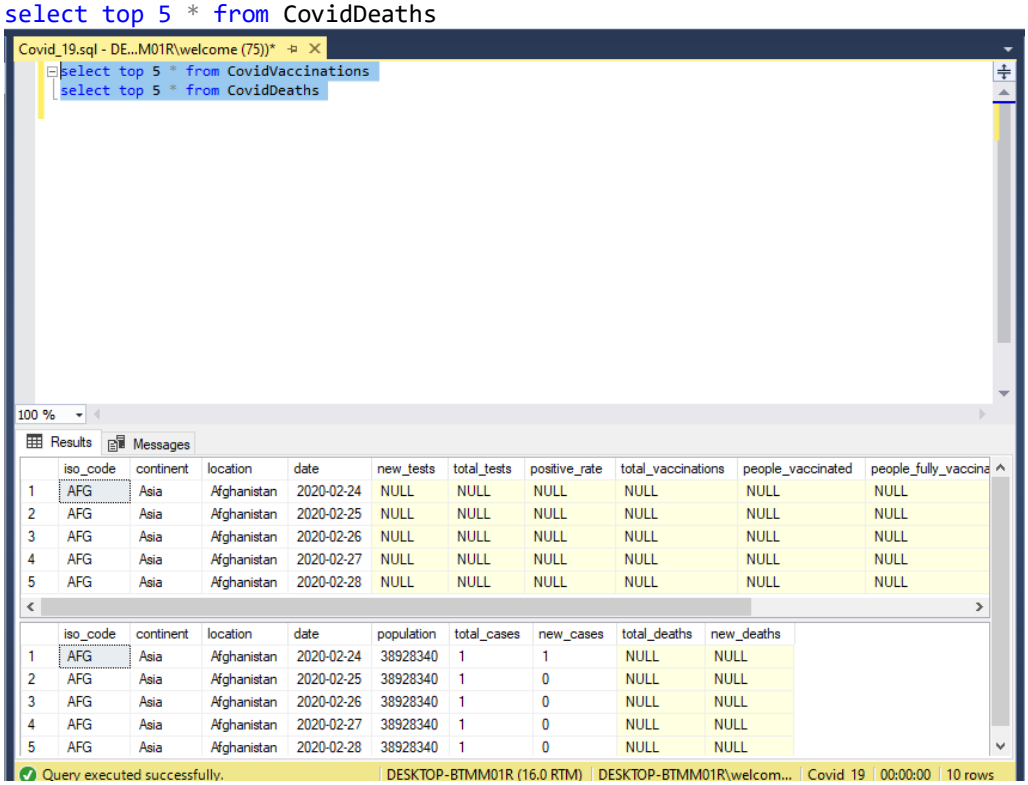
Covid-19 Dataset Analysis - Pushpam

```
--Select Data
Select top 5 * from CovidVaccinations
select top 5 * from CovidDeaths
```



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

```
select top 5 * from CovidVaccinations
select top 5 * from CovidDeaths
```

100 %

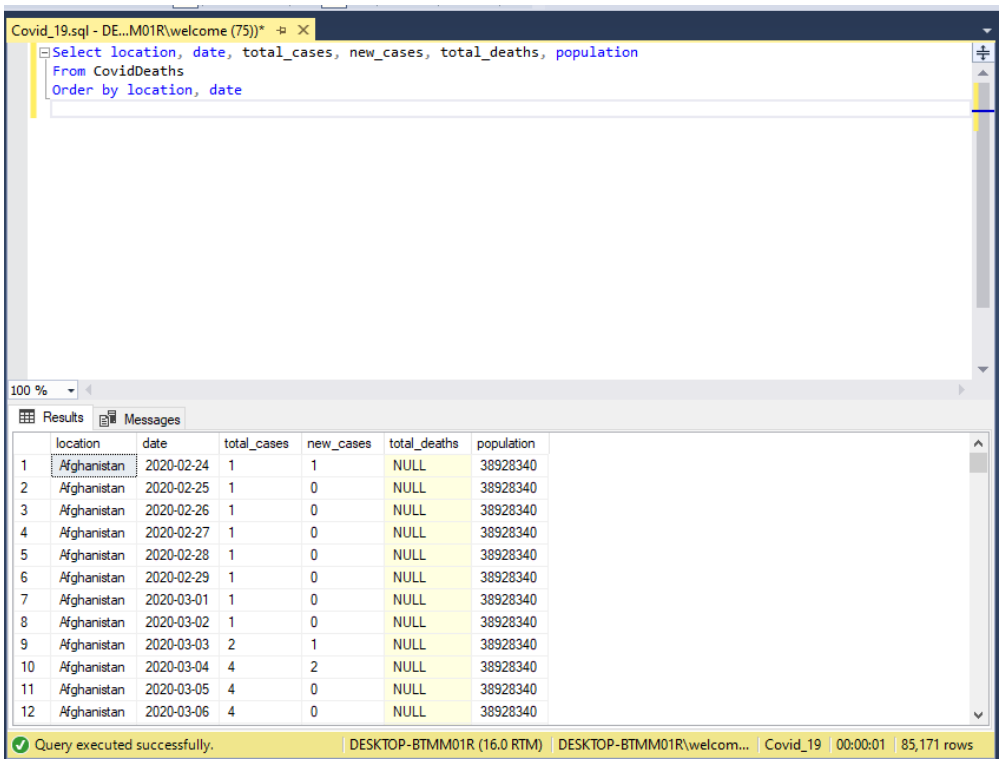
Results | Messages

	iso_code	continent	location	date	new_tests	total_tests	positive_rate	total_vaccinations	people_vaccinated	people_fully_vaccina
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

	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

Query executed successfully. | DESKTOP-BTMM01R (16.0 RTM) | DESKTOP-BTMM01R\welcom... | Covid_19 | 00:00:00 | 10 rows

```
--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
```



