

DATABASE DESIGN PROJECT

QUERIES.PDF

Due: 29th October

Task D1:

SELECT c_final.Name AS "Country Name", total.Value as "TotalVaccinations (Administered to Date)", c_final.DailyVaccinations AS "Daily Vaccinations", c_final.Date AS "Date"

FROM CountryStats total

INNER JOIN (

SELECT c.Name, c.CountryCode, agg.Date, agg.DailyVaccinations, agg.Average

FROM Country c

INNER JOIN (

SELECT cs.CountryCode, cs.Date, cs.Value as "DailyVaccinations", cd.Average

FROM CountryStats cs

INNER JOIN (SELECT AVG(Value) as "Average", Date

FROM CountryStats

WHERE Statistic = "daily_vaccinations"

GROUP BY Date) cd on cs.Date = cd.Date

WHERE cs. Value > cd. Average AND cs. Statistic = "daily_vaccinations") agg

ON c.CountryCode = agg.CountryCode) c_final

ON total.CountryCode = c_final.CountryCode

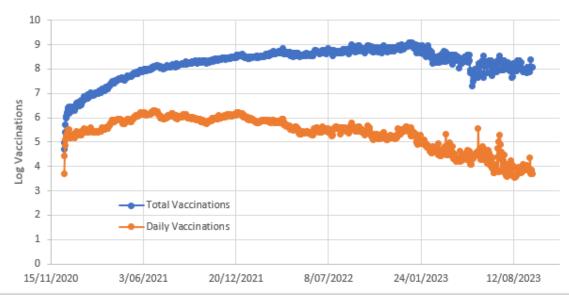
AND total.Date = c final.Date

WHERE Statistic = "total_vaccinations"

ORDER BY c_final.Date; ___

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	Country Name	TotalVaccinations (Administered to Date)	Daily Vaccinations	Date	
1	Norway	5	1	2020-12-08	
2	Norway	6	1	2020-12-09	
3	Norway	7	1	2020-12-10	
4	Norway	11	1	2020-12-11	
5	Norway	12	1	2020-12-12	
6	United States	50468	4848	2020-12-14	
7	United States	98353	26366	2020-12-15	
8	United States	258504	70961	2020-12-16	
9	United States	533742	122030	2020-12-17	
10	United States	954790	181834	2020-12-18	

Average Total Vaccinations for Countrys With Above Average Daily Vaccinations



Task D2:

WITH Totals AS (

SELECT MAX(value) AS "TotalNo"

FROM CountryStats

WHERE statistic = "total_vaccinations"

GROUP BY CountryCode),

AverageTotal AS(

SELECT AVG(TotalNo)

FROM Totals)

SELECT c.Name AS "Country", Max(cs.Value) as "Cumulative Doses"

FROM CountryStats cs

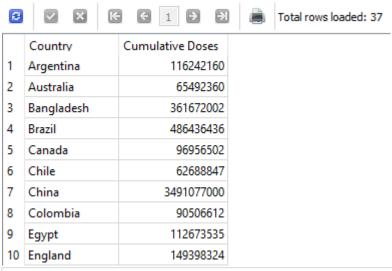
INNER JOIN Country c

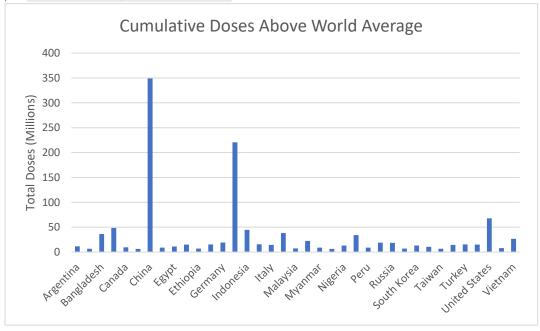
ON cs.CountryCode = c.CountryCode

WHERE cs.Statistic = "total_vaccinations"

GROUP BY c.Name

HAVING Max(cs.Value) > (SELECT * FROM AverageTotal);

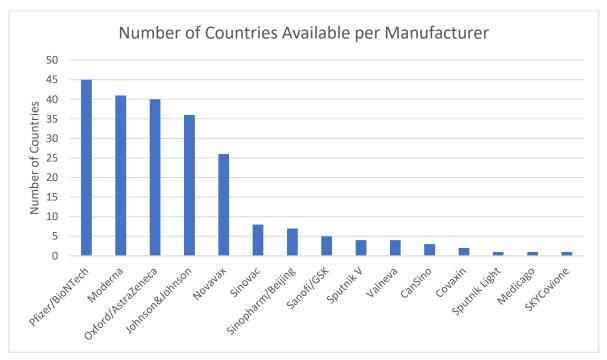




Task D3:

