

COVID-19 DATA ANALYSIS PROJECT USING SQL

By Vikas Kumar Maurya

a. Datewise likewood of dying due to covid- totalcase vs totaldeath in india.

```
select date, total_cases, total_deaths  
from "CovidDeaths"  
where location like '%India%' ;
```



	date character varying	total_cases bigint	total_deaths bigint
27	29-01-2020	[null]	[null]
28	30-01-2020	1	1
29	31-01-2020	5	5
30	01-02-2020	5	5
31	02-02-2020	2	2
32	03-02-2020	3	3
33	04-02-2020	7	7
34	05-02-2020	7	7
35	06-02-2020	7	7
36	07-02-2020	7	7
37	08-02-2020	7	7
38	09-02-2020	7	7
39	10-02-2020	7	7
40	11-02-2020	7	7

Total rows: 1000 of 1222 Query complete 00:00:01.923



b.Total % of death out of entire population in india.

```
select (max(total_deaths)/avg(cast(population as integer)) )*100 as totaldeath  
from "CovidDeaths"  
where location like '%India%';
```

	totaldeath numeric
1	0.03750875545818989300

c. Verify by getting in separately.

```
select total_deaths, population from "CovidDeaths" where location like '%India%';
```

	totaldeath numeric	
1	0.03750875545818989300	

d. Country with highest death as % of population.

```
select location,(max(total_deaths)/avg(cast(population as bigint)) *100)  
as totaldeath  
from "CovidDeaths" group by location order by totaldeath desc;
```

	location character varying	totaldeath numeric
18	Tuvalu	[null]
19	Peru	0.64647478260236217800
20	Bulgaria	0.56514677552416670400
21	Bosnia and Herzegovina	0.50523731030792972400
22	Hungary	0.48921955224803015900
23	North Macedonia	0.46202580619276024200
24	Georgia	0.45558883501563007000
25	Croatia	0.45107621873077870700
26	Montenegro	0.44778832752335420200
27	Slovenia	0.43890042800339459100
28	Czechia	0.40753802890988079800
29	Slovakia	0.37507165380073022600

Total rows: 255 of 255

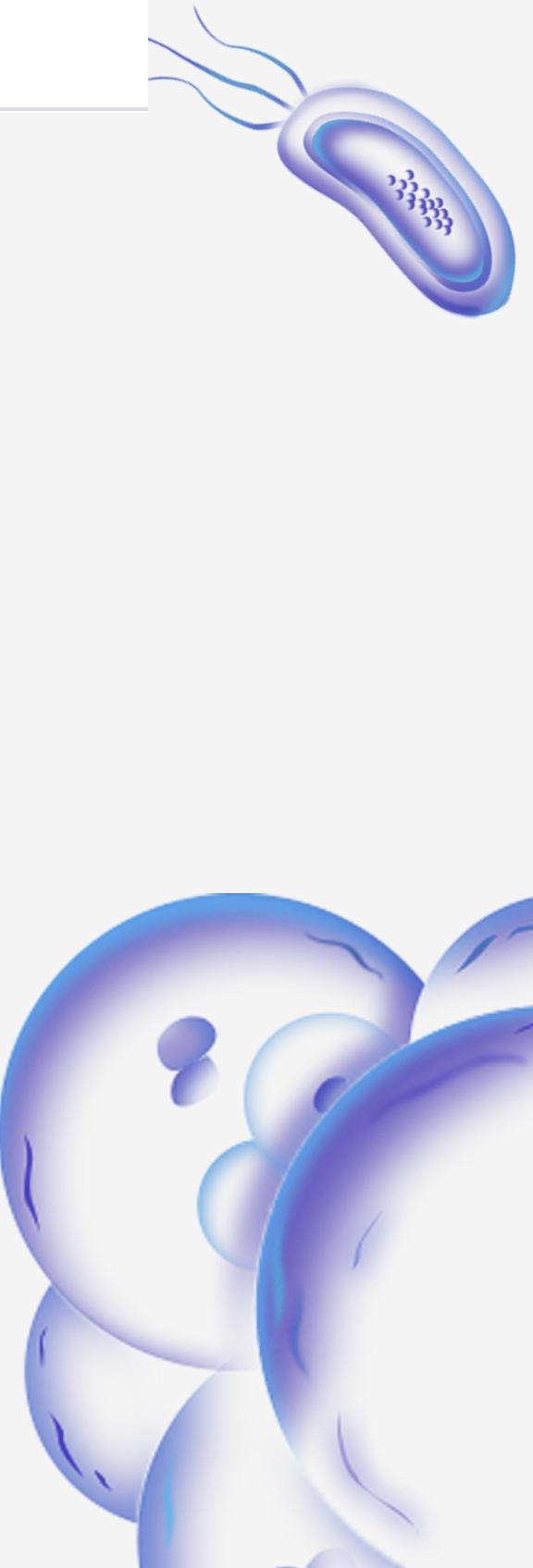
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e. Total % of covid +ve case in india.



```
select location,(max(total_cases)/avg(cast(population as bigint))*100) as positivecase  
from "CovidDeaths" where location like '%India%';
```

