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--Finding the total cases and total deaths in the state of Georgia
SELECT location,date,total_cases, new_cases, total_deaths, population
FROM covid_case.dbo.deaths
WHERE location = 'Georgia' and total_cases IS NOT NULL AND total_deaths IS NOT NULL
ORDER BY 1, 2;

--Finding death rate in % = (deaths/cases)*100--. location in Colombia
SELECT location,date,total_cases,total_deaths, ROUND((total_deaths/CAST(total_cases AS FLOAT))*100
FROM covid_case.dbo.deaths
WHERE location = 'Colombia' and total_cases IS NOT NULL AND total_deaths IS NOT NULL
Order by 2;

--Cases per population in % = (total cases/population)*100
SELECT location,date,total_cases,total_deaths, ROUND((CAST(total_cases AS FLOAT)/population)*100,
FROM covid_case.dbo.deaths
WHERE location like '%india%' AND total_deaths IS NOT NULL
Order by 1,2;

--Highest infection rate

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1 %

location	date	total_cases	new_cases	total_deaths	population
Georgia	2020-04-05	170	13	1	3744385
Georgia	2020-04-06	188	18	2	3744385
Georgia	2020-04-07	195	7	2	3744385
Georgia	2020-04-08	208	13	3	3744385
Georgia	2020-04-09	214	6	3	3744385
Georgia	2020-04-10	230	16	3	3744385
Georgia	2020-04-11	233	3	3	3744385
Georgia	2020-04-12	252	19	3	3744385
Georgia	2020-04-13	266	14	3	3744385
Georgia	2020-04-14	296	30	3	3744385

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--Finding death rate in % = (deaths/cases)*100--. location in Colombia
SELECT location,date,total_cases,total_deaths, ROUND((total_deaths/CAST(total_cases AS FLOAT))*100, 2) "Percent Death Rate"
FROM covid_case.dbo.deaths
WHERE location = 'Colombia' and total_cases IS NOT NULL AND total_deaths IS NOT NULL
Order by 2;

--Cases per population in % = (total cases/population)*100
SELECT location,date,total_cases,total_deaths, ROUND((CAST(total_cases AS FLOAT)/population)*100, 2) "Infection Rate", ROUND((total_death
FROM covid_case.dbo.deaths
WHERE location like '%india%' AND total_deaths IS NOT NULL
Order by 1,2;

--Highest infection rate

```

00 %

	location	date	total_cases	total_deaths	Percent Death Rate
1	Colombia	2020-03-23	196	2	1.02
2	Colombia	2020-03-24	277	3	1.08
3	Colombia	2020-03-25	306	3	0.98
4	Colombia	2020-03-26	378	3	0.79
5	Colombia	2020-03-27	470	4	0.85
6	Colombia	2020-03-28	491	6	1.22
7	Colombia	2020-03-29	723	6	0.83
8	Colombia	2020-03-30	792	6	0.76
9	Colombia	2020-03-31	702	10	1.42
10	Colombia	2020-04-01	798	14	1.75

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--Cases per population in % = (total cases/population)*100
SELECT location,date,total_cases,total_deaths, ROUND((CAST(total_cases AS FLOAT)/population)*100, 2) "Infection Rate",
ROUND((total_deaths/CAST(total_cases AS FLOAT))*100, 2) "Death Rate"
FROM covid_case.dbo.deaths
WHERE location like '%india%' AND total_deaths IS NOT NULL
Order by 1,2;

--Highest infection rate
SELECT location,population,MAX(CAST(total_cases AS FLOAT)) as HighestCase,ROUND(MAX(CAST(total_cases AS FLOAT)/populati
FROM covid_case.dbo.deaths WHERE continent IS NOT NULL
GROUP BY location,population
ORDER BY population DESC;

--Highest death per population
SELECT location,population, MAX(total_deaths) as TotalDeath, ROUND(MAX((total_deaths/population)*100), 2) "Death Perpop
FROM covid_case.dbo.deaths WHERE continent IS NOT NULL
GROUP BY location,population
ORDER BY TotalDeath DESC;

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100 %

Results Messages

	location	date	total_cases	total_deaths	Infection Rate	Death Rate
1	India	2020-03-13	81	1	0	1.23
2	India	2020-03-14	84	2	0	2.38
3	India	2020-03-15	107	2	0	1.87
4	India	2020-03-16	114	2	0	1.75
5	India	2020-03-17	137	3	0	2.19
6	India	2020-03-18	151	3	0	1.99
7	India	2020-03-19	173	4	0	2.31
8	India	2020-03-20	223	4	0	1.79
9	India	2020-03-21	283	4	0	1.41
10	India	2020-03-22	360	7	0	1.94

