

DBC2022S1 Assignment 3

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TASK D.1

a)

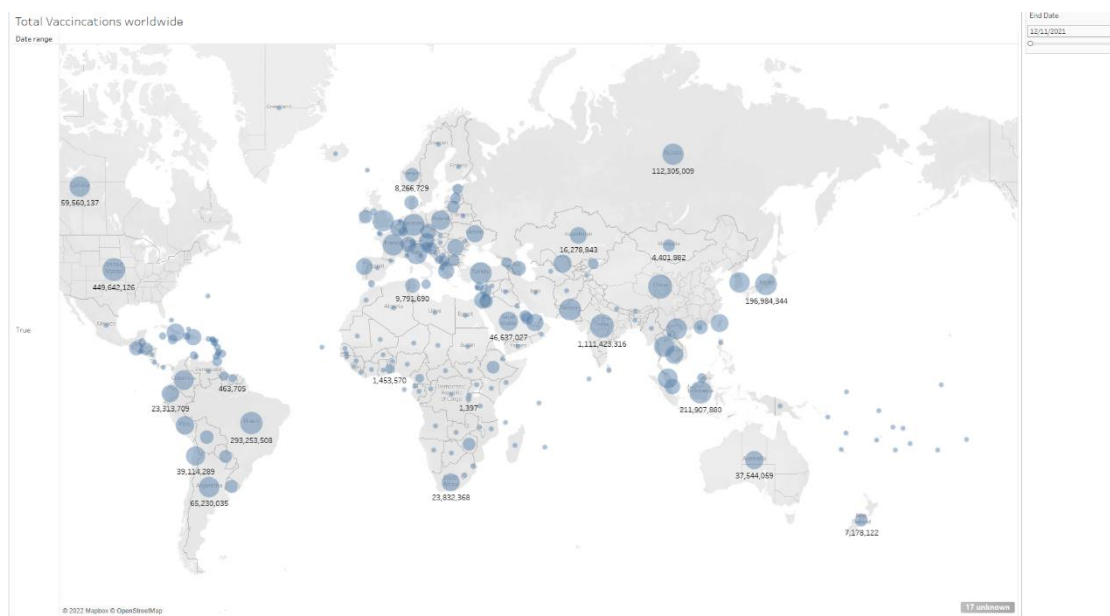
```
SELECT a.*,b.OD2,b.VOD2,b.VOD2 - a.VOD1 as 'Difference of totals (VOD1-VOD2)'
FROM((
SELECT date as OD1,locations as 'Country Name',total_vaccinations as VOD1 FROM
(Vaccinations_Global t1 LEFT OUTER JOIN Locations t2 ON
t1.Iso_code=t2.Iso_code) WHERE t1.date = '12/11/2021') a
LEFT OUTER JOIN (
SELECT date as OD2 ,locations,total_vaccinations as VOD2 FROM
(Vaccinations_Global t1 LEFT OUTER JOIN Locations t2 ON
t1.Iso_code=t2.Iso_code) WHERE t1.date = '8/05/2022') b ON a.'Country Name' =
b.locations)
```

b)

