Country, MAX(Total_Vaccinations) AS "Cumulative Doses"
FROM Vaccination
GROUP BY Country_Name order by "Cumulative Doses" desc;

Query Result: -

Country	Cumulative Doses
India	2206684650
Europe	1384288212
North America	1150485616
South America	957287094
European Union	942136393
Africa	807454591
United States	676728782
Brazil	486436436
Indonesia	444303130
Japan	383747738

Total rows loaded: 235

Data Visualization (Excel): -

The graph gives the information about the number of vaccinations administered in particular Continent and Country.
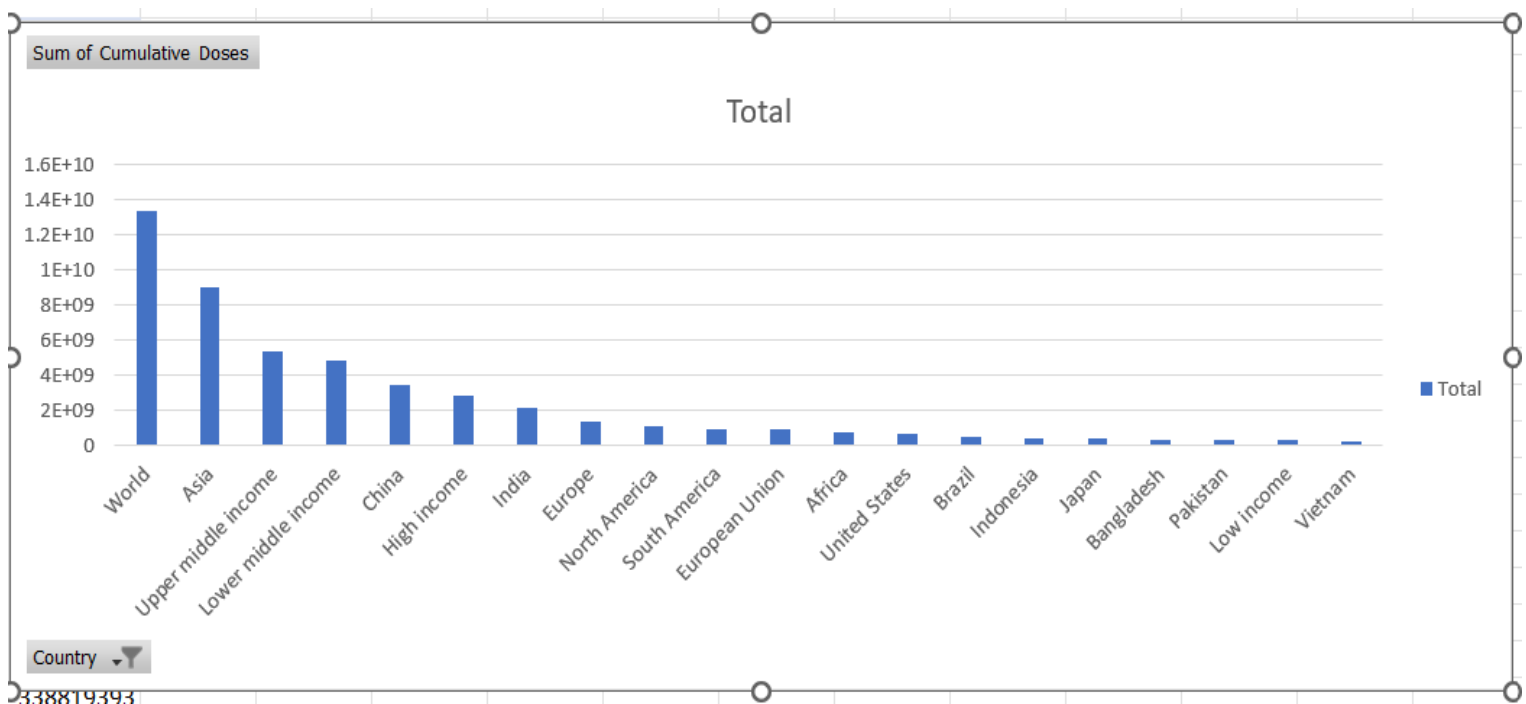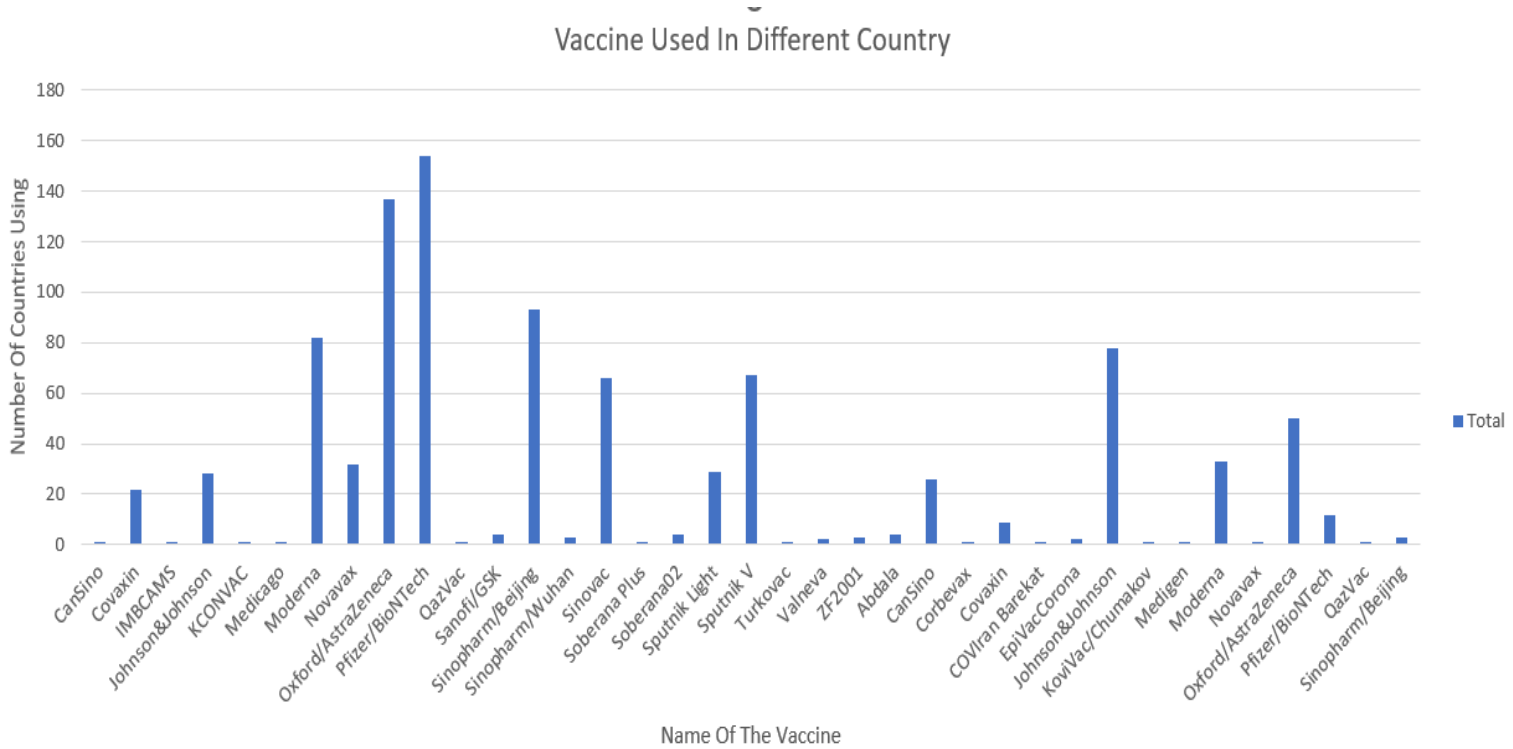
Task D.3:-