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

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

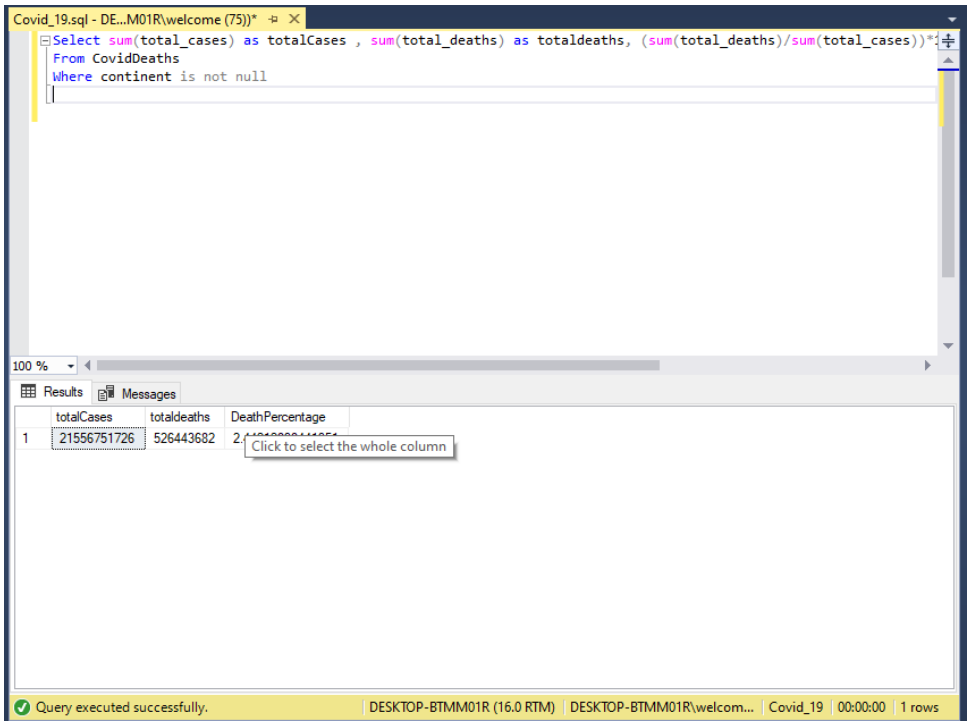
100 %

Results | Messages

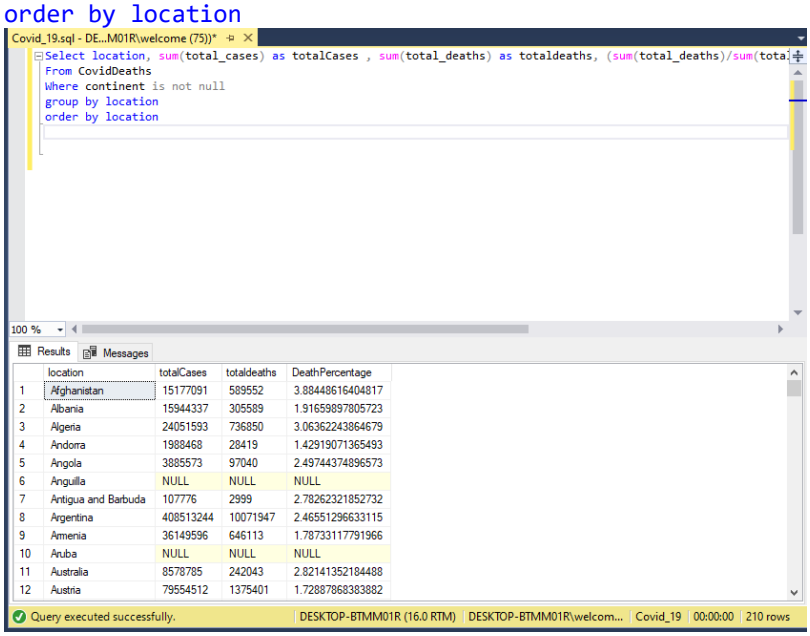
	location	date	total_cases	new_cases	total_deaths	population
1	Afghanistan	2020-02-24	1	1	NULL	38928340
2	Afghanistan	2020-02-25	1	0	NULL	38928340
3	Afghanistan	2020-02-26	1	0	NULL	38928340
4	Afghanistan	2020-02-27	1	0	NULL	38928340
5	Afghanistan	2020-02-28	1	0	NULL	38928340
6	Afghanistan	2020-02-29	1	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

Query executed successfully. | DESKTOP-BTMM01R (16.0 RTM) | DESKTOP-BTMM01R\welcom... | Covid_19 | 00:00:01 | 85,171 rows

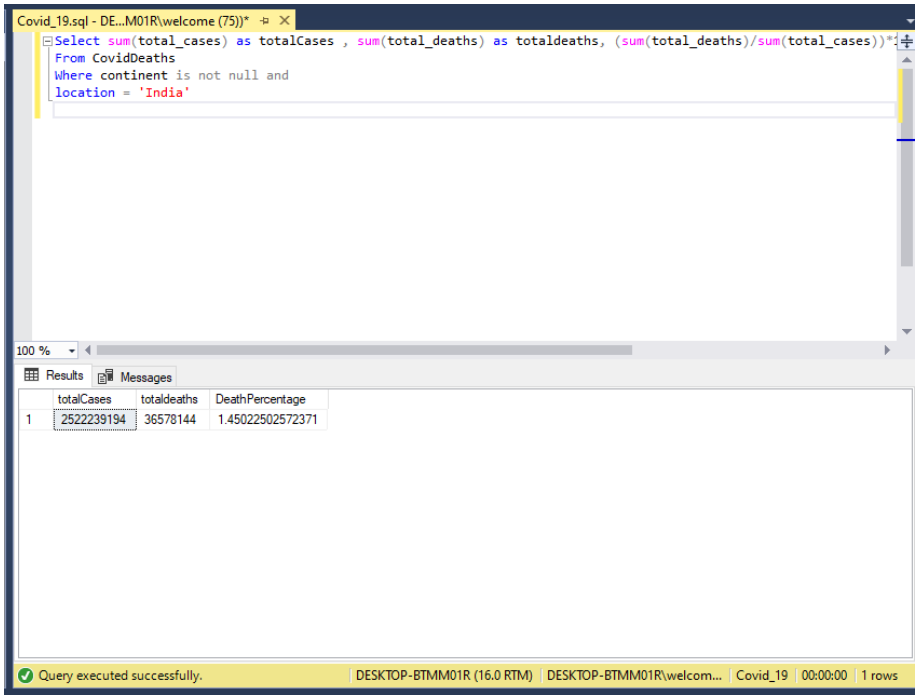
```sql
-- Looking at Total Cases vs Total Deaths Globally
Select sum(total_cases) as totalCases , sum(total_deaths) as totaldeaths,
(sum(total_deaths)/sum(total_cases))*100 as DeathPercentage
From CovidDeaths
Where continent is not null
```



