

```

1  -- Select Data that we are going to be starting with
2
3  • Select Location, date, total_cases, new_cases, total_deaths, population
4  From Portfolio.CovidDeaths_2
5  Where continent is not null
6  order by 1,2;
7

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

	Location	date	total_cases	new_cases	total_deaths	population
▶	Afghanistan	1/1/2021	51526	0	2191	38928341
	Afghanistan	1/10/2021	53489	89	2277	38928341
	Afghanistan	1/11/2021	53538	49	2288	38928341
	Afghanistan	1/12/2021	53584	46	2301	38928341
	Afghanistan	1/13/2021	53584	0	2301	38928341
	Afghanistan	1/14/2021	53775	191	2314	38928341
	Afghanistan	1/15/2021	53831	56	2324	38928341
	Afghanistan	1/16/2021	53938	107	2336	38928341
	Afghanistan	1/17/2021	53984	46	2339	38928341
	Afghanistan	1/18/2021	54062	78	2343	38928341

CovidDeaths_2 14 x

Result Grid

Form Editor

Field Types

Read Only

```

9      -- Total Cases vs Total Deaths
10     -- Shows likelihood of dying if you contract covid in your country
11
12     • Select Location, date, total_cases,total_deaths, (total_deaths/total_cases)*100 as DeathPercentage
13     From Portfolio.CovidDeaths_2
14     Where location like '%India%'
15     and continent is not null
16     order by 1,2;
17

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	Location	date	total_cases	total_deaths	DeathPercentage
▶	India	1/1/2021	10286709	148994	1.448412704199176
	India	1/10/2021	10466595	151160	1.444213710380501
	India	1/11/2021	10479179	151327	1.44407305190607
	India	1/12/2021	10495147	151529	1.443800644240619
	India	1/13/2021	10512093	151727	1.4433567130732194
	India	1/14/2021	10527683	151918	1.4430335715845546
	India	1/15/2021	10542841	152093	1.4426187400530843
	India	1/16/2021	10557985	152274	1.4422638410643698
	India	1/17/2021	10571773	152419	1.441754377435081
	India	1/18/2021	10581823	152556	1.4416797559361936

Result 15

Result Grid

Form Editor

Field Types

Read Only

```

18
19
20 -- Total Cases vs Population
21 -- Shows what percentage of population infected with Covid
22
23 • Select Location, date, Population, total_cases, (total_cases/population)*100 as PercentPopulationInfected
24 From Portfolio.CovidDeaths_2
25 order by 1,2;
26

```

Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:

	Location	date	Population	total_cases	PercentPopulationInfected
▶	Afghanistan	1/1/2021	38928341	51526	0.1324
	Afghanistan	1/10/2021	38928341	53489	0.1374
	Afghanistan	1/11/2021	38928341	53538	0.1375
	Afghanistan	1/12/2021	38928341	53584	0.1376
	Afghanistan	1/13/2021	38928341	53584	0.1376
	Afghanistan	1/14/2021	38928341	53775	0.1381
	Afghanistan	1/15/2021	38928341	53831	0.1383
	Afghanistan	1/16/2021	38928341	53938	0.1386
	Afghanistan	1/17/2021	38928341	53984	0.1387
	Afghanistan	1/18/2021	38928341	54062	0.1389

Result 16

Result Grid

Form Editor

Field Types

Read Only

```

29  -- Countries with Highest Infection Rate compared to Population
30
31  •  Select Location, Population, MAX(total_cases) as HighestInfectionCount, Max((total_cases/population))*100 as PercentPopulationInfected
32  From Portfolio.CovidDeaths_2
33  Group by Location, Population
34  order by PercentPopulationInfected desc;
35
36

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	Location	Population	HighestInfectionCount	PercentPopulationInfected
▶	Andorra	77265	13232	17.1300
	Czechia	10708982	1630758	15.2300
	Luxembourg	625976	67205	10.7400
	Bahrain	1701583	176934	10.4000
	Israel	8655541	838481	9.6900
	Estonia	1326539	122019	9.2000
	Lithuania	2722291	247269	9.0800
	Belgium	11589616	990229	8.5400
	France	68147687	5677835	8.3300
	Croatia	4105268	332183	8.0900

Result 18 x

Result Grid

Form Editor

Field Types

Read Only

```

46
47 -- Showing continents with the highest death count per population
48
49 • Select continent, MAX(Total_deaths) as TotalDeathCount
50 From Portfolio.CovidDeaths_2
51 Where continent is not null
52 Group by continent
53 order by TotalDeathCount desc;
54

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	continent	TotalDeathCount
▶	Europe	9997
	Asia	9996
	Africa	9994
	North America	999
		998761
	South America	9985
	Oceania	99

```

56
57  -- GLOBAL NUMBERS
58
59  •  Select SUM(new_cases) as total_cases, SUM(new_deaths) as total_deaths, SUM(new_deaths)/SUM(New_Cases)*100 as DeathPercentage
60  From Portfolio.CovidDeaths_2
61  where continent is not null
62  order by 1,2;
63
64

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	total_cases	total_deaths	DeathPercentage
▶	156519131	3391696	2.1669529969470633

MYSQL COVID PROJECT - DA...

Limit to 1000 rows

```

67
68 -- Total Population vs Vaccinations
69 -- Shows Percentage of Population that has recieved at least one Covid Vaccine
70 • 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)
71 as RollingPeopleVaccinated
72 From Portfolio.CovidDeaths_2 dea
73 Join Portfolio.CovidVaccinations vac
74 On dea.location = vac.location
75 and dea.date = vac.date
76 where dea.continent is not null
77 order by 2,3;
78