SELECT c.Name AS "Country", vax.ManufacturerName AS "Vaccine Type" FROM Country c INNER JOIN VaccinesByManufacturer vax ON c.CountryCode = vax.CountryCode GROUP BY c.Name, vax.ManufacturerName;

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1	Country Argentina	Vaccine Type CanSino
2	Argentina	Moderna
3	Argentina	Oxford/AstraZeneca
4	Argentina	Pfizer/BioNTech
5	Argentina	Sinopharm/Beijing
6	Argentina	Sputnik Light
7	Argentina	Sputnik V
8	Australia	Johnson&Johnson
9	Australia	Moderna
10	Australia	Novavax



Task D4:

SELECT c.Name AS "Country", cd.SourceURL AS "Source Name (URL)", cs.value AS "Biggest total Administered Vaccines" FROM

(Country c INNER JOIN CountryDataSource cd

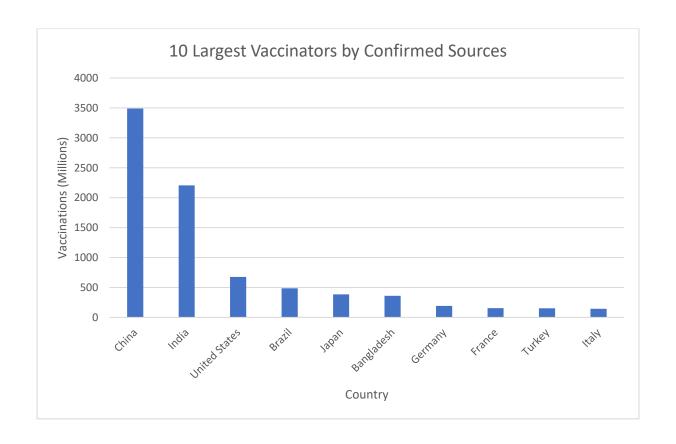
ON c.CountryCode = cd.CountryCode) INNER JOIN CountryStats cs ON cd.CountryCode = cs.CountryCode

AND cd.LatestDate = cs.Date

WHERE cs.Statistic = "total_vaccinations"

GROUP BY cd.SourceURL ORDER BY cd.SourceURL;

Country	Source Name (URL)	Biggest total Administered Vaccines	
Bangladesh	http://103.247.238.92/webportal/pages/covid19-vaccination-update.php	36167200	
Bermuda	https://ais.paho.org/imm/IM_DosisAdmin-Vacunacion.asp	13204	
Faeroe Islands	https://corona.fo/api	10389-	
Greenland	https://corona.nun.gl/en/	7973	
Bulgaria	https://coronavirus.bg/bg/statistika	461387	
Wales	https://coronavirus.data.gov.uk/details/vaccinations	893248	
7 Brazil	https://coronavirusbra1.github.io	486436436	
Slovenia	https://covid-19.sledilnik.org/sl/stats	2996643	
El Salvador	https://covid19.gob.sv/	1128917	
10 Guernsey	https://covid19.gov.gg/guidance/vaccine/stats	17852	



Task D5:

```
WITH DateRange AS (
SELECT DISTINCT Date
FROM CountryStats
WHERE Julian Day (Date) \% 7 = 0
AND JulianDay(Date) BETWEEN JulianDay('2021-01-01') AND JulianDay('2023-01-01')
Country Vaccinations AS (
SELECT CountryCode, Date, Value
FROM CountryStats
WHERE Statistic = 'people_fully_vaccinated'
AND Date IN DateRange
SELECT d.Date AS "Week",
MIN(CASE WHEN c.CountryCode = 'AUS' THEN c.Value END) AS Australia,
MIN(CASE WHEN c.CountryCode = 'FRA' THEN c.Value END) AS France,
MIN(CASE WHEN c.CountryCode = 'DEU' THEN c.Value END) AS Germany,
MIN(CASE WHEN c.CountryCode = 'OWID_ENG' THEN c.Value END) AS England
FROM DateRange d
INNER JOIN Country Vaccinations c ON d.Date = c.Date
GROUP BY d.Date
ORDER BY d.Date;
```

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	Week	Australia	France	Germany	England	
1	2021-01-05	0	19	71169	407294	
2	2021-01-12	0	190	71169	407294	
3	2021-01-19	0	1136	71169	434125	
4	2021-01-26	0	7185	354681	444011	
5	2021-02-02	0	116624	731522	463889	
6	2021-02-09	0	405244	1185858	475228	
7	2021-02-16	0	874039	1592825	495704	
8	2021-02-23	3	1390192	1942327	528360	
9	2021-03-02	12	1782900	2295428	640219	
10	2021-03-09	27	2110744	2686564	868272	