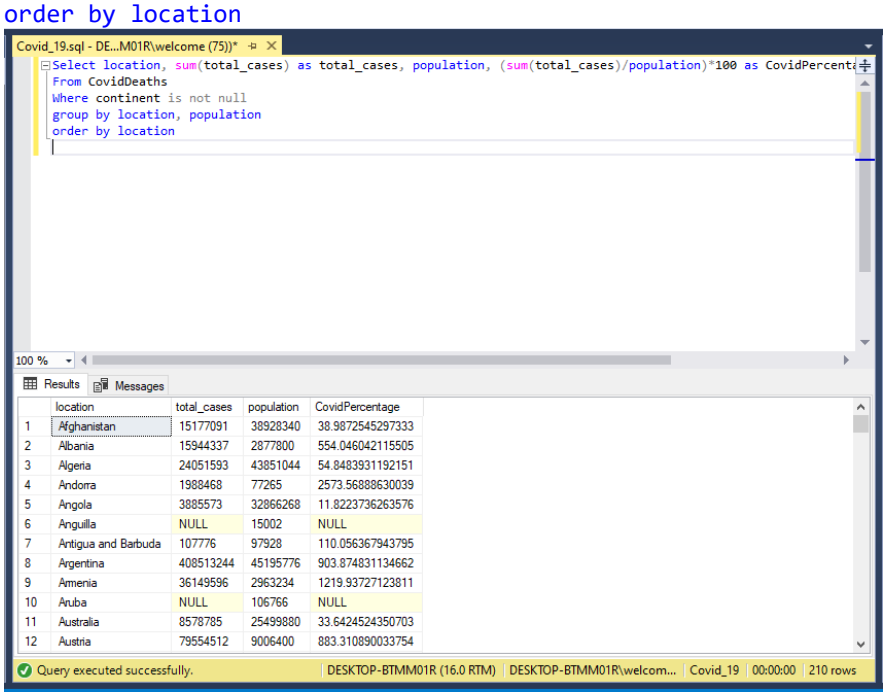

```sql
-- Looking at Total Cases vs Total Deaths for each Country
Select location, sum(total_cases) as totalCases , sum(total_deaths) as totaldeaths,
(sum(total_deaths)/sum(total_cases))*100 as DeathPercentage
From CovidDeaths
Where continent is not null
group by location
order by location
```



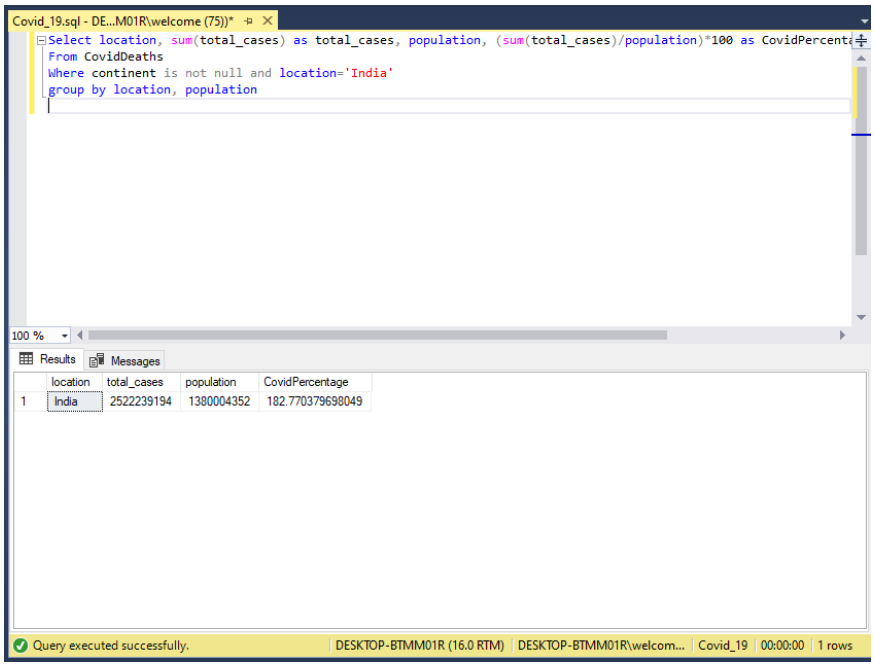
```sql
-- Looking at Total Cases vs Total Deaths in India
Select sum(total_cases) as totalCases , sum(total_deaths) as totaldeaths,
(sum(total_deaths)/sum(total_cases))*100 as DeathPercentage
From CovidDeaths
Where continent is not null and
location = 'India'
```



