1) Select data that we are going to be using.

```
SELECT location, date, total_cases, new_cases, total_deaths, population
FROM `coursera-projecct-1.portfolio_covid.covid_deaths`
ORDER BY 1,2
```

2) Looking at total cases. vs total deaths. Shows likelhood of dying if you get covid in USA.

```
SELECT location, date, total_cases, total_deaths, (total_deaths/total_cases)*100 AS
Death_Percentage
FROM `coursera-projecct-1.portfolio_covid.covid_deaths`
WHERE location = 'United States'
ORDER BY 1,2
```

3) Looking at total cases. vs population. Shows what percentage of population got covid.

```
SELECT location, date, total_cases, population, ROUND((total_cases/population)*100,8)
AS Percetage_cases
FROM `coursera-projecct-1.portfolio_covid.covid_deaths`
WHERE location = 'United States'
ORDER BY 1,2
```

4) Looking at countries with highest infection rate. Shows what countries have the highest infection rate.

```
SELECT location, MAX(total_cases) AS total_cases_as_of_date, population,
MAX(ROUND((total_cases/population)*100,2)) AS Infection_Rate
FROM `coursera-projecct-1.portfolio_covid.covid_deaths`
WHERE location = 'United States'
GROUP BY location, population
ORDER BY Infection_Rate DESC
```

5) Shows what countries have the highest death count.

```
SELECT location, MAX(CAST(total_deaths AS int)) AS total_deaths_as_of_date
FROM `coursera-projecct-1.portfolio_covid.covid_deaths`
WHERE continent IS NOT NULL
GROUP BY location
ORDER BY  total_deaths_as_of_date DESC
```

6) Breaking things down by continent. total deaths by continent.

```
SELECT location, MAX(CAST(total_deaths AS int)) AS total_deaths_as_of_date
FROM `coursera-projecct-1.portfolio_covid.covid_deaths`
WHERE continent IS NULL
GROUP BY location
ORDER BY  total_deaths_as_of_date DESC
```

7) Global Numbers. Shows total cases, deaths and death percentage for each day for the whole world.

```
SELECT date, SUM(new_cases) AS Total_cases, SUM(new_deaths) AS Total_deaths,
ROUND((SUM(new_deaths)/SUM(new_cases))*100,3) AS Death_Percentage
FROM `coursera-projecct-1.portfolio_covid.covid_deaths`
WHERE continent is not NULL
GROUP By date
ORDER BY 1,2
```

8) Global Numbers. Shows total cases, deaths and death percentage for the whole world.

```
SELECT SUM(new_cases) AS Total_cases, SUM(new_deaths) AS Total_deaths,
ROUND((SUM(new_deaths)/SUM(new_cases))*100,3) AS Death_Percentage
FROM `coursera-projecct-1.portfolio_covid.covid_deaths`
WHERE continent is not NULL
```

9) Joining covid death and covid vaccination table.

```
SELECT *
FROM `coursera-projecct-1.portfolio_covid.covid_vaccinations` AS D JOIN `coursera-
projecct-1.portfolio_covid.covid_deaths` AS V ON
    D.location = V.location  AND D.date = V.date
```

10) Looking at total population vs vaccination. USE CTE.

```
WITH Pop_vs_Vac AS
(
SELECT D.continent, D.location, D.date, D.population, V.new_vaccinations,
SUM(V.new_vaccinations) OVER (PARTITION BY D.location ORDER BY D.location,
D.date) AS total_vaccinations
FROM `coursera-projecct-1.portfolio_covid.covid_vaccinations` AS V JOIN `coursera-
projecct-1.portfolio_covid.covid_deaths` AS D ON
     D.location = V.location  AND D.date = V.date
WHERE D.continent is not null
)
```

```
SELECT *, total_vaccinations AS rolling_population_vaccinated
FROM Pop_vs_Vac
```