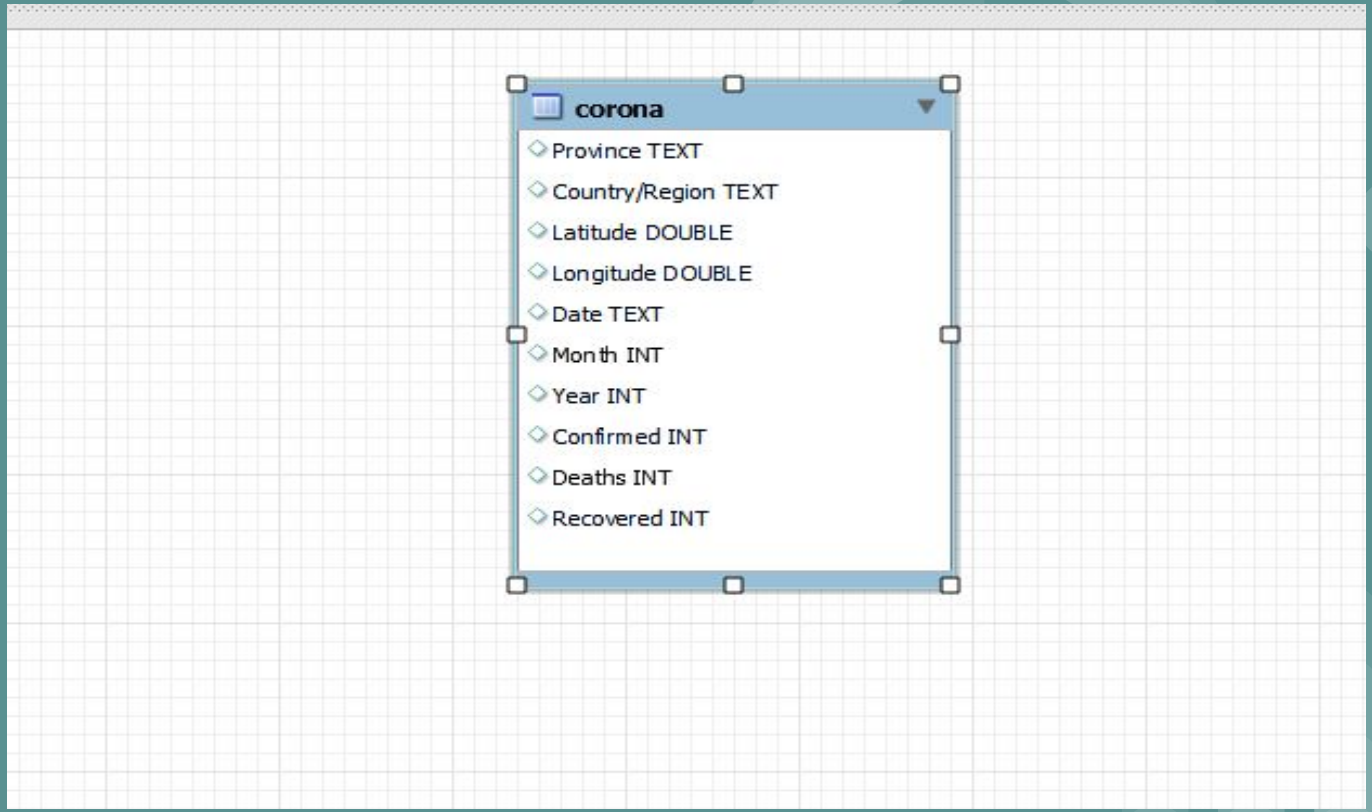
Coronavirus Analysis

Table Schema:



Q1: Write a code to check Null Values

A1: Select

sum(case when Latitude is null then 1 else 0 end) as Latitude,

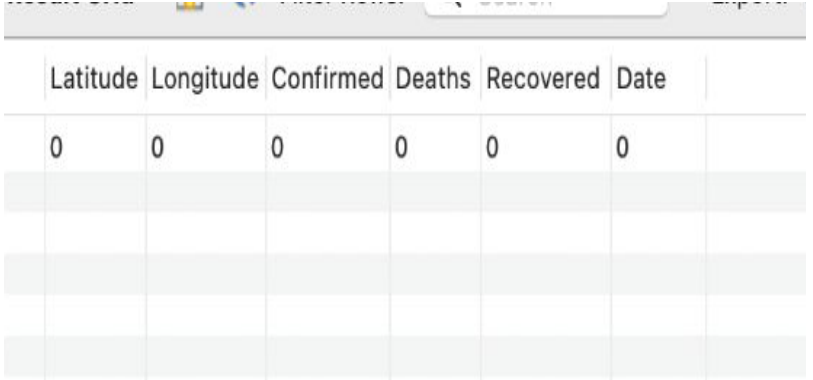
sum(case when Longitude is null then 1 else 0 end) as Longitude,

sum(case when Confirmed is null then 1 else 0 end) as Confirmed,

sum(case when Deaths is null then 1 else 0 end) as Deaths,

sum(case when Recovered is null then 1 else 0 end) as Recovered

From corona;



