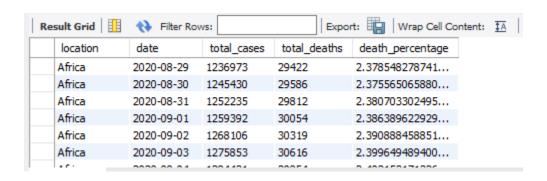
EDA using SQL

Covid dataset

1. Death percentage query:

Select

location,date,total_cases,total_deaths,(total_deaths/total_cases)*
100 as death_percentage
from coviddeaths
order by 1,2;

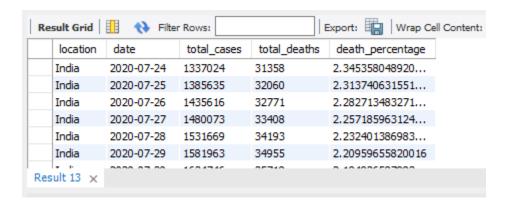


2. Death percentage in India

select

location,date,total_cases,total_deaths,(total_deaths/total_cases)*
100 as death_percentage
from coviddeaths
where location='India'

order by 1,2;



3. Percentage of people infected with covid

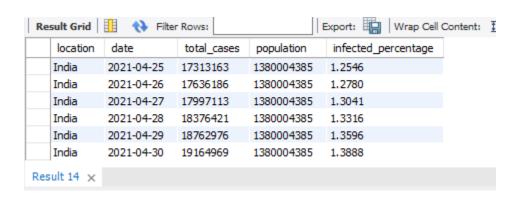
select

location,date,total_cases,population,(total_cases/population)*100 as infected_percentage

from coviddeaths

where location='India'

order by 1,2;



4. Countries with highest infection rate based on population

select location,population,max(total_cases) as highest_infected_count, max((total_cases/population))*100 as infected_percentage from coviddeaths group by location,population

order by infected percentage desc

location	population	highest_infected_count	infected_percentage
Andorra	77265	13232	17.1300
Montenegro	628062	97389	15.5100
Czechia	10708982	1630758	15.2300
San Marino	33938	5066	14.9300
Slovenia	2078932	240292	11.5600
Luxembourg	625976	67205	10.7400
Bahrain	1701583	176934	10.4000
Serbia	6804596	689557	10.1300
United States	331002647	32346971	9.7700

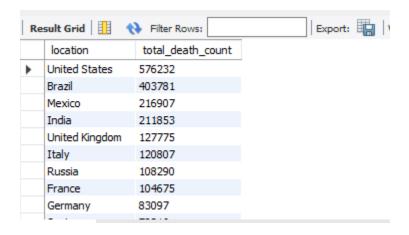
5. Countries with highest death count per population

select location,max(cast(total_deaths as signed)) as total_death_count from coviddeaths

where continent != ""

group by location

order by total_death_count desc



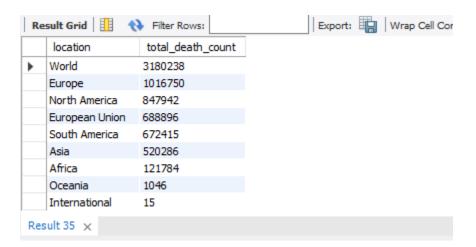
6. Continents with highest deaths per population

select location, max(cast(total_deaths as signed)) as total_death_count from coviddeaths

where continent = ""

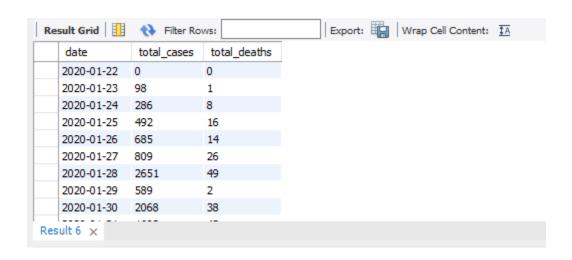
group by location

order by total death count desc;



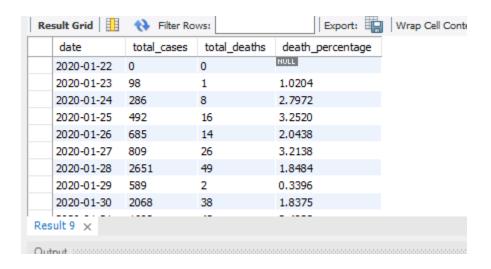
7. Total number of cases and deaths globally per day

```
select date,sum(new_cases) as total_cases,sum(new_deaths) as total_deaths from coviddeaths where continent!="" group by date order by date;
```