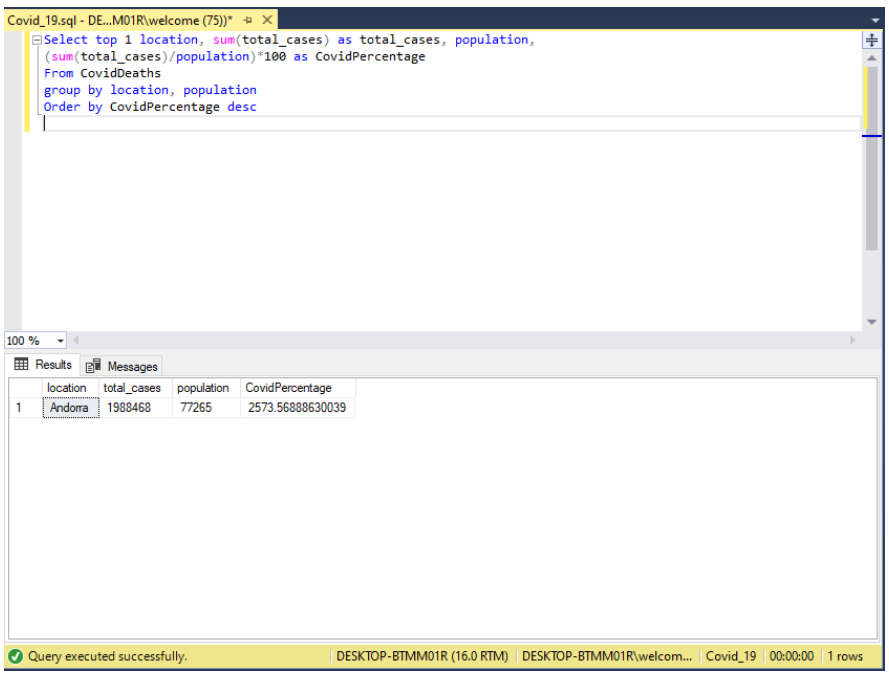

```sql
--Looking at Total Cases vs Population
--Shows what percentage of population got Covid
Select location, sum(total_cases) as total_cases, population,
(sum(total_cases)/population)*100 as CovidPercentage
From CovidDeaths
Where continent is not null
group by location, population
order by location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



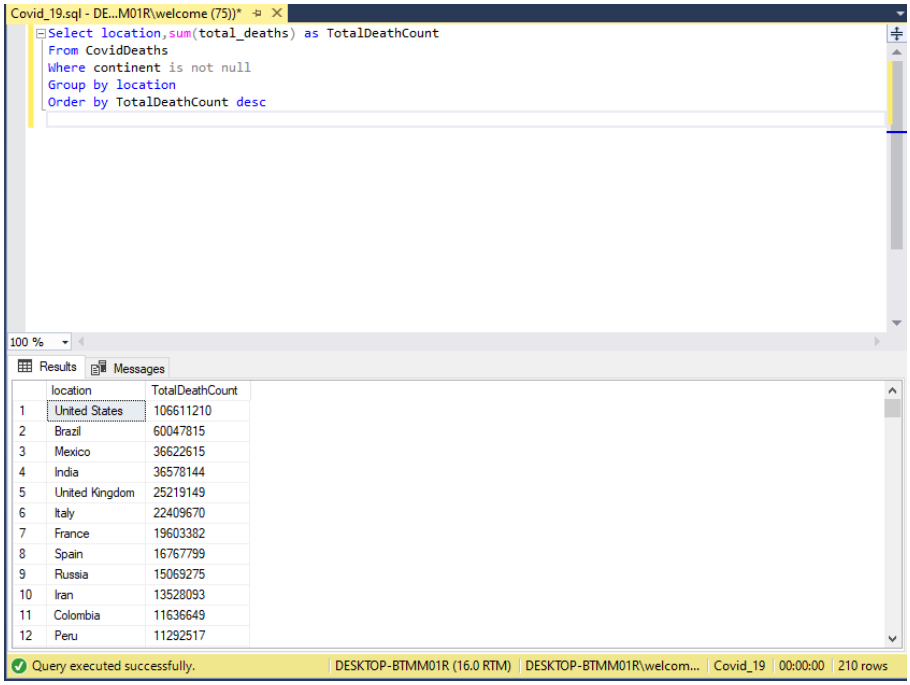
```sql
--Looking at Total Cases vs Population
--Shows what percentage of India population got Covid
Select location, sum(total_cases) as total_cases, population,
(sum(total_cases)/population)*100 as CovidPercentage
From CovidDeaths
Where continent is not null and location='India'
group by location, population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




```sql
--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
```

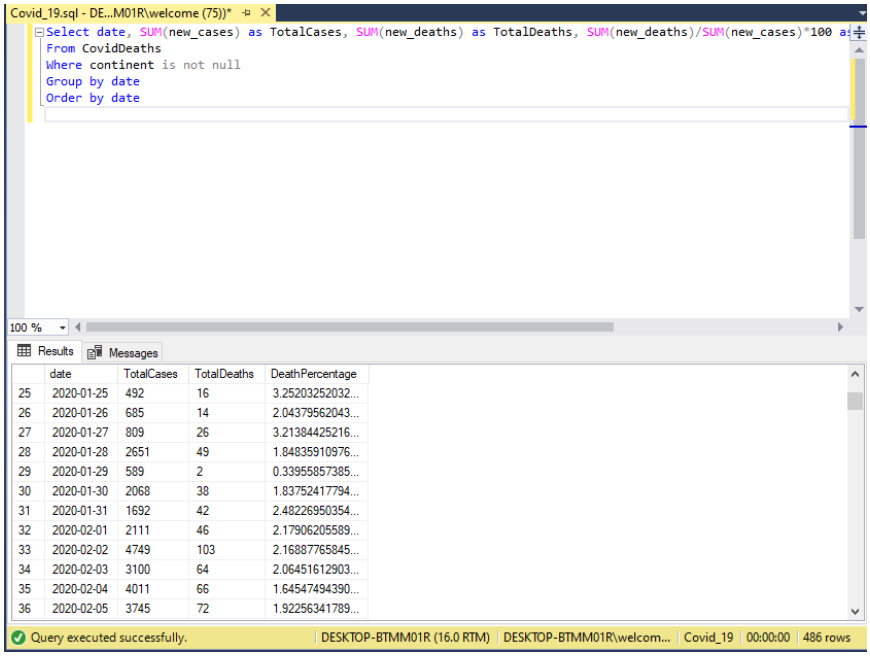


```sql
--Showing Countries with Highest Death Count
Select location,sum(total_deaths) as TotalDeathCount
From CovidDeaths
Where continent is not null
Group by location
Order by TotalDeathCount desc
```