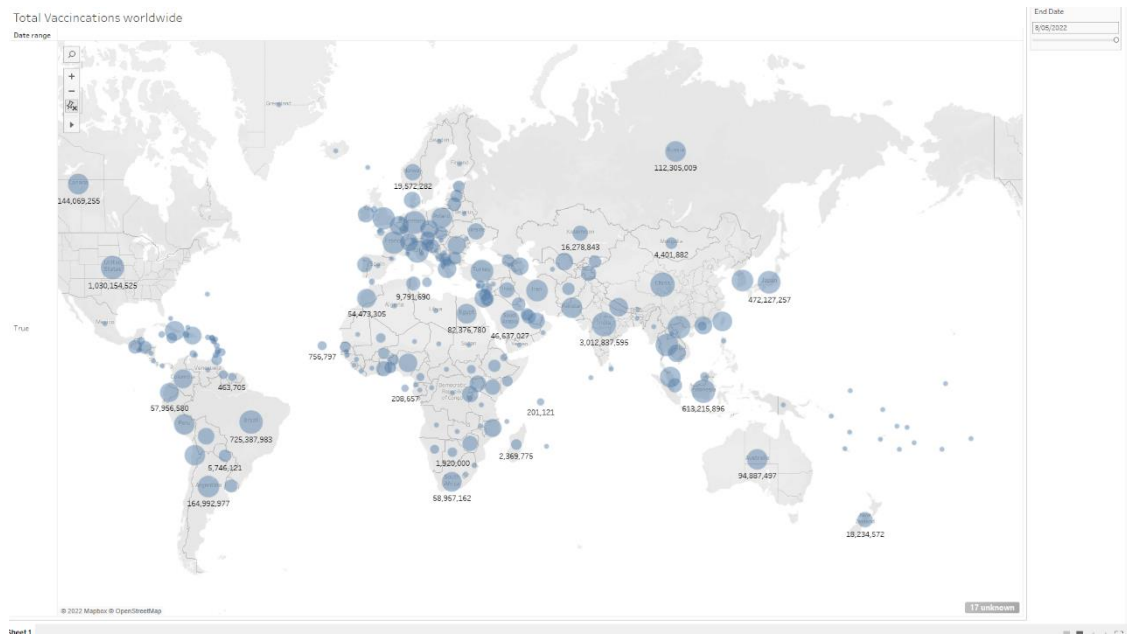
Total rows loaded: 230						
	OD1	Country Name	VOD1	OD2	VOD2	Difference of totals (VOD1-VOD2)
1	12/11/2021	Aruba	160561	8/05/2022	NULL	NULL
2	12/11/2021	Afghanistan	NULL	8/05/2022	6023425	NULL
3	12/11/2021	Angola	NULL	8/05/2022	NULL	NULL
4	12/11/2021	Anguilla	18782	8/05/2022	NULL	NULL
5	12/11/2021	Albania	NULL	8/05/2022	NULL	NULL
6	12/11/2021	Andorra	NULL	NULL	NULL	NULL
7	12/11/2021	United Arab Emirates	21477305	8/05/2022	NULL	NULL
8	12/11/2021	Argentina	65230035	8/05/2022	99762942	34532907
9	12/11/2021	Armenia	NULL	NULL	NULL	NULL
10	12/11/2021	Antigua and Barbuda	NULL	NULL	NULL	NULL

c) Interactive visualisation:










