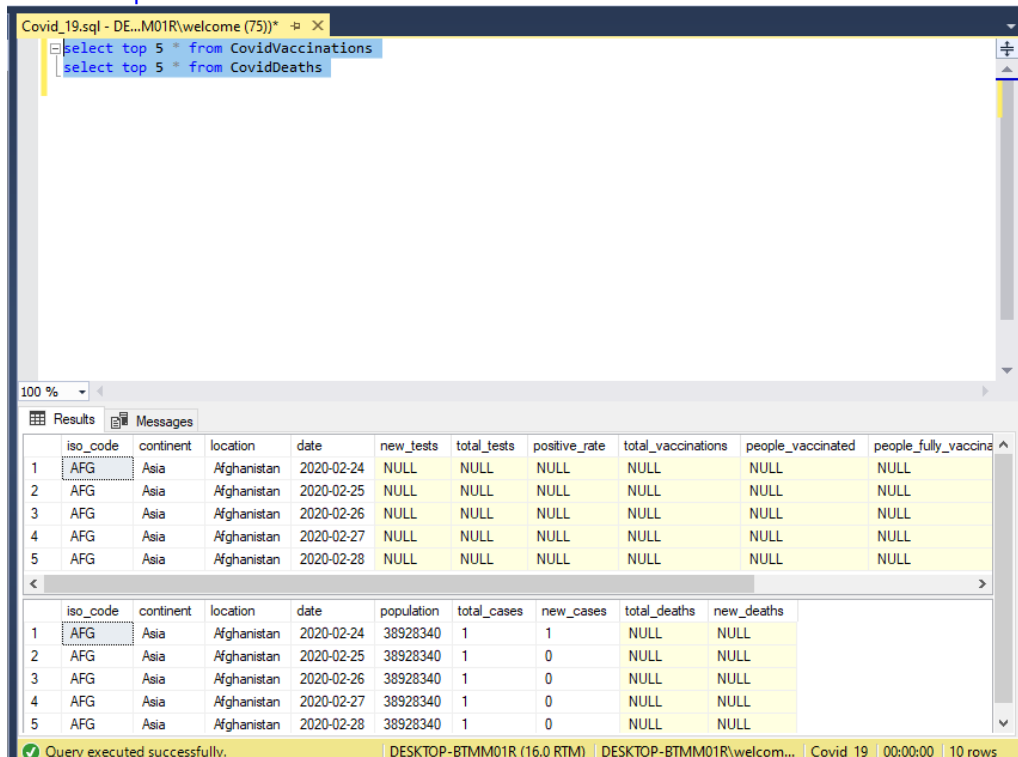


Covid-19 Dataset Analysis - Pushpam

--Select Data

Select top 5 * from CovidVaccinations

select top 5 * from CovidDeaths



Query 1: select top 5 * from CovidVaccinations

	iso_code	continent	location	date	new_tests	total_tests	positive_rate	total_vaccinations	people_vaccinated	people_fully_vaccinated
1	AFG	Asia	Afghanistan	2020-02-24	NULL	NULL	NULL	NULL	NULL	NULL
2	AFG	Asia	Afghanistan	2020-02-25	NULL	NULL	NULL	NULL	NULL	NULL
3	AFG	Asia	Afghanistan	2020-02-26	NULL	NULL	NULL	NULL	NULL	NULL
4	AFG	Asia	Afghanistan	2020-02-27	NULL	NULL	NULL	NULL	NULL	NULL
5	AFG	Asia	Afghanistan	2020-02-28	NULL	NULL	NULL	NULL	NULL	NULL