	location character varying	positivecase numeric
1	India	3.17201867334316925200



f. Total % of covid +ve case in World.

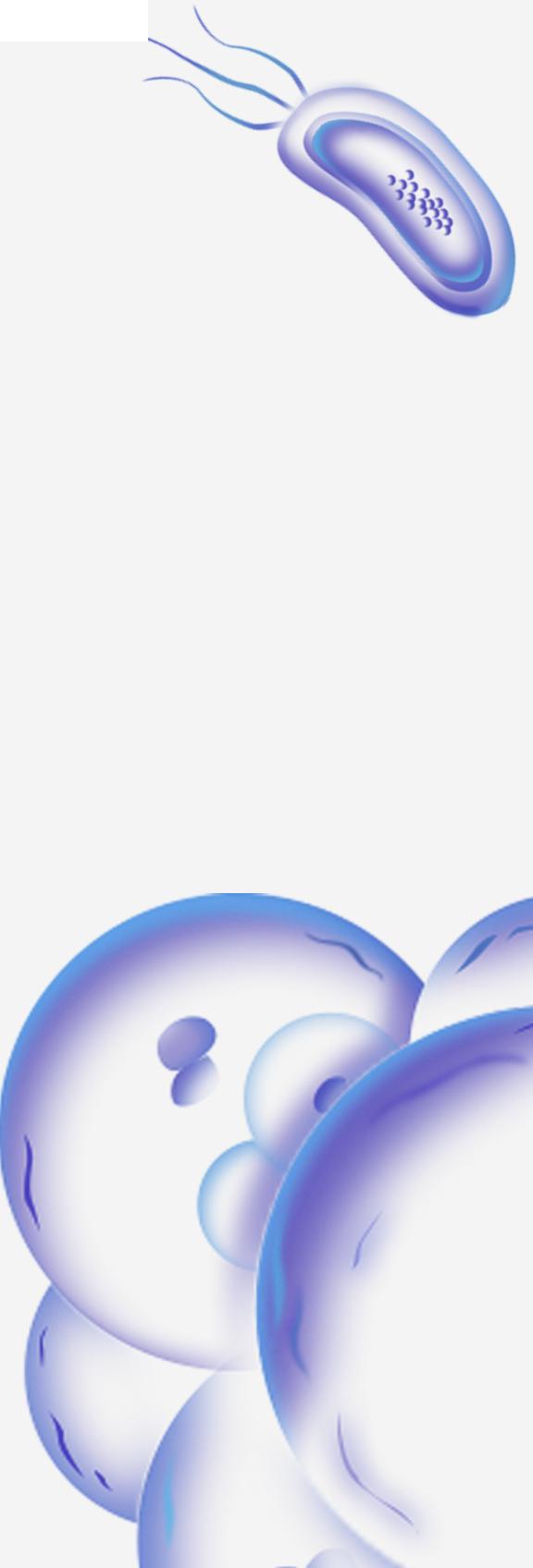


```
/* f. Total % of covid +ve case in World.*/
select location,(max(total_cases)/avg(cast(population as bigint))*100) as positivecase
from "CovidDeaths" group by location order by positivecase desc;
```

	location character varying	positivecase numeric
11	Western Sahara	[null]
12	Cyprus	73.48714909593340230600
13	San Marino	71.62956366874443455000
14	Austria	67.85202319070268894100
15	Faeroe Islands	65.24841387879586573000
16	Brunei	64.15361178792076650000
17	Slovenia	63.37662742004950366600
18	Gibraltar	62.88827003702910303900
19	Martinique	62.55578049152136528900
20	South Korea	60.16824054929337394500
21	Andorra	60.08541763210300214200
22	Jersey	59.92183833351384526500