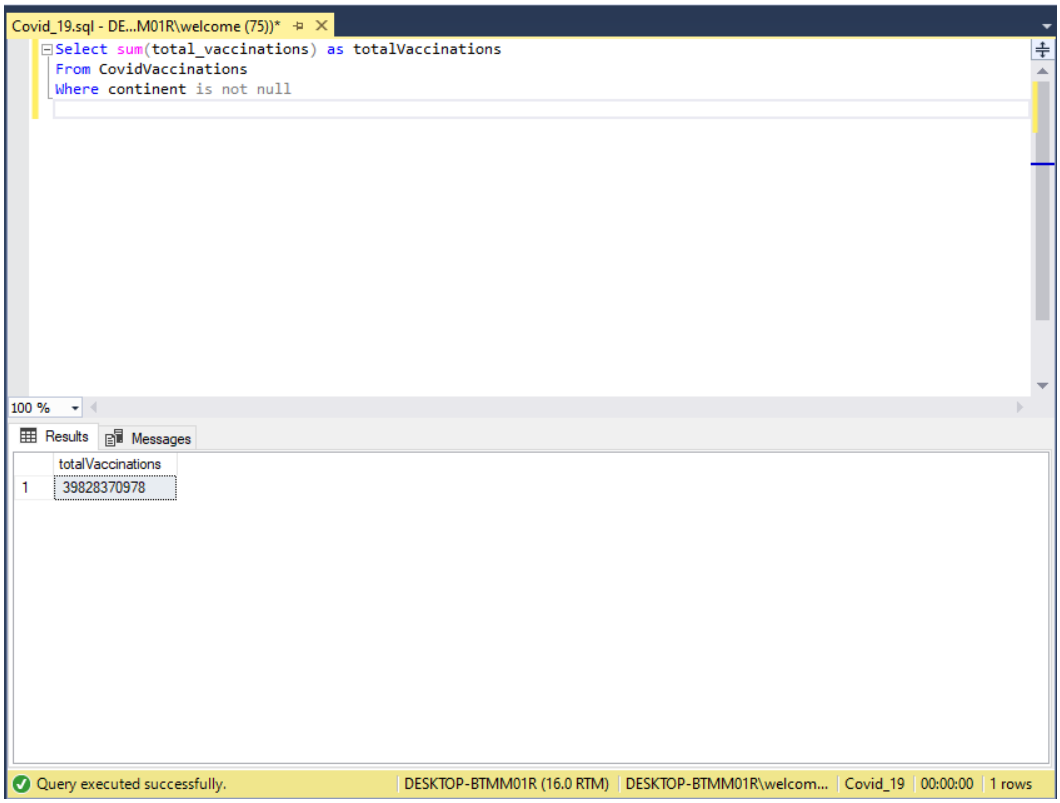
	location	TotalDeathCount
1	United States	106611210
2	Brazil	60047815
3	Mexico	36622615
4	India	36578144
5	United Kingdom	25219149
6	Italy	22409670
7	France	19603382
8	Spain	16767799
9	Russia	15069275
10	Iran	13528093
11	Colombia	11636649
12	Peru	11292517


```sql
--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
```

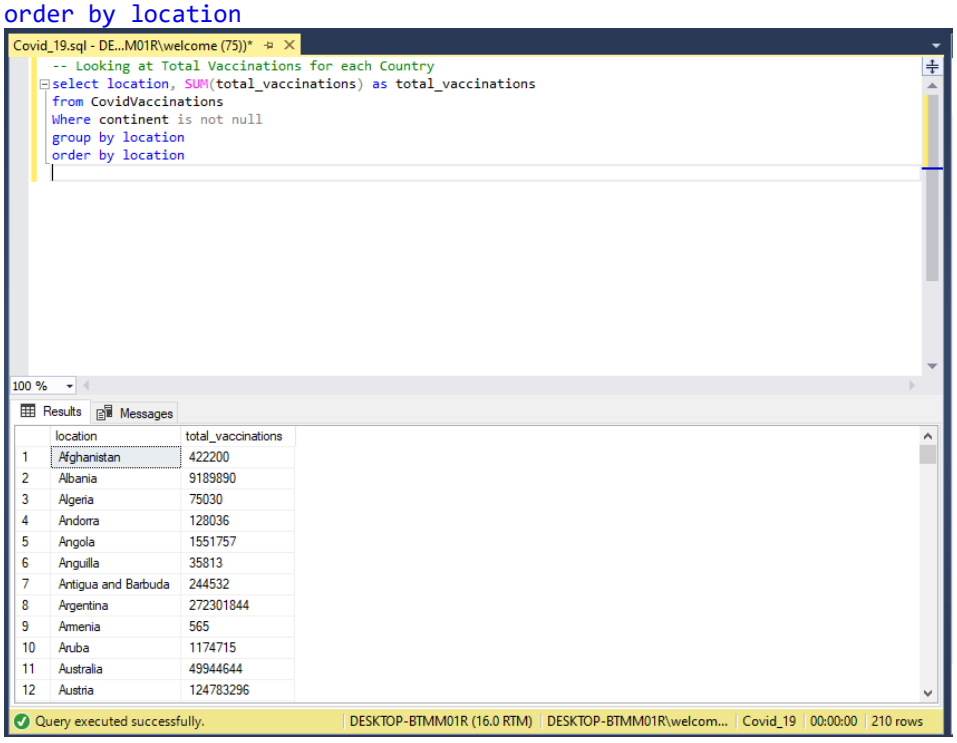


	date	TotalCases	TotalDeaths	DeathPercentage
25	2020-01-25	492	16	3.25203252032...
26	2020-01-26	685	14	2.04379562043...
27	2020-01-27	809	26	3.21384425216...
28	2020-01-28	2651	49	1.84835910976...
29	2020-01-29	589	2	0.33955857385...
30	2020-01-30	2068	38	1.83752417794...
31	2020-01-31	1692	42	2.48226950354...
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...