Query 2: select top 5 * from CovidDeaths

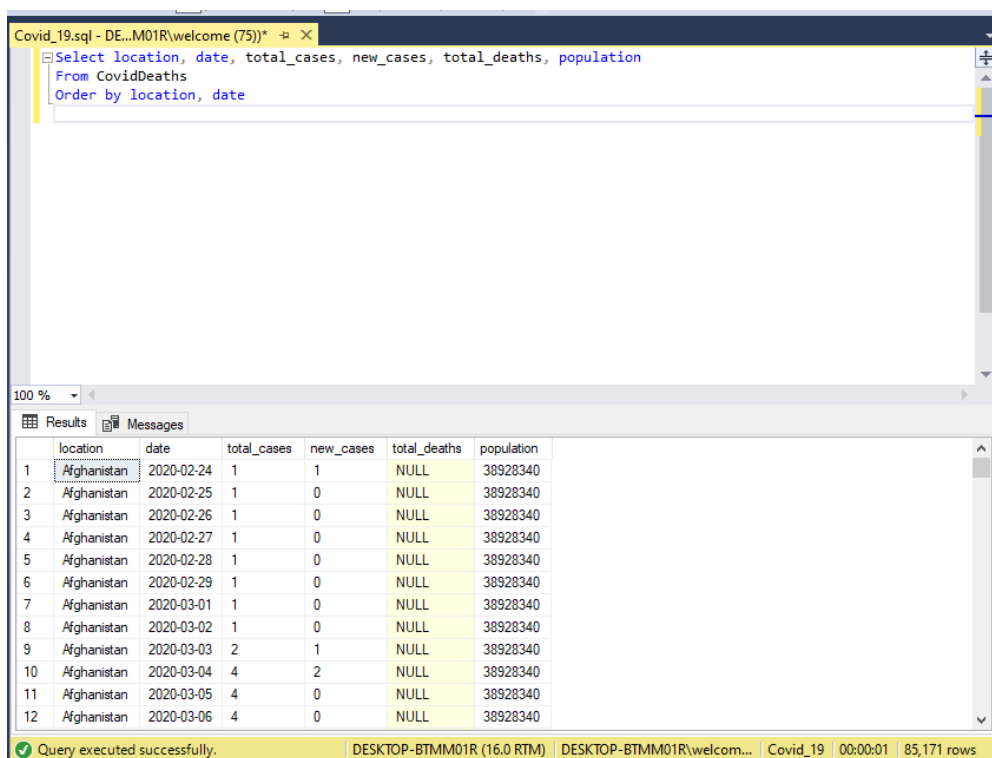
	iso_code	continent	location	date	population	total_cases	new_cases	total_deaths	new_deaths
1	AFG	Asia	Afghanistan	2020-02-24	38928340	1	1	NULL	NULL
2	AFG	Asia	Afghanistan	2020-02-25	38928340	1	0	NULL	NULL
3	AFG	Asia	Afghanistan	2020-02-26	38928340	1	0	NULL	NULL
4	AFG	Asia	Afghanistan	2020-02-27	38928340	1	0	NULL	NULL
5	AFG	Asia	Afghanistan	2020-02-28	38928340	1	0	NULL	NULL

--Select Data that we are going to be using

Select location, date, total_cases, new_cases, total_deaths, population

From CovidDeaths

Order by location, date



Query: Select location, date, total_cases, new_cases, total_deaths, population From CovidDeaths Order by location, date

	location	date	total_cases	new_cases	total_deaths	population
1	Afghanistan	2020-02-24	1	1	NULL	38928340
2	Afghanistan	2020-02-25	1	0	NULL	38928340
3	Afghanistan	2020-02-26	1	0	NULL	38928340
4	Afghanistan	2020-02-27	1	0	NULL	38928340
5	Afghanistan	2020-02-28	1	0	NULL	38928340
6	Afghanistan	2020-02-29	1	0	NULL	38928340
7	Afghanistan	2020-03-01	1	0	NULL	38928340
8	Afghanistan	2020-03-02	1	0	NULL	38928340
9	Afghanistan	2020-03-03	2	1	NULL	38928340
10	Afghanistan	2020-03-04	4	2	NULL	38928340
11	Afghanistan	2020-03-05	4	0	NULL	38928340
12	Afghanistan	2020-03-06	4	0	NULL	38928340

-- Looking at Total Cases vs Total Deaths Globally

```
Select sum(total_cases) as totalCases , sum(total_deaths) as totaldeaths,
(sum(total_deaths)/sum(total_cases))*100 as DeathPercentage
From CovidDeaths
Where continent is not null
```

The screenshot shows a SQL query window with the following query:

```
Select sum(total_cases) as totalCases , sum(total_deaths) as totaldeaths, (sum(total_deaths)/sum(total_cases))*100 as DeathPercentage
From CovidDeaths
Where continent is not null
```