Latitude	Longitude	Confirmed	Deaths	Recovered	Date
0	0	0	0	0	0

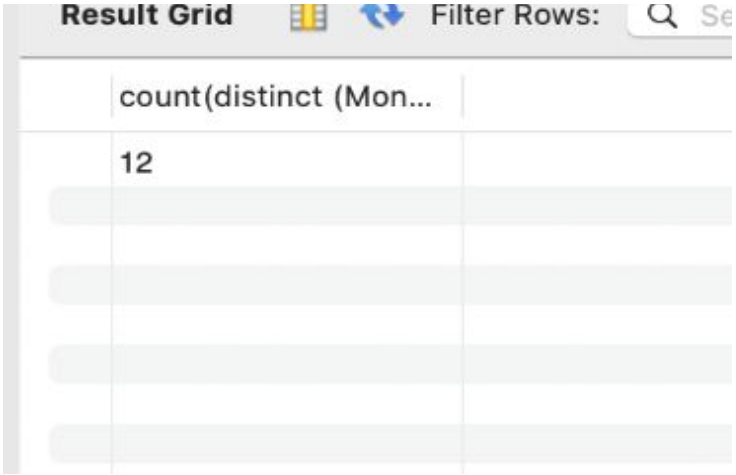
Q2: Check Total number of rows

A2: Select count(*) from corona;

count(*)
78386

Q3: No of month present in dataset

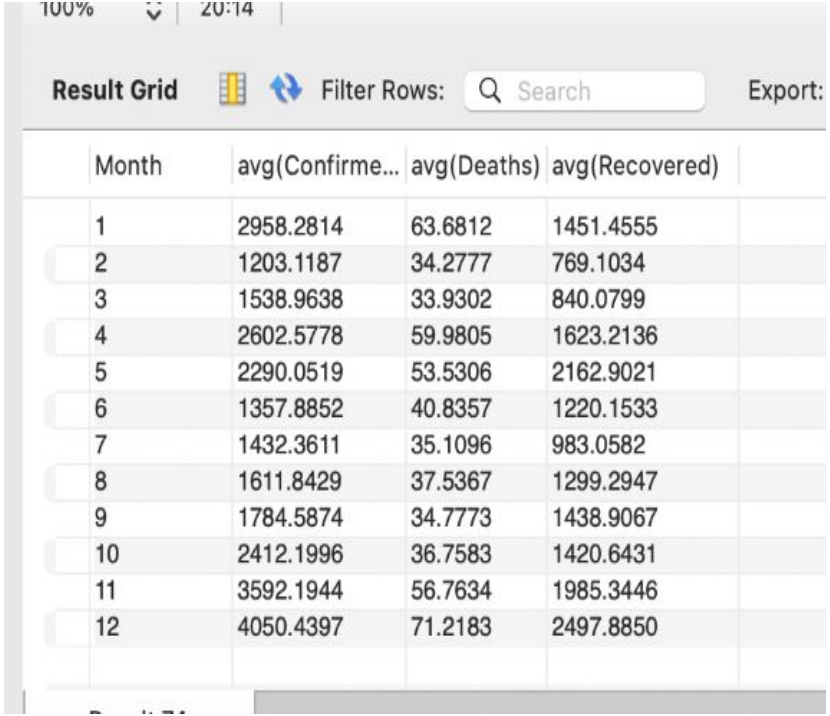
A3: Select count(distinct(Month)) from corona;



Q4: Find monthly avg for confirmed,Deaths and recovered

A4:

```
Select
distinct(Month),avg(Confirmed),avg(Deaths),avg(Recovered)
from corona
group by(Month);
```



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Result Grid | Filter Rows: Search | Export:

Month	avg(Confirme...	avg(Deaths)	avg(Recovered)
1	2958.2814	63.6812	1451.4555
2	1203.1187	34.2777	769.1034
3	1538.9638	33.9302	840.0799
4	2602.5778	59.9805	1623.2136
5	2290.0519	53.5306	2162.9021
6	1357.8852	40.8357	1220.1533
7	1432.3611	35.1096	983.0582
8	1611.8429	37.5367	1299.2947
9	1784.5874	34.7773	1438.9067
10	2412.1996	36.7583	1420.6431
11	3592.1944	56.7634	1985.3446
12	4050.4397	71.2183	2497.8850

Q5: Find min values of confirmed,deaths,recovered per year

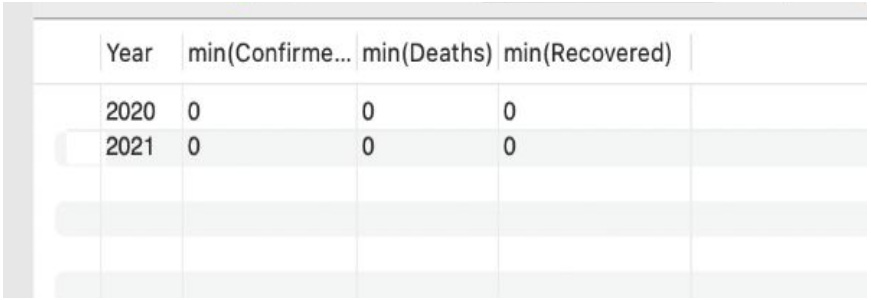
A5:

Select

distinct(Year),min(Confirmed),min(Deaths),min(Recovered)

From corona

Group by(Year);



Year	min(Confirme...	min(Deaths)	min(Recovered)
2020	0	0	0
2021	0	0	0

Q6: Find max values of confirmed,deaths,recovered per year