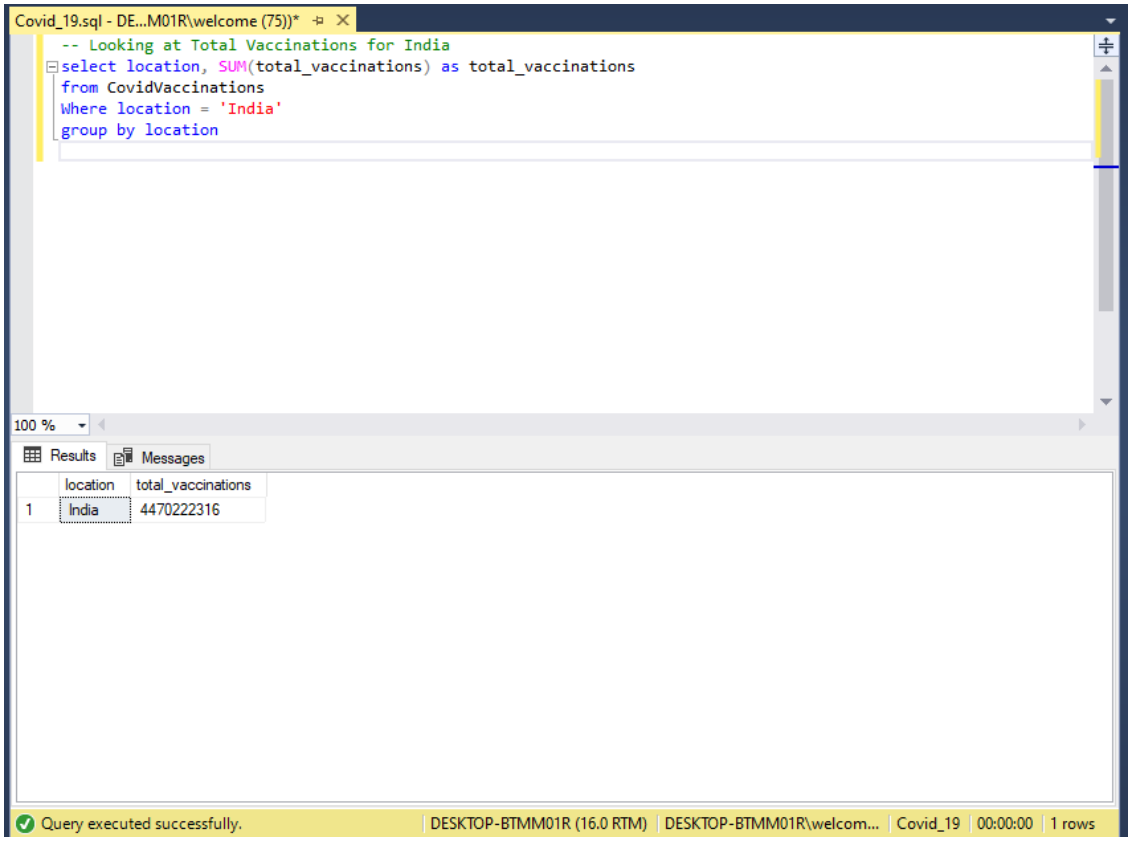
```sql
-- Looking at Total Vaccinations Globally
Select sum(total_vaccinations) as totalVaccinations
From CovidVaccinations
Where continent is not null
```



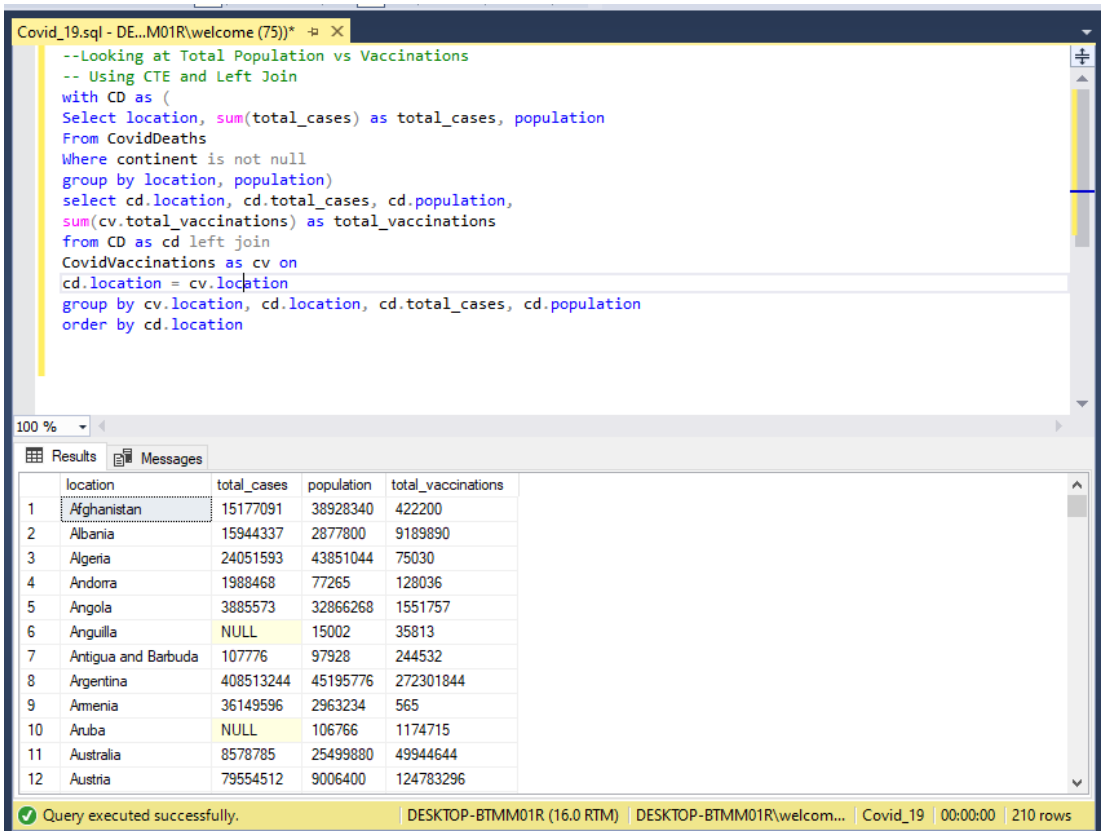

```sql
-- Looking at Total Vaccinations for each Country
select location, SUM(total_vaccinations) as total_vaccinations
from CovidVaccinations
Where continent is not null
group by location
order by location
```