Query: -

SELECT Vaccine_Name AS Vaccine_Type,
Country_Name AS Country
FROM Location
ORDER BY Vaccine_Name,
Country_Name;

Query Result: -

Vaccine_Type	Country
CanSino	Iran
Covaxin	Afghanistan
Covaxin	Bahrain
Covaxin	Djibouti
Covaxin	Egypt
Covaxin	India
Covaxin	Iran
Covaxin	Iraq
Covaxin	Jordan
Covaxin	Kuwait

Total rows loaded: 956

Data Visualization(Excel): -

This Visualization gives the information about the particular vaccine which is used in how many countries. We can clearly see from the graph that Pfizer/BioNTech is the most widely used vaccine world wide.

Vaccine Used In Different Country

Task D.4 :-

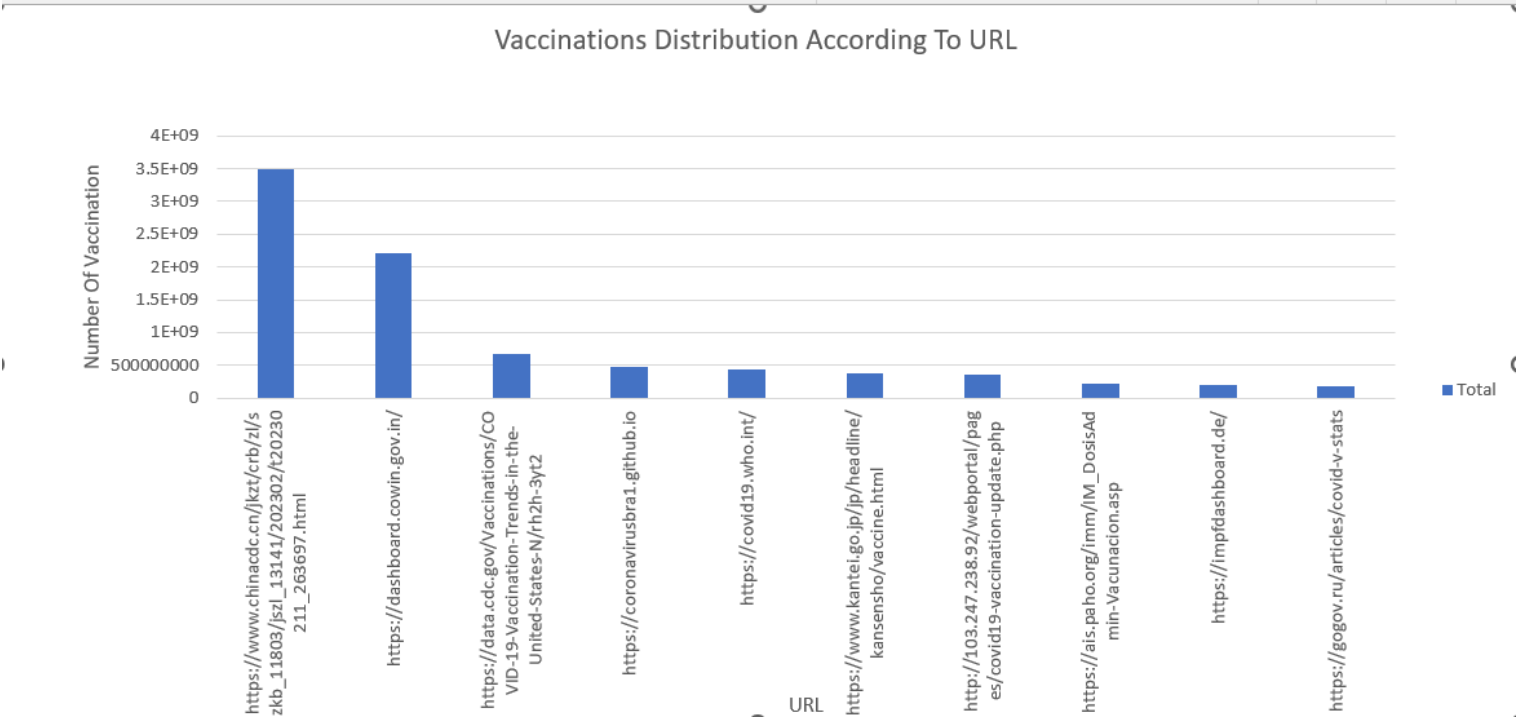## Query: -

SELECT L.Source_Website AS [Source Name (URL)],
max(V.Total_Vaccinations) AS [Largest total Administered Vaccines]
FROM Location L
JOIN
Vaccination V ON L.Country_Name = V.Country_Name
GROUP BY L.SOurce_Website
ORDER BY V.Total_Vaccinations DESC;

Query Result: -

Total rows loaded: 82

Source Name (URL)	Largest total Administered Vaccines
https://www.chinacdc.cn/jkzt/crb/zl/szkb_11803/jszl_13141/202302/...	3491077000
https://dashboard.cowin.gov.in/	2206684650
https://data.cdc.gov/Vaccinations/COVID-19-Vaccination-Trends-in-the-United-States-N...	676728782
https://coronavirusbra1.github.io	486436436
https://covid19.who.int/	444303130
https://www.kantei.go.jp/jp/headline/kansensho/vaccine.html	383747738
http://103.247.238.92/webportal/pages/covid19-vaccination-update.php	358557566
https://ais.paho.org/imm/IM_DosisAdmin-Vacunacion.asp	223158993
https://impfdashboard.de/	192221468
https://gogov.ru/articles/covid-v-stats	186692479

Data Visualization (Excel): -

Vaccinations Distribution According To URL

Task D.5 :-

Query: -

SELECT strftime('%Y-%m', Vac.Date) AS Date_,
MAX(CASE WHEN Vac.Country_Name = 'Australia' THEN Vac.People_Fully_Vaccinated END) AS Australia,
MAX(CASE WHEN Vac.Country_Name = 'England' THEN Vac.People_Fully_Vaccinated END) AS England,
MAX(CASE WHEN Vac.Country_Name = 'New Zealand' THEN Vac.People_Fully_Vaccinated END) AS New_Zealand,
MAX(CASE WHEN Vac.Country_Name = 'United States' THEN Vac.People_Fully_Vaccinated END) AS United_States
FROM Vaccination Vac
JOIN Vaccine Vcc ON Vac.Country_Name = Vcc.Country_Name AND Vac.Date = Vcc.Date
WHERE strftime('%Y', Vac.Date) = '2022'
GROUP BY Date_
ORDER BY Date_

Query Result: -

Total rows loaded: 12

	Date_	Australia	England	New_Zealand	United_States
1	2022-01	20211402	40630005	3926219	215215443
2	2022-02	20483240	41146925	3963541	218330536
3	2022-03	21240452	41533968	4056323	219898973
4	2022-04	21527099	41808368	4093200	221433810
5	2022-05	21614599	42026346	4103068	222623670
6	2022-06	21647523	42170260	4113618	223512235
7	2022-07	NULL	42463117	4126090	224439379
8	2022-08	NULL	42634817	4130291	225287976
9	2022-09	NULL	42709856	4132703	226506045
10	2022-10	NULL	42800762	4134917	227924209

Data Visualization (Excel): -