```

--Highest infection rate
SELECT location,population,MAX(CAST(total_cases AS FLOAT)) as HighestCase,ROUND(MAX(CAST(total_cases AS FLOAT)/population)*100, 2) AS infection_rate
FROM covid_case.dbo.deaths WHERE continent IS NOT NULL
GROUP BY location,population
ORDER BY population DESC;

--Highest death per population
SELECT location,population, MAX(total_deaths) as TotalDeath, ROUND(MAX((total_deaths/population)*100), 2) "Death Perpopulation"
FROM covid_case.dbo.deaths WHERE continent IS NOT NULL
GROUP BY location,population
ORDER BY TotalDeath DESC;

--Continentwise data death data
SELECT location,population,MAX(total_deaths) "Total Death"
FROM covid_case.dbo.deaths WHERE continent IS NOT NULL

```

100 %

Results Messages

	location	population	HighestCase	infection_rate
1	China	1425887360	99318718	6.97
2	India	1417173120	45001384	3.18
3	United States	338289856	103436829	30.58
4	Indonesia	275501344	6813429	2.47
5	Pakistan	235824864	1580631	0.67
6	Nigeria	218541216	267146	0.12
7	Brazil	215313504	37721749	17.52
8	Bangladesh	171186368	2045958	1.2
9	Russia	144713312	23124717	15.98
10	Mexico	127504120	7692885	6.03

```
--Highest death per population
SELECT location,population, MAX(total_deaths) as TotalDeath, ROUND(MAX((total_deaths/population)*100), 2) "Death Perpopulation"
FROM covid_case.dbo.deaths WHERE continent IS NOT NULL
GROUP BY location,population
ORDER BY TotalDeath DESC;
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```
--Continentwise data death data
SELECT location,population,MAX(total_deaths) "Total Death"
FROM covid_case.dbo.deaths WHERE continent IS NULL
GROUP BY location,population
ORDER BY "Total Death" DESC;
```

100 %

Results Messages

	location	population	TotalDeath	Death Perpopulation
1	United States	338289856	999964	0.34
2	Azerbaijan	10358078	9999	0.1
3	Israel	9449000	9998	0.13
4	South Africa	59893884	99976	0.17
5	Belgium	11655923	9997	0.29
6	Australia	26177410	9997	0.09
7	Iran	88550568	9996	0.17
8	Bosnia and Herzegovina	3233530	9995	0.51
9	Finland	5540745	9994	0.19
10	Egypt	110990096	9994	0.02

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--Continentwise data death data
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```
SELECT location,population,MAX(total_deaths) "Total Death"
FROM covid_case.dbo.deaths WHERE continent IS NULL
GROUP BY location,population
ORDER BY "Total Death" DESC;
```

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--Exploring Countries with their total cases, total deaths, PercentOfthePopulat
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SELECT location,sum(CAST(new_cases as float)) as TotalCases, sum(CAST(new_deaths as float)) as TotalDeaths,
sum(CAST(new_cases as float))/population*100 as PercentPopulationInfected,
sum(CAST(new_deaths as float))/population*100 as PercentPopulationDead
FROM covid_case.dbo.deaths
WHERE continent is not null
GROUP BY location, population
ORDER BY PercentPopulationInfected desc
```

100 %

Results Messages

	location	population	Total Death
1	Europe	744807803	999911
2	European Union	450146793	999698
3	Upper middle income	2525921300	99931
4	Oceania	45038860	999
5	World	7975105024	998742
6	South America	436816679	998044
7	Lower middle income	3432097300	997657
8	North America	600323657	997447
9	Asia	4721383370	997147
10	Africa	1426736614	99616

```
--Exploring Countries with their total cases, total deaths, PercentOfthePopulationInfected, PercentPopulationDead
SELECT location,sum(CAST(new_cases as float)) as TotalCases, sum(CAST(new_deaths as float)) as TotalDeaths, population,
sum(CAST(new_cases as float))/population*100 as PercentPopulationInfected,
sum(CAST(new_deaths as float))/population*100 as PercentPopulationDead
FROM covid_case.dbo.deaths
WHERE continent is not null
GROUP BY location, population
ORDER BY PercentPopulationInfected desc