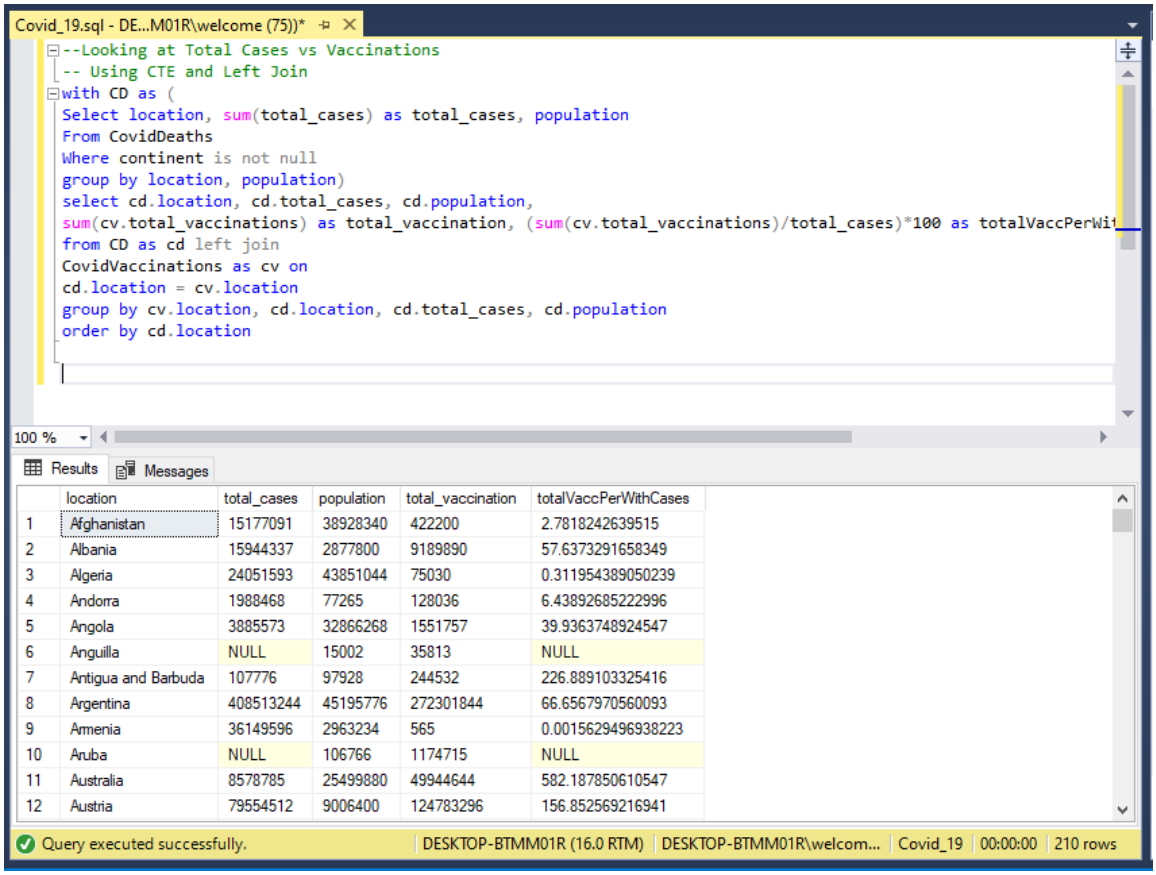
```sql
-- Looking at Total Vaccinations for India
select location, SUM(total_vaccinations) as total_vaccinations
from CovidVaccinations
Where location = 'India'
group by location
```