i) Date set to 12/11/2021

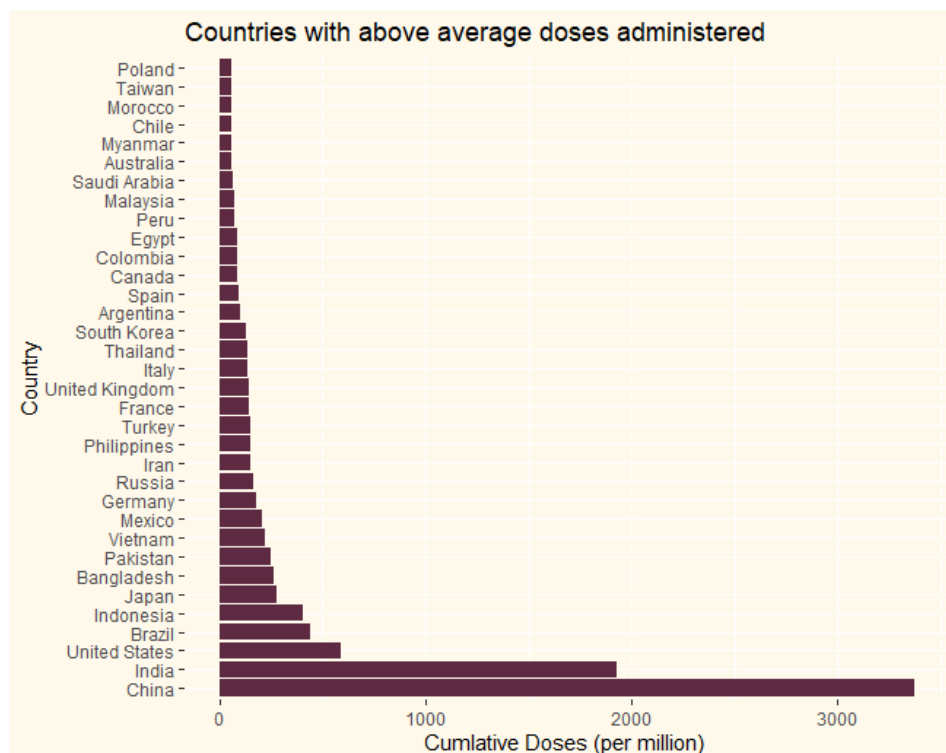


ii) Date set to 8/05/2022



```
SELECT Locations as "Country", "Cumulative Doses" FROM(
SELECT Locations ,MAX(total_vaccinations) as "Cumulative Doses" FROM
(Vaccinations_Global t1 LEFT OUTER JOIN Locations t2 ON t1.Iso_code =
t2.Iso_code)
WHERE t1.Iso_code NOT LIKE "%OWID_%"
GROUP BY t2.Iso_code)
WHERE "Cumulative Doses" > (
SELECT AVG(max_vax) FROM (
SELECT Iso_code, MAX(total_vaccinations) as max_vax FROM Vaccinations_Global
WHERE Iso_code NOT LIKE "%OWID_%") GROUP BY Iso_code ))
```

									Total rows loaded: 34
	Country	Cumulative Doses							
1	Argentina	101922843							
2	Australia	57574701							
3	Bangladesh	260633799							
4	Brazil	438839760							
5	Canada	85210622							
6	Chile	55947094							
7	China	3374726000							
8	Colombia	83585958							
9	Germany	179927467							
10	Egypt	82907695							



TASK D.3

a)

```
SELECT Locations , Vaccines_used FROM Vaccines_used t1 LEFT OUTER JOIN
Locations t2 ON t1.Iso_code = t2.Iso_code
WHERE t1.Iso_code IN(
SELECT Iso_code FROM Vaccines_used GROUP BY Iso_code
ORDER BY count(Vaccines_used.Vaccines_used) DESC LIMIT 10)
```

b)

Total rows loaded: 100		
	Locations	Vaccines_used
1	Afghanistan	Covaxin
2	Afghanistan	Johnson&Johnson
3	Afghanistan	Moderna
4	Afghanistan	Oxford/AstraZeneca
5	Afghanistan	Pfizer/BioNTech
6	Afghanistan	Sinopharm/Beijing
7	Afghanistan	Sinovac
8	Afghanistan	Sputnik Light
9	Afghanistan	Sputnik V
10	Afghanistan	CanSino

c)

Top 10 Countries by No. of vaccines used



TASK D.4

a)

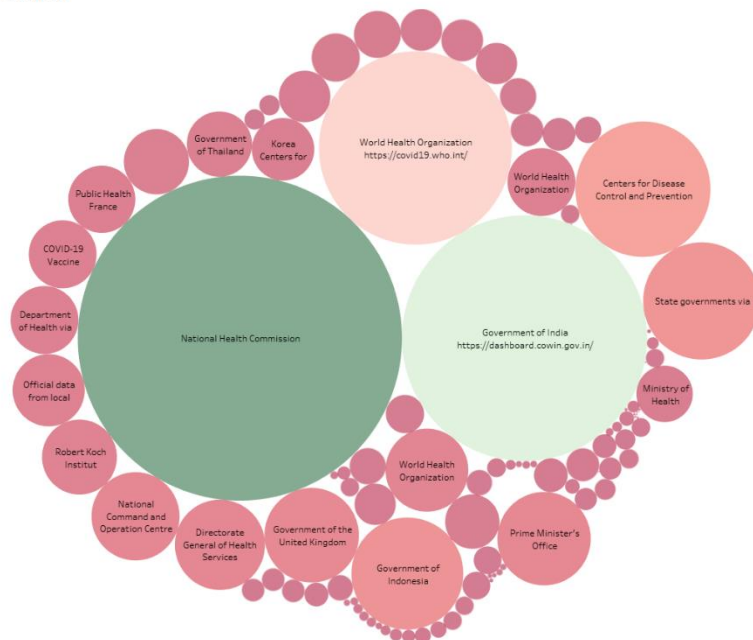
```
SELECT source_name as 'Source Name',b as 'Total Administered Vaccines',
source_website as 'Source URL' FROM (
(SELECT source_website ,SUM(a) as b FROM(
SELECT Iso_code, source_website , MAX(total_vaccinations) as a FROM(
SELECT * FROM (locations t1 LEFT OUTER JOIN Vaccinations_Global t2 ON
t1.Iso_code == t2.Iso_code) ) GROUP BY Iso_code)WHERE source_website IS NOT
NULL GROUP BY source_website ) t1 LEFT OUTER JOIN
datasources t2 ON t1.source_website = t2.source_website)
```