The results pane shows a single row of data:

	totalCases	totaldeaths	DeathPercentage
1	21556751726	526443682	2.44233333333333

The status bar at the bottom indicates: Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 1 rows

-- Looking at Total Cases vs Total Deaths for each Country

```
Select location, sum(total_cases) as totalCases , sum(total_deaths) as totaldeaths,
(sum(total_deaths)/sum(total_cases))*100 as DeathPercentage
From CovidDeaths
Where continent is not null
group by location
order by location
```

The screenshot shows a SQL query window with the following query:

```
Select location, sum(total_cases) as totalCases , sum(total_deaths) as totaldeaths, (sum(total_deaths)/sum(total_cases))*100 as DeathPercentage
From CovidDeaths
Where continent is not null
group by location
order by location
```

The results pane shows a list of countries with their respective total cases, total deaths, and death percentage:

	location	totalCases	totaldeaths	DeathPercentage
1	Afghanistan	15177091	589552	3.88448616404817
2	Albania	15944337	305589	1.91659897805723
3	Algeria	24051593	736850	3.06362243864679
4	Andorra	1988468	28419	1.42919071365493
5	Angola	3885573	97040	2.49744374896573
6	Anguilla	NULL	NULL	NULL
7	Antigua and Barbuda	107776	2999	2.78262321852732
8	Argentina	408513244	10071947	2.46551296633115
9	Armenia	36149596	646113	1.78733117791966
10	Aruba	NULL	NULL	NULL
11	Australia	8578785	242043	2.82141352184488
12	Austria	79554512	1375401	1.72887868383882

The status bar at the bottom indicates: Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 210 rows

```
-- Looking at Total Cases vs Total Deaths in India
Select sum(total_cases) as totalCases , sum(total_deaths) as totaldeaths,
(sum(total_deaths)/sum(total_cases))*100 as DeathPercentage
From CovidDeaths
Where continent is not null and
location = 'India'
```

The screenshot shows a SQL query window with the following text:

```
Select sum(total_cases) as totalCases , sum(total_deaths) as totaldeaths, (sum(total_deaths)/sum(total_cases))*100 as DeathPercentage
From CovidDeaths
Where continent is not null and
location = 'India'
```

Below the query window, the 'Results' tab is active, displaying a single row of data:

	totalCases	totaldeaths	DeathPercentage
1	2522239194	36578144	1.45022502572371

The status bar at the bottom indicates: 'Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 1 rows'.

```
--Looking at Total Cases vs Population
--Shows what percentage of population got Covid
Select location, sum(total_cases) as total_cases, population,
(sum(total_cases)/population)*100 as CovidPercentage
From CovidDeaths
Where continent is not null
group by location, population
order by location
```

The screenshot shows a SQL query window with the following text:

```
Select location, sum(total_cases) as total_cases, population, (sum(total_cases)/population)*100 as CovidPercentage
From CovidDeaths
Where continent is not null
group by location, population
order by location
```

Below the query window, the 'Results' tab is active, displaying a list of 12 locations with their respective total cases, population, and Covid percentage:

	location	total_cases	population	CovidPercentage
1	Afghanistan	15177091	38928340	38.9872545297333
2	Albania	15944337	2877800	554.046042115505
3	Algeria	24051593	43851044	54.8483931192151
4	Andorra	1988468	77265	2573.56888630039
5	Angola	3885573	32866268	11.8223736263576
6	Anguilla	NULL	15002	NULL
7	Antigua and Barbuda	107776	97928	110.056367943795
8	Argentina	408513244	45195776	903.874831134662
9	Ameria	36149596	2963234	1219.93727123811
10	Aruba	NULL	106766	NULL
11	Australia	8578785	25499880	33.6424524350703
12	Austria	79554512	9006400	883.310890033754

The status bar at the bottom indicates: 'Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 210 rows'.

```
--Looking at Total Cases vs Population
--Shows what percentage of India population got Covid
Select location, sum(total_cases) as total_cases, population,
(sum(total_cases)/population)*100 as CovidPercentage
From CovidDeaths
Where continent is not null and location='India'
group by location, population
```

The screenshot shows a SQL query window with the following text:

```
Select location, sum(total_cases) as total_cases, population, (sum(total_cases)/population)*100 as CovidPercentage
From CovidDeaths
Where continent is not null and location='India'
group by location, population
```