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	continent	location	date	population	new_vaccinations	RollingPeopleVaccinated
	Asia	Azerbaijan	4/3/2021	10139175	35780	422113
	Asia	Azerbaijan	4/30/2020	10139175		422113
	Asia	Azerbaijan	4/4/2020	10139175		422113
	Asia	Azerbaijan	4/4/2021	10139175	22932	445045
	Asia	Azerbaijan	4/5/2020	10139175		445045
	Asia	Azerbaijan	4/5/2021	10139175	202	445247
	Asia	Azerbaijan	4/6/2020	10139175		445247
	Asia	Azerbaijan	4/6/2021	10139175	34344	479591
	Asia	Azerbaijan	4/7/2020	10139175		479591
	Asia	Azerbaijan	4/7/2021	10139175	43499	523090

Result 24

Read Only

Result Grid

Form Editor

Field Types

MYSQL COVID PROJECT - DA...

Limit to 1000 rows

```
-- using CTE to perform calculation in Partition By in previous query
--
with PopCovid (continent, location, date, population, new_vaccinations, rollingpeoplevaccinated)
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 rollingpeoplevaccinated
from Portfolio.CovidDeaths_2 dea
join Portfolio.CovidVaccinations vac
on dea.location = vac.location
and dea.date = vac.date
where dea.continent is not null
)
select *, (rollingpeoplevaccinated/population)*100
from PopCovid
```

Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:

	Continent	Location	Date	Population	New_Vaccinations	RollingPeopleVaccinated	(RollingPeopleVaccinated/Population)*100
	Asia	Azerbaijan	4/2/2021	10139175	32670	300418	2.962943237492202
	Asia	Azerbaijan	4/20/2020	10139175		300418	2.962943237492202
	Asia	Azerbaijan	4/20/2021	10139175	14830	315248	3.1092076031827047
	Asia	Azerbaijan	4/21/2020	10139175		315248	3.1092076031827047
	Asia	Azerbaijan	4/21/2021	10139175	14680	329928	3.2539925585661558
	Asia	Azerbaijan	4/22/2020	10139175		329928	3.2539925585661558
	Asia	Azerbaijan	4/22/2021	10139175	15077	345005	3.4026930198956027
	Asia	Azerbaijan	4/23/2020	10139175		345005	3.4026930198956027
	Asia	Azerbaijan	4/23/2021	10139175	14424	359429	3.544953115021686
	Asia	Azerbaijan	4/24/2020	10139175		359429	3.544953115021686

Result 25

Result Grid

Form Editor

Field Types

Read Only


```

99 DROP Table if exists PercentPopulationVaccinated;
100 CREATE TABLE PercentPopulationVaccinated (
101     Continent VARCHAR(255),
102     Location VARCHAR(255),
103     Date DATE,
104     Population NUMERIC,
105     New_vaccinations NUMERIC,
106     RollingPeopleVaccinated NUMERIC
107 );
108
109 /*INSERT INTO PercentPopulationVaccinated
110 SELECT dea.continent, dea.location, dea.date, dea.population, vac.new_vaccinations,

```

Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:

	Continent	Location	Date	Population	New_vaccinations	RollingPeopleVaccinated	PercentPopulationVaccinated
▶	Asia	Afghanistan	2020-02-24	38928341	0	0	0.0000
	Asia	Afghanistan	2020-02-25	38928341	0	0	0.0000
	Asia	Afghanistan	2020-02-26	38928341	0	0	0.0000
	Asia	Afghanistan	2020-02-27	38928341	0	0	0.0000
	Asia	Afghanistan	2020-02-28	38928341	0	0	0.0000
	Asia	Afghanistan	2020-02-29	38928341	0	0	0.0000
	Asia	Afghanistan	2020-03-01	38928341	0	0	0.0000
	Asia	Afghanistan	2020-03-02	38928341	0	0	0.0000
	Asia	Afghanistan	2020-03-03	38928341	0	0	0.0000
	Asia	Afghanistan	2020-03-04	38928341	0	0	0.0000

Result 26

Result Grid

Form Editor

Field Types

Read Only

```

124
125 • Create View PercentPopulationVaccinatedView as
126 Select dea.continent, dea.location, dea.date, dea.population, vac.new_vaccinations
127 , SUM(vac.new_vaccinations) OVER (Partition by dea.location Order by dea.location, dea.Date) as RollingPeopleVaccinated
128 From Portfolio.CovidDeaths_2 dea
129 Join Portfolio.CovidVaccinations vac
130 On dea.location = vac.location
131 and dea.date = vac.date
132 where dea.continent is not null;
133
134 • select * from PercentPopulationVaccinatedView;
135

```

Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:

	continent	location	date	population	new_vaccinations	RollingPeopleVaccinated
▶	Asia	Afghanistan	1/1/2021	38928341	0	
	Asia	Afghanistan	1/10/2021	38928341	0	
	Asia	Afghanistan	1/11/2021	38928341	0	
	Asia	Afghanistan	1/12/2021	38928341	0	
	Asia	Afghanistan	1/13/2021	38928341	0	
	Asia	Afghanistan	1/14/2021	38928341	0	
	Asia	Afghanistan	1/15/2021	38928341	0	
	Asia	Afghanistan	1/16/2021	38928341	0	
	Asia	Afghanistan	1/17/2021	38928341	0	
	Asia	Afghanistan	1/18/2021	38928341	0	

PercentPopulationVaccinatedView...

Result Grid

Form Editor

Field Types

Read Only