b)

Total rows loaded: 104			
	Source Name	Total Administered Vaccines	Source URL
1	Directorate General of Health Services	260633799	http://103.247.238.92/webportal/pages/covid19-vaccination-update.php
2	National Health Commission	3374726000	http://www.nhc.gov.cn/jkj/s7915/202206/92cec42918954569847b1cf73cf26094.shtml
3	World Health Organization	46835756	https://ais.paho.org/imm/IM_DosisAdmin-Vacunacion.asp
4	Ministry of Health	617389	https://asi.saglik.gov.ct.tr/
5	Government of Curacao	252793	https://bakuna.cw/
6	Government of the Faeroe Islands	103894	https://corona.fo/api
7	Government of Greenland	79745	https://corona.nun.gl
8	Ministry of Health	4397280	https://coronavirus.bg/bg/statistika
9	Government of the United Kingdom	285935302	https://coronavirus.data.gov.uk/details/vaccinations
10	State governments via coronavirusbra1.github.io	438839760	https://coronavirusbra1.github.io

c) Interactive visualisation:

Vaccines administered by source



TASK D.5

a)

```
SELECT a.*,b.'United States',c.'England',d.'China' FROM (((
(SELECT DATE(date) as date,people_fully_vaccinated as 'Australia' FROM
(Vaccinations_global t1 LEFT OUTER JOIN locations t2 ON t1.Iso_code=t2.Iso_code) WHERE
STRFTIME('%Y',DATE(date)) = '2022' AND locations = 'Australia') a
LEFT OUTER JOIN
(SELECT DATE(date) as date,people_fully_vaccinated as 'United States' FROM
(Vaccinations_global t1 LEFT OUTER JOIN locations t2 ON t1.Iso_code=t2.Iso_code) WHERE
STRFTIME('%Y',DATE(date)) = '2022' AND locations = 'United States') b ON a.date=b.date)
LEFT OUTER JOIN
(SELECT DATE(date) as date,people_fully_vaccinated as 'England' FROM (Vaccinations_global t1
LEFT OUTER JOIN locations t2 ON t1.Iso_code=t2.Iso_code) WHERE
STRFTIME('%Y',DATE(date)) = '2022' AND locations = 'England') c ON c.date=a.date)
LEFT OUTER JOIN
(SELECT DATE(date) as date,people_fully_vaccinated as 'China' FROM (Vaccinations_global t1
LEFT OUTER JOIN locations t2 ON t1.Iso_code=t2.Iso_code) WHERE STRFTIME('%Y',DATE(date))
= '2022' AND locations = 'China' ) d ON d.date=c.date )
```

b)

	date	Australia	United States	England	China
1	2022-01-01	NULL	209429242	39820104	NULL
2	2022-01-02	19778026	209519690	39835708	NULL
3	2022-01-03	19782523	209715964	39857874	NULL
4	2022-01-04	19806589	209929566	39890930	NULL
5	2022-01-05	19832376	210141698	39920709	NULL
6	2022-01-06	19857649	210353485	39947508	1213000000
7	2022-01-07	19882365	210597866	39975308	1215878000
8	2022-01-08	19896355	210772526	40016659	NULL
9	2022-01-09	19904821	210847346	40042198	NULL
10	2022-01-10	19928352	211037152	40063640	NULL

c)