Total rows: 255 of 255

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g. continentwise +ve case.

```
select location,max(total_cases) as total_case  
from "CovidDeaths" where continent is null group by location order by total_case desc;
```

	location character varying	total_case bigint
1	World	765222168
2	High income	420700805
3	Asia	296700314
4	Europe	249034855
5	Upper middle income	243611501
6	European Union	183867312
7	North America	123963377
8	Lower middle income	97402870
9	South America	68484239
10	Oceania	13952488
11	Africa	13081409
12	Low income	2296595



h. continentwise death.

```
/* h. continentwise death.*/
select location,max(total_deaths) as death_case
    from "CovidDeaths" where continent is null group by location order by death_case desc;
```

	location character varying	death_case integer
1	World	6921601
2	High income	2870988
3	Upper middle income	2656957
4	Europe	2056758
5	Asia	1630752
6	North America	1597946
7	South America	1352122
8	Lower middle income	1341802
9	European Union	1228666
10	Africa	258890
11	Low income	47911
12	Oceania	26193

i. Daily newscase vs hospitalization vs icu_patient in india.

```
select date, new_cases, hosp_patients, icu_patients  
from "CovidDeaths"  
where location like '%India%';
```

	date character varying	new_cases integer	hosp_patients integer	icu_patients integer
63	05-03-2020	1	[null]	[null]
64	06-03-2020	2	[null]	[null]
65	07-03-2020	3	[null]	[null]
66	08-03-2020	5	[null]	[null]
67	09-03-2020	5	[null]	[null]
68	10-03-2020	6	[null]	[null]
69	11-03-2020	10	[null]	[null]
70	12-03-2020	13	[null]	[null]
71	13-03-2020	8	[null]	[null]
72	14-03-2020	3	[null]	[null]
73	15-03-2020	23	[null]	[null]

	date character varying	new_cases integer	hosp_patients integer	icu_patients integer
109	20-04-2020	1553	[null]	[null]
110	21-04-2020	1336	[null]	[null]
111	22-04-2020	1383	[null]	[null]
112	23-04-2020	1409	[null]	[null]
113	24-04-2020	1684	[null]	[null]
114	25-04-2020	1429	[null]	[null]
115	26-04-2020	1990	[null]	[null]
116	27-04-2020	1396	[null]	[null]
117	28-04-2020	1543	[null]	[null]
118	29-04-2020	1897	[null]	[null]
119	30-04-2020	1718	[null]	[null]

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Total rows: 1000 of 1000

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j. country wise age 65>.

```
select cd.date,cd.location, cv.aged_65_older  
from "CovidDeaths" cd join "CovidVaccinations" cv  
on cd.iso_code = cv.iso_code and cd.date = cv.date;
```

	date character varying	location character varying	aged_65_older double precision
1	01-01-2020	Argentina	11.198
2	01-01-2020	Mexico	6.857
3	01-01-2021	Aruba	13.085
4	01-01-2021	Afghanistan	2.581
5	01-01-2021	Angola	2.405
6	01-01-2021	Anguilla	[null]
7	01-01-2021	Albania	13.188
8	01-01-2021	Andorra	[null]
9	01-01-2021	United Arab Emirates	1.144
10	01-01-2021	Argentina	11.198
11	01-01-2021	Armenia	11.232
12	01-01-2021	American Samoa	[null]
13	01-01-2021	Antigua and Barbuda	6.933
14	01-01-2021	Australia	15.504
15	01-01-2021	Austria	19.202

k. country wise total vaccinated persons.

```
select cd.location, max(cv.people_fully_vaccinated) as fully_vaccinated
  from "CovidDeaths" cd join "CovidVaccinations" cv
    on cd.iso_code = cv.iso_code
   where cd.continent is not null
 group by cd.location order by fully_vaccinated desc;
```

	location character varying	fully_vaccinated bigint
21	China	1276760000
22	India	951969071
23	United States	230582699
24	Brazil	176164186
25	Indonesia	172693321
26	Pakistan	140423311
27	Bangladesh	139798021
28	Japan	103380343
29	Vietnam	85908380
30	Mexico	81849962
31	Russia	79701705
32	Philippines	74049515
33	Nigeria	69793071



THANK YOU

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