--% of the world population affected by COvid

Select total\_cases\_worldwide, world\_population, (total\_cases\_worldwide/world\_population)\*100 as percent\_population\_infected\_worldwide

FROM(

Select SUM(new\_cases) as total\_cases\_worldwide, Sum(Distinct(population)) as world\_population

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NULL

)

-- Total cases per country

Select Distinct(location), Max(total\_cases) as total\_cases\_percountry

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NULL and location IN ('United States', 'India','China', 'Pakistan', 'Brazil', 'United Kingdom')

Group by location

order by 2 DESC

--Trend of cases by date in USA, China, India, Pakistan

Select location, date, new\_cases

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NULL and location IN ('United States')

--% of the world population died by COvid

Select total\_deaths\_worldwide, world\_population, (total\_deaths\_worldwide/world\_population)\*100 as percent\_population\_died\_worldwide

From (

Select SUM(new\_deaths) as total\_deaths\_worldwide, Sum(Distinct(population)) as world\_population

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NULL

)

-- mortality rate in the world

Select total\_deaths\_worldwide, total\_cases\_worldwide, (total\_deaths\_worldwide/total\_cases\_worldwide)\*100 as mortality\_rate

FROM(

Select SUM(new\_deaths) as total\_deaths\_worldwide, SUM(new\_cases) as total\_cases\_worldwide

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NULL

)

--mortality rate of USA, China, India, Brazil, France, Pakistan

Select location, total\_deaths\_here, total\_cases\_here, (total\_deaths\_here/total\_cases\_here)\*100 as mortality\_rate

FROM(

Select location, SUM(new\_deaths) as total\_deaths\_here, SUM(new\_cases) as total\_cases\_here

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NULL and location IN ('United States', 'China', 'India', 'Pakistan', 'Brazil', 'France')

Group by location

)

--Trend of deaths by date in USA, China, India, Pakistan

Select location, date, new\_deaths

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NULL and location IN ('United States')

-- cases per continent

Select continent, Sum(new\_cases) as cases\_per\_continent

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NULL

Group by continent

order by 2 DESC

--deaths per continent

Select continent, Sum(new\_deaths) as deaths\_per\_continent

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NULL

Group by continent

order by 2 DESC

--mortality rate per continent

Select continent, total\_deaths\_here, total\_cases\_here, (total\_deaths\_here/total\_cases\_here)\*100 as mortality\_rate

FROM(

Select continent, SUM(new\_deaths) as total\_deaths\_here, SUM(new\_cases) as total\_cases\_here

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NULL

Group by continent

)

-- Trend of cases per tests in USA, India, China, Pakistan, Brazil, France

Select location, date, new\_cases, new\_tests

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where location = 'Pakistan'

-- Average cases per tests in big countries

Select location, total\_cases\_here, total\_tests\_here, (total\_cases\_here/total\_tests\_here)\*100 as Avg\_caseper\_test

FROM

(

Select location, Sum(new\_cases) as total\_cases\_here, Sum(new\_tests) as total\_tests\_here

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where location IN ('United States', 'India', 'China', 'Pakistan', 'Brazil', 'France')

Group by location

)

-- percentage of people fully vaccinated in countries

Select location, total\_vac, population, (total\_vac/population)\*100 AS percent\_population\_vacc

From (

Select location, Max(people\_fully\_vaccinated) as total\_vac, population

From `portfolio-project-397214.covid\_data.covid\_vaccinations`

Where continent is not NULL

Group by location, population

)

order by 4 DESC

-- total cases vss total vacc by using joins

SELECT

  cd.location,

  Max(cd.total\_cases) as total\_cases\_here,

  MAX(cv.people\_fully\_vaccinated) as total\_full\_vacc

FROM

  `portfolio-project-397214.covid\_data.covid\_deaths` AS cd

FULL JOIN

  `portfolio-project-397214.covid\_data.covid\_vaccinations` AS cv

ON

  cd.location = cv.location

  Where cd.location IN ('United States', 'China', 'India', 'Pakistan', 'France')

  Group by cd.location

--trend of new vaccinations in big countries

Select location, date, new\_vaccinations

From `portfolio-project-397214.covid\_data.covid\_vaccinations`

Where continent is not NULL and location IN ('United States')

Order by date

--relation of total cases with population densities

SELECT

  location,

  MAX(total\_cases) AS total\_cases,

  MAX(population\_density) AS population\_density

FROM

  `portfolio-project-397214.covid\_data.covid\_deaths`

  WHERE continent is not NULL and location IN ('United States', 'India', 'China', 'Pakistan', 'France')

GROUP BY

  location;

--Trend of hospital patients with icu patients per country

Select location, hosp\_patients, icu\_patients

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NUll and location IN ('United States')

--life expectacncy and gdp per capita

Select location, MAx(life\_expectancy) as life\_expectancy\_here, Max(gdp\_per\_capita) as total\_gdp

From `portfolio-project-397214.covid\_data.covid\_deaths`

Where continent is not NUll and location IN ('United States', 'India', 'China', 'Pakistan', 'France')

Group by location

--share of countries such as Pak, USA, CHina, Ind, France cases compared to total cases

SELECT

  cd.location, big.total\_cases\_bigcountries, cd.total\_cases\_here,

  (cd.total\_cases\_here / big.total\_cases\_bigcountries) \* 100 AS shareof\_casesper\_country

FROM (

  SELECT

    SUM(total\_cases\_here) AS total\_cases\_bigcountries

  FROM (

    SELECT

      location,

      MAX(total\_cases) AS total\_cases\_here

    FROM

      `portfolio-project-397214.covid\_data.covid\_deaths`

    WHERE

      continent IS NOT NULL

      AND location IN ('United States', 'India', 'China', 'France', 'Pakistan')

    GROUP BY

      location

  )

) AS big

JOIN (

  SELECT

    location,

    MAX(total\_cases) AS total\_cases\_here

  FROM

    `portfolio-project-397214.covid\_data.covid\_deaths`

  WHERE

    continent IS NOT NULL

    AND location IN ('United States', 'India', 'China', 'France', 'Pakistan')

  GROUP BY

    location

) AS cd

ON

  1=1;