--Looking Countries and their Population, HighestInfectionCount, HighestDeathCount, PercentDeathRatePerPopulation,PercentPopulationInfected
SELECT SUM(new_cases) as Total_Cases, SUM(CONVERT(FLOAT, new_deaths)) as Total_Deaths,
SUM(CONVERT(FLOAT, new_deaths))/SUM(new_cases)*100 as WorldsDeathPercentage,
SUM(new_cases)/sum(population)*100 as WorldsCasesPercentage,
sum(population) as Total_Population
FROM covid_case.dbo.deaths
```

Results Messages

location	TotalCases	TotalDeaths	population	PercentPopulationInfected	PercentPopulationDead
Cyprus	660854	1364	896007	73.7554505712567	0.152230953552818
San Marino	24804	126	33690	73.6242208370436	0.3739982190561
Brunei	312892	163	449002	69.6861038480898	0.0363027336181131
Austria	6081287	22534	8939617	68.0262588430802	0.252068964475771
South Korea	34571873	35941	51815808	66.7207061597882	0.0693630021170373
Faeroe Islands	34658	28	53117	65.2484138787959	0.052713820434136
Slovenia	1346628	9467	2119843	63.5248931170846	0.446589676688321
Gibraltar	20550	113	32677	62.8882700370291	0.345808978792423
Martinique	230354	1104	367512	62.6793138727443	0.30039835433945
Andorra	48015	159	79843	60.1367684080007	0.199140813847175

```
--Looking Countries and their Population, HighestInfectionCount, HighestDeathCount, PercentDeathRatePerPopulation,PercentPopulationInfected
SELECT SUM(new_cases) as Total_Cases, SUM(CONVERT(FLOAT, new_deaths)) as Total_Deaths,
SUM(CONVERT(FLOAT, new_deaths))/SUM(new_cases)*100 as WorldsDeathPercentage,
SUM(new_cases)/sum(population)*100 as WorldsCasesPercentage,
sum(population) as Total_Population
FROM covid_case.dbo.deaths
WHERE continent is not null
ORDER BY 1,2

--Using VACCINATION table--

Select * FROM covid_case.dbo.vaccination
WHERE continent IS NOT NULL;

--Percentage vaccinated
SELECT D.location, SUM(D.population) as Population, SUM(cast(V.new_vaccinations as float)) as vaccinated,
ROUND(MAX(cast(V.people_fully_vaccinated as float))/MAX(D.population)*100, 2) "Vaccine percent"
From covid_case.dbo.deaths D
Join covid_case.dbo.vaccination V
ON D.location=V.location AND D.date=V.date
WHERE D.continent IS NOT NULL AND D.continent like '%asia%'
```

Results Messages

	Total_Cases	Total_Deaths	WorldsDeathPercentage	WorldsCasesPercentage	Total_Population
1	771901143	6973640	0.903436931430998	0.00682290487513551	11313379815876

```
--Percentage vaccinated
SELECT D.location, SUM(D.population) as Population, SUM(cast(V.new_vaccinations as float)) as vaccinated,
ROUND(MAX(cast(V.people_fully_vaccinated as float))/MAX(D.population)*100, 2) "Vaccine percent"
From covid_case.dbo.deaths D
Join covid_case.dbo.vaccination V
ON D.location=V.location AND D.date=V.date
WHERE D.continent IS NOT NULL AND D.continent like '%asia%'
Group by D.location
Order by "Vaccine percent" DESC;
```

100 %

Results Messages

	location	Population	vaccinated	Vaccine percent
1	Qatar	3792049317	5475250	105.83
2	United Arab Emirates	13283681166	20138062	103.72
3	Brunei	631745814	259735	99.49
4	Macao	552668100	918831	92.39
5	Singapore	7931289954	14727002	90.85
6	Hong Kong	9802921667	20811759	90.82
7	China	2006223515520	3407595000	89.54
8	Cambodia	23592366357	36482941	87.59
9	Vietnam	138148906392	140207439	87.55
10	Taiwan	32208297808	51180197	87.02