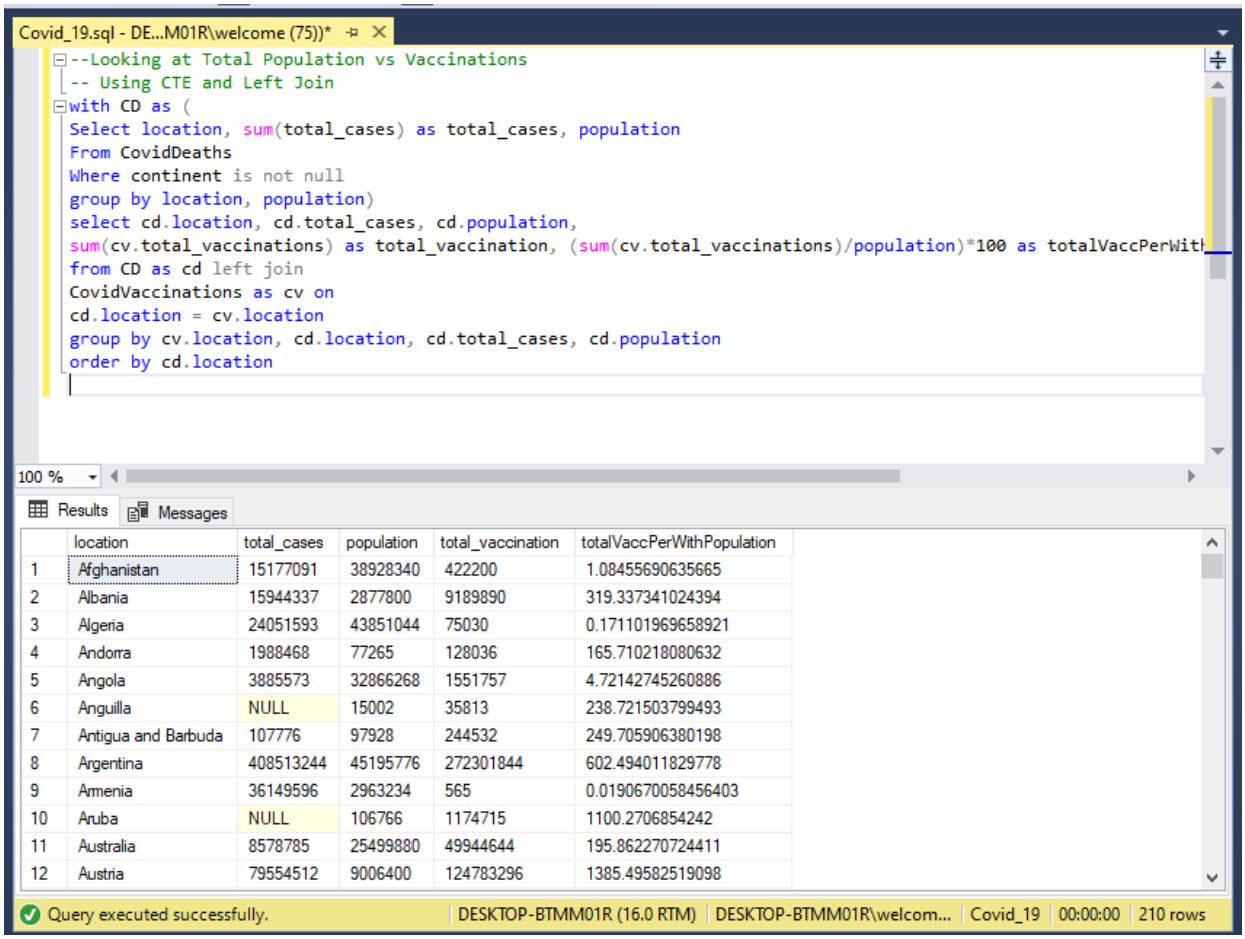

```sql
--Looking at Total Population vs Vaccinations
-- Using CTE and Left Join
with CD as (
Select location, sum(total_cases) as total_cases, population
From CovidDeaths
Where continent is not null
group by location, population)
select cd.location, cd.total_cases, cd.population,
sum(cv.total_vaccinations)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




```sql
--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
```

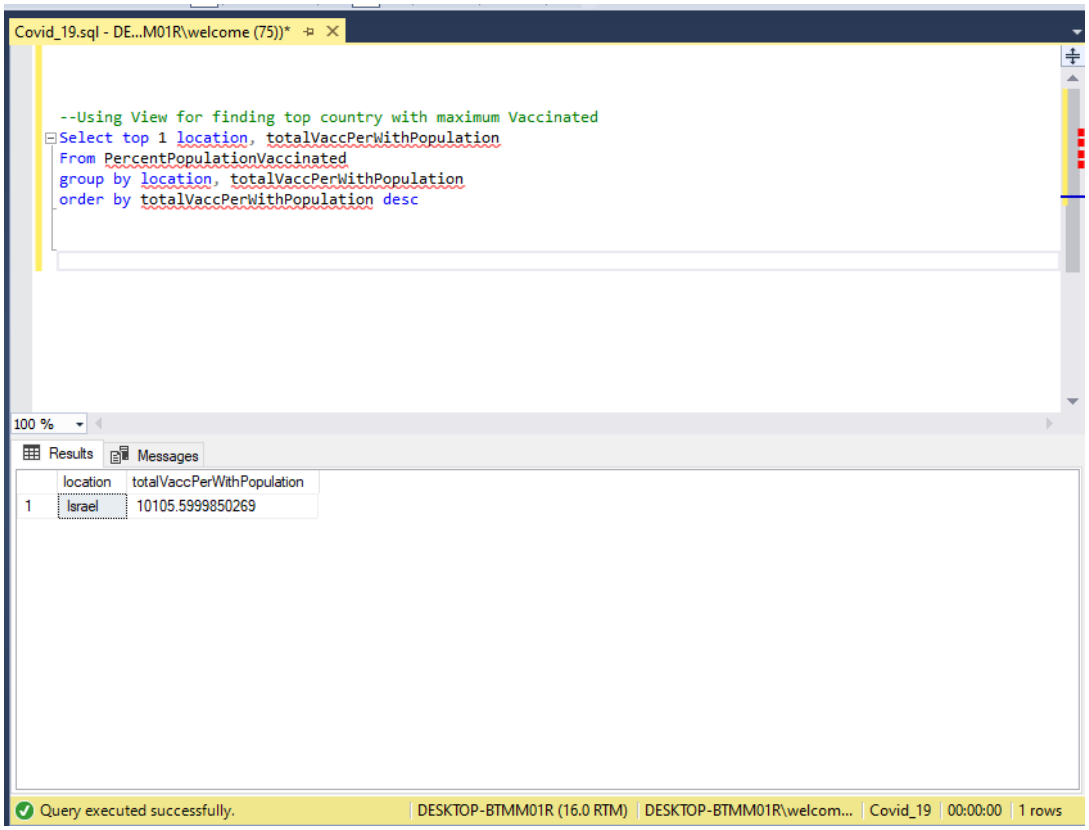



```sql
--Looking at Total Population vs Vaccinations
-- Using CTE and Left Join
with CD as (
Select location, sum(total_cases) as total_cases, population
From CovidDeaths
Where continent is not null
group by location, population)
select cd.location, cd.total_cases, cd.population,
sum(cv.total_vaccinations)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




```sql
--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
```




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