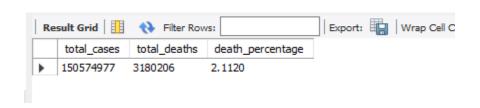
8. Percentage of deaths globally

```
select date,sum(new_cases) as total_cases,sum(new_deaths) as total_deaths, (sum(cast(new_deaths as signed))/sum(new_cases))*100 as death_percentage from coviddeaths where continent!="" group by date order by date;
```



9. Total number of cases, deaths and death percentage globally

select sum(new_cases) as total_cases,sum(new_deaths) as total_deaths, (sum(cast(new_deaths as signed))/sum(new_cases))*100 as death_percentage from coviddeaths where continent!="" order by date;



10. Rolling count of new vaccination

select

dea.continent,dea.location,dea.date,dea.population,vac.new_vaccinations,sum(vac.new_vaccinations) over (partition by dea.location order by dea.location,dea.date) as rolling_vaccination_count

from coviddeaths dea join covidvaccinations vac on dea.date = vac.date and dea.location = vac.location where dea.continent !="" order by 2,3;

continent	location	date	population	new_vaccinations	rolling_vaccination_count
South A	Bolivia	2021-01-28	11673029		0
South A	Bolivia	2021-01-29	11673029	12	12
South A	Bolivia	2021-01-30	11673029	27	39
South A	Bolivia	2021-01-31	11673029	28	67
South A	Bolivia	2021-02-01	11673029	503	570
South A	Bolivia	2021-02-02	11673029	1023	1593
South A	Bolivia	2021-02-03	11673029	1967	3560
South A	Bolivia	2021-02-04	11673029		3560
South A	Bolivia	2021-02-05	11673029		3560

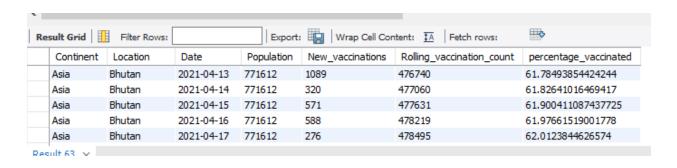
11. CTE for percentage of vaccinated people based on population

```
with pop_vs_vac(Continent,Location,Date,Population,New_vaccination s,Rolling_vaccination_count) as (
```

select

dea.continent,dea.location,dea.date,dea.population,vac.new_vaccinations,sum(vac.new_vaccinations) over (partition by dea.location order by dea.location,dea.date) as rolling_vaccination_count from coviddeaths dea join covidvaccinations vac on dea.date = vac.date and dea.location = vac.location where dea.continent !=""

select *,(Rolling_vaccination_count/population)*100 as percentage_vaccinated from pop_vs_vac;



12. Temp table for percentage of vaccinated people based on population

drop table if exists percent_pop_vac_temp_table; create table percent_pop_vac_temp_table(
Continent char(255),
Location char(255),
Date datetime,

Population numeric,
New_vaccinations numeric null,
Rolling_vaccination_count numeric
);

Insert into percent_pop_vac_temp_table select dea.continent,dea.location,dea.date,dea.population,vac.new_vacc inations,sum(vac.new_vaccinations) over (partition by dea.location order by dea.location,dea.date) as rolling_vaccination_count from coviddeaths dea join covidvaccinations vac on dea.date = vac.date and dea.location = vac.location where dea.continent !="";

select *,(Rolling_vaccination_count/population)*100 as percentage vaccinated from percent pop vac temp table;

esult Grid	Filter Rows:		Export:	Wrap Cell Con	tent: 🏗 Fetch rows:	₩
Continent	Location	Date	Population	New_vaccinations	Rolling_vaccination_count	percentage_vaccinated
Europe	Italy	2021-04-20	60461828	330986	16015285	26.488258012973077
Europe	Italy	2021-04-21	60461828	370312	16385597	27.100730398028983
Europe	Italy	2021-04-22	60461828	394083	16779680	27.752518498117524
Europe	Italy	2021-04-23	60461828	399235	17178915	28.412827676993157
Europe	Italy	2021-04-24	60461828	381197	17560112	29.043303156497352
Europe	Italy	2021-04-25	60461828	265331	17825443	29.482143675841225
Europe	Italy	2021-04-26	60461828	340935	18166378	30.046028380088014
Europe	Italy	2021-04-27	60461828	366541	18532919	30.652263772110892
-	*1 I	2024 24 22	C0.4C4000	404074	10000000	04.04560057766600

13. Creating view

create view percentage_infected_view as select location,population,max(total_cases) as highest_infected_count, max((total_cases/population))*100 as infected_percentage from coviddeaths group by location order by infected_percentage desc;