

A. SQL script file

You are tasked to develop some SQL scripts to query the data, as follows:

1. Display a list of total vaccinations per day in Singapore.
[source table: country_vaccinations]

	date	total_vaccinations
▶	1/11/2021	3400.0000
	1/12/2021	6200.0000
	1/13/2021	0.0000
	1/14/2021	0.0000
	1/15/2021	0.0000
	1/16/2021	0.0000

[169 rows returned]

2. Display the sum of daily vaccinations among ASEAN countries.
[source table: country_vaccinations]

vaccine	total_administrated
Pfizer/BioNTech	488303302
Moderna	171755596
Oxford/AstraZeneca	55469456
Sinovac	20366592
Johnson&Johnson	20365108
Sinopharm/Beijing	2056651
Sputnik V	1813128
CanSino	391012

3. Identify the maximum daily vaccinations per million on each country. Sort the list based on daily vaccinations per million in a descending order.
[source table: country_vaccinations]

	country	max(daily_vaccinations_per_million)
►	Bhutan	118759.0000
	Falkland Islands	54264.0000
	Cook Islands	46231.0000
	Mongolia	38271.0000
	Gibraltar	31700.0000
	Wallis and Futuna	30500.0000
	Saint Helena	27178.0000

[217 rows returned]

4. Which is the most administrated vaccine? Display a list of total administration (i.e., sum of total vaccinations) per vaccine.
[source table: country_vaccinations_by_manufacturer]

	vaccine	total_administrated
►	Pfizer/BioNTech	26727111273
	Moderna	13770017464
	Oxford/AstraZeneca	2200684190
	Sinovac	1669181468
	Johnson&Johnson	1025822977
	Sinopharm/Beijing	22100585
	Sputnik V	18606953
	CanSino	6048649

5. Italy has commenced administrating various vaccines to its populations as a vaccine becomes available. Identify the first dates of each vaccine being administrated, then compute the difference in days between the earliest date and the 4th date.

[source table: country_vaccinations_by_manufacturer]

	vaccine	date
►	Pfizer/BioNTech	2020-12-27
	Moderna	2021-01-06
	Oxford/AstraZeneca	2021-01-15
	Johnson&Johnson	2021-03-27

[Hint: based on the result presented above, use LIMIT and DATEDIFF. The expected output is presented below]

	Difference_In_Days
►	90

6. What is the country with the most types of administrated vaccine?

[source table: country_vaccinations_by_manufacturer]

location	vaccine
Hungary	Pfizer/BioNTech
Hungary	Moderna
Hungary	Oxford/AstraZeneca
Hungary	Sputnik V
Hungary	Sinopharm/Beijing
Hungary	Johnson&Johnson

7. What are the countries that have fully vaccinated more than 60% of its people? For each country, display the vaccines administrated.

[source table: country_vaccinations]

country	vaccines	vaccinated_percentage
Gibraltar	Pfizer/BioNTech	115.3200
Malta	Johnson&Johnson; Moderna; Oxford/AstraZen...	73.8100
Seychelles	Oxford/AstraZeneca; Sinopharm/Beijing	68.4400
Cayman Islands	Oxford/AstraZeneca; Pfizer/BioNTech	68.1600
San Marino	Pfizer/BioNTech; Sputnik V	65.8500
Bermuda	Pfizer/BioNTech	62.6800

8. Monthly vaccination insight – display the monthly total vaccination amount of each vaccine per month in the United States.

[source table: country_vaccinations_by_manufacturer]

month	vaccine	monthly_total_vaccin
Jan	Moderna	14246089
Jan	Pfizer/BioNTech	16775916
Feb	Moderna	36694414
Feb	Pfizer/BioNTech	38426567
Mar	Moderna	69930956
Mar	Pfizer/BioNTech	76891912
Mar	Johnson&Johnson	3307113
Apr	Johnson&Johnson	8231139
Apr	Moderna	104613893
Apr	Pfizer/BioNTech	127133399
May	Johnson&Johnson	10776617
May	Moderna	124520914
May	Pfizer/BioNTech	159412031
Jun	Johnson&Johnson	12405746
Jun	Moderna	133514868
Jun	Pfizer/BioNTech	180344997

9. Days to 50 percent. Compute the number of days (i.e., using the first available date on records of a country) that each country takes to go above the 50% threshold of vaccination administration (i.e., total_vaccinations_per_hundred > 50)

[source table: country_vaccinations]

country	Days_to_over_50%
Andorra	134
Anguilla	103
Antigua and Barbuda	105
Aruba	19
Austria	141
Bahrain	96
Barbados	112
Belgium	140
Bermuda	72
Bhutan	5
British Virgin Islands	7
Canada	138
Cayman Islands	75
Chile	85
China	154
Cook Islands	14
Croatia	162
Cuba	46
Curacao	26

[85 rows returned]

10. Compute the global total of vaccinations per vaccine.
[source table: country_vaccinations_by_manufacturer]

vaccine	global_total
Pfizer/BioNTech	488303302
Moderna	171755596
Oxford/AstraZeneca	55469456
Sinovac	20366592
Johnson&Johnson	20365108
Sinopharm/Beijing	2056651
Sputnik V	1813128
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