Below the query window, the 'Results' tab displays a single row of data:

	location	total_cases	population	CovidPercentage
1	India	2522239194	1380004352	182.770379698049

The status bar at the bottom indicates: 'Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 1 rows'.

```
--Looking at Countries with Highest Infection Rate compared to Population and
total_cases
Select top 1 location, sum(total_cases) as total_cases, population,
(sum(total_cases)/population)*100 as CovidPercentage
From CovidDeaths
group by location, population
Order by CovidPercentage desc
```

The screenshot shows a SQL query window with the following text:

```
Select top 1 location, sum(total_cases) as total_cases, population,
(sum(total_cases)/population)*100 as CovidPercentage
From CovidDeaths
group by location, population
Order by CovidPercentage desc
```

Below the query window, the 'Results' tab displays a single row of data:

	location	total_cases	population	CovidPercentage
1	Andorra	1989468	77265	2573.56888630039

The status bar at the bottom indicates: 'Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 1 rows'.

```
--Showing Countries with Highest Death Count
Select location,sum(total_deaths) as TotalDeathCount
From CovidDeaths
Where continent is not null
Group by location
Order by TotalDeathCount desc
```

Covid_19.sql - DE...M01R\welcome (75))

```
Select location,sum(total_deaths) as TotalDeathCount
From CovidDeaths
Where continent is not null
Group by location
Order by TotalDeathCount desc
```

100 %

Results Messages

	location	TotalDeathCount
1	United States	106611210
2	Brazil	60047815
3	Mexico	36622615
4	India	36578144
5	United Kingdom	25219149
6	Italy	22409670
7	France	19603382
8	Spain	16767799
9	Russia	15069275
10	Iran	13528093
11	Colombia	11636649
12	Peru	11292517

Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 210 rows

```
--Global Numbers
--Total Cases, Death, and Death Percentage by Date
Select date, SUM(new_cases) as TotalCases, SUM(new_deaths) as TotalDeaths,
SUM(new_deaths)/SUM(new_cases)*100 as DeathPercentage
From CovidDeaths
Where continent is not null
Group by date
Order by date
```

Covid_19.sql - DE...M01R\welcome (75))

```
Select date, SUM(new_cases) as TotalCases, SUM(new_deaths) as TotalDeaths, SUM(new_deaths)/SUM(new_cases)*100 as DeathPercentage
From CovidDeaths
Where continent is not null
Group by date
Order by date
```

100 %

Results Messages

	date	TotalCases	TotalDeaths	DeathPercentage
25	2020-01-25	492	16	3.25203252032...
26	2020-01-26	685	14	2.04379562043...
27	2020-01-27	809	26	3.21384425216...
28	2020-01-28	2651	49	1.84835910976...
29	2020-01-29	589	2	0.33955857385...
30	2020-01-30	2068	38	1.83752417794...
31	2020-01-31	1692	42	2.48226950354...
32	2020-02-01	2111	46	2.17906205589...
33	2020-02-02	4749	103	2.16887765845...
34	2020-02-03	3100	64	2.06451612903...
35	2020-02-04	4011	66	1.64547494390...
36	2020-02-05	3745	72	1.92256341789...

Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 486 rows

```
-- Looking at Total Vaccinations Globally
Select sum(total_vaccinations) as totalVaccinations
From CovidVaccinations
Where continent is not null
```

The screenshot shows a SQL Server Enterprise Manager window with a query editor at the top containing the following SQL code:

```
-- Looking at Total Vaccinations Globally
Select sum(total_vaccinations) as totalVaccinations
From CovidVaccinations
Where continent is not null
```

Below the query editor, the 'Results' tab is active, displaying a single row of data:

	totalVaccinations
1	39828370978

The status bar at the bottom indicates: 'Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 1 rows'.

```
-- Looking at Total Vaccinations for each Country
select location, SUM(total_vaccinations) as total_vaccinations
from CovidVaccinations
Where continent is not null
group by location
order by location
```

The screenshot shows a SQL Server Enterprise Manager window with a query editor at the top containing the following SQL code:

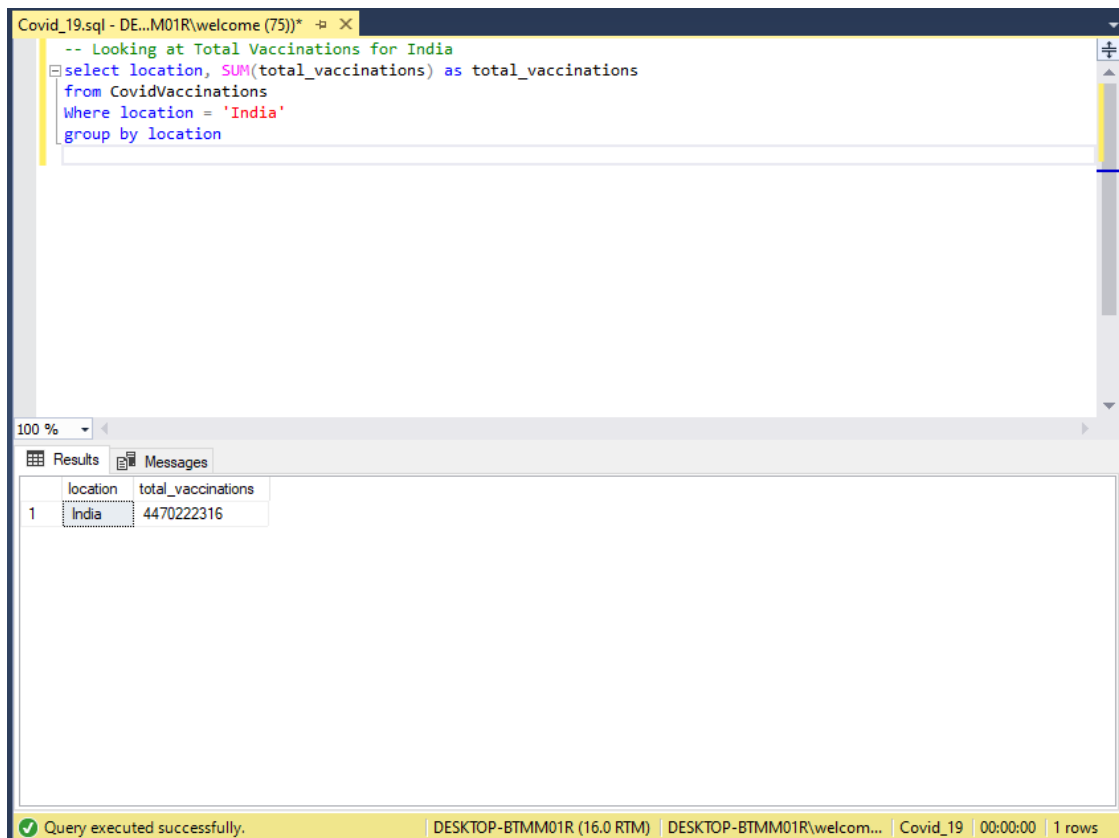
```
-- Looking at Total Vaccinations for each Country
select location, SUM(total_vaccinations) as total_vaccinations
from CovidVaccinations
Where continent is not null
group by location
order by location
```

Below the query editor, the 'Results' tab is active, displaying a list of countries and their total vaccinations:

	location	total_vaccinations
1	Afghanistan	422200
2	Albania	9189890
3	Algeria	75030
4	Andorra	128036
5	Angola	1551757
6	Anguilla	35813
7	Antigua and Barbuda	244532
8	Argentina	272301844
9	Armenia	565
10	Aruba	1174715
11	Australia	49944644
12	Austria	124783296

The status bar at the bottom indicates: 'Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 210 rows'.

```
-- Looking at Total Vaccinations for India
select location, SUM(total_vaccinations) as total_vaccinations
from CovidVaccinations
Where location = 'India'
group by location
```



The screenshot shows a SQL IDE window titled 'Covid_19.sql - DE...M01R\welcome (75))'. The query editor contains the following SQL code:

```
-- Looking at Total Vaccinations for India
select location, SUM(total_vaccinations) as total_vaccinations
from CovidVaccinations
Where location = 'India'
group by location
```

The 'Results' tab is active, displaying a table with the following data:

	location	total_vaccinations
1	India	4470222316

The status bar at the bottom indicates: 'Query executed successfully. | DESKTOP-BTMM01R (16.0 RTM) | DESKTOP-BTMM01R\welcom... | Covid_19 | 00:00:00 | 1 rows'.

```
--Looking at Total Population vs Vaccinations
-- Using CTE and Left Join
with CD as (
Select location, sum(total_cases) as total_cases, population
From CovidDeaths
Where continent is not null
group by location, population)
select cd.location, cd.total_cases, cd.population,
sum(cv.total_vaccinations) as total_vaccinations
from CD as cd left join
CovidVaccinations as cv on
cd.location = cv.location
group by cv.location, cd.location, cd.total_cases, cd.population
order by cd.location
```

Covid_19.sql - DE...M01R\welcome (75))*

```
--Looking at Total Population vs Vaccinations
-- Using CTE and Left Join
with CD as (
Select location, sum(total_cases) as total_cases, population
From CovidDeaths
Where continent is not null
group by location, population)
select cd.location, cd.total_cases, cd.population,
sum(cv.total_vaccinations) as total_vaccinations
from CD as cd left join
CovidVaccinations as cv on
cd.location = cv.location
group by cv.location, cd.location, cd.total_cases, cd.population
order by cd.location
```

100 %

Results Messages

	location	total_cases	population	total_vaccinations
1	Afghanistan	15177091	38928340	422200
2	Albania	15944337	2877800	9189890
3	Algeria	24051593	43851044	75030
4	Andorra	1988468	77265	128036
5	Angola	3885573	32866268	1551757
6	Anguilla	NULL	15002	35813
7	Antigua and Barbuda	107776	97928	244532
8	Argentina	408513244	45195776	272301844
9	Armenia	36149596	2963234	565
10	Aruba	NULL	106766	1174715
11	Australia	8578785	25499880	49944644
12	Austria	79554512	9006400	124783296

Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 210 rows

```
--Looking at Total Cases vs Vaccinations
-- Using CTE and Left Join
with CD as (
Select location, sum(total_cases) as total_cases, population
From CovidDeaths
Where continent is not null
group by location, population)
select cd.location, cd.total_cases, cd.population,
sum(cv.total_vaccinations) as total_vaccination,
(sum(cv.total_vaccinations)/total_cases)*100 as totalVaccPerWithCases
from CD as cd left join
CovidVaccinations as cv on
cd.location = cv.location
group by cv.location, cd.location, cd.total_cases, cd.population
order by cd.location
```


Covid_19.sql - DE...M01R\welcome (75))

```
--Looking at Total Cases vs Vaccinations
-- Using CTE and Left Join
with CD as (
  Select location, sum(total_cases) as total_cases, population
  From CovidDeaths
  Where continent is not null
  group by location, population)
select cd.location, cd.total_cases, cd.population,
sum(cv.total_vaccinations) as total_vaccination, (sum(cv.total_vaccinations)/total_cases)*100 as totalVaccPerWithCases
from CD as cd left join
CovidVaccinations as cv on
cd.location = cv.location
group by cv.location, cd.location, cd.total_cases, cd.population
order by cd.location
```

100 %

Results Messages

	location	total_cases	population	total_vaccination	totalVaccPerWithCases
1	Afghanistan	15177091	38928340	422200	2.7818242639515
2	Albania	15944337	2877800	9189890	57.6373291658349
3	Algeria	24051593	43851044	75030	0.311954389050239
4	Andorra	1988468	77265	128036	6.43892685222996
5	Angola	3885573	32866268	1551757	39.9363748924547
6	Anguilla	NULL	15002	35813	NULL
7	Antigua and Barbuda	107776	97928	244532	226.889103325416
8	Argentina	408513244	45195776	272301844	66.6567970560093
9	Armenia	36149596	2963234	565	0.0015629496938223
10	Aruba	NULL	106766	1174715	NULL
11	Australia	8578785	25499880	49944644	582.187850610547
12	Austria	79554512	9006400	124783296	156.852569216941

Query executed successfully. | DESKTOP-BTMM01R (16.0 RTM) | DESKTOP-BTMM01R\welcom... | Covid_19 | 00:00:00 | 210 rows

```
--Looking at Total Population vs Vaccinations
-- Using CTE and Left Join
with CD as (
  Select location, sum(total_cases) as total_cases, population
  From CovidDeaths
  Where continent is not null
  group by location, population)
select cd.location, cd.total_cases, cd.population,
sum(cv.total_vaccinations) as total_vaccination,
(sum(cv.total_vaccinations)/population)*100 as totalVaccPerWithPopulation
from CD as cd left join
CovidVaccinations as cv on
cd.location = cv.location
group by cv.location, cd.location, cd.total_cases, cd.population
order by cd.location
```

Covid_19.sql - DE...M01R(welcome (75))

```
--Looking at Total Population vs Vaccinations
-- Using CTE and Left Join
with CD as (
Select location, sum(total_cases) as total_cases, population
From CovidDeaths
Where continent is not null
group by location, population)
select cd.location, cd.total_cases, cd.population,
sum(cv.total_vaccinations) as total_vaccination, (sum(cv.total_vaccinations)/population)*100 as totalVaccPerWithPopulation
from CD as cd left join
CovidVaccinations as cv on
cd.location = cv.location
group by cv.location, cd.location, cd.total_cases, cd.population
order by cd.location
```

100 %

Results Messages

	location	total_cases	population	total_vaccination	totalVaccPerWithPopulation
1	Afghanistan	15177091	38928340	422200	1.08455690635665
2	Albania	15944337	2877800	9189890	319.337341024394
3	Algeria	24051593	43851044	75030	0.171101969658921
4	Andorra	1988468	77265	128036	165.710218080632
5	Angola	3885573	32866268	1551757	4.72142745260886
6	Anguilla	NULL	15002	35813	238.721503799493
7	Antigua and Barbuda	107776	97928	244532	249.705906380198
8	Argentina	408513244	45195776	272301844	602.494011829778
9	Armenia	36149596	2963234	565	0.0190670058456403
10	Aruba	NULL	106766	1174715	1100.2706854242
11	Australia	8578785	25499880	49944644	195.862270724411
12	Austria	79554512	9006400	124783296	1385.49582519098

Query executed successfully. DESKTOP-BTMM01R (16.0 RTM) DESKTOP-BTMM01R\welcom... Covid_19 00:00:00 210 rows

--Created View for Total Population vs Vaccinations for further use of resultant view
 --Using CTE and Left Join

```
Create View PercentPopulationVaccinated as
with CD as (
Select location, sum(total_cases) as total_cases, population
From CovidDeaths
Where continent is not null
group by location, population)
select cd.location, cd.total_cases, cd.population,
sum(cv.total_vaccinations) as total_vaccination,
(sum(cv.total_vaccinations)/population)*100 as totalVaccPerWithPopulation
from CD as cd left join
CovidVaccinations as cv on
cd.location = cv.location
group by cv.location, cd.location, cd.total_cases, cd.population
```

--Using View for finding top country with maximum Vaccinated
 Select top 1 location, totalVaccPerWithPopulation
 From PercentPopulationVaccinated
 group by location, totalVaccPerWithPopulation
 order by totalVaccPerWithPopulation desc

Covid_19.sql - DE...M01R\welcome (75))

```
--Using View for finding top country with maximum Vaccinated
Select top 1 location, totalVaccPerWithPopulation
From PercentPopulationVaccinated
group by location, totalVaccPerWithPopulation
order by totalVaccPerWithPopulation desc
```

100 %

Results Messages

	location	totalVaccPerWithPopulation
1	Israel	10105.5999850269

Query executed successfully. | DESKTOP-BTMM01R (16.0 RTM) | DESKTOP-BTMM01R\welcom... | Covid_19 | 00:00:00 | 1 rows

--Using View for finding India's Vaccinated Percentage
Select location, totalVaccPerWithPopulation
From PercentPopulationVaccinated where location='India'
group by location, totalVaccPerWithPopulation

Covid_19.sql - DE...M01R\welcome (75))

```
--Using View for finding India's Vaccinated Percentage
Select location, totalVaccPerWithPopulation
From PercentPopulationVaccinated where location='India'
group by location, totalVaccPerWithPopulation
```

100 %

Results Messages

	location	totalVaccPerWithPopulation
1	India	323.928131786066

Query executed successfully. | DESKTOP-BTMM01R (16.0 RTM) | DESKTOP-BTMM01R\welcom... | Covid_19 | 00:00:00 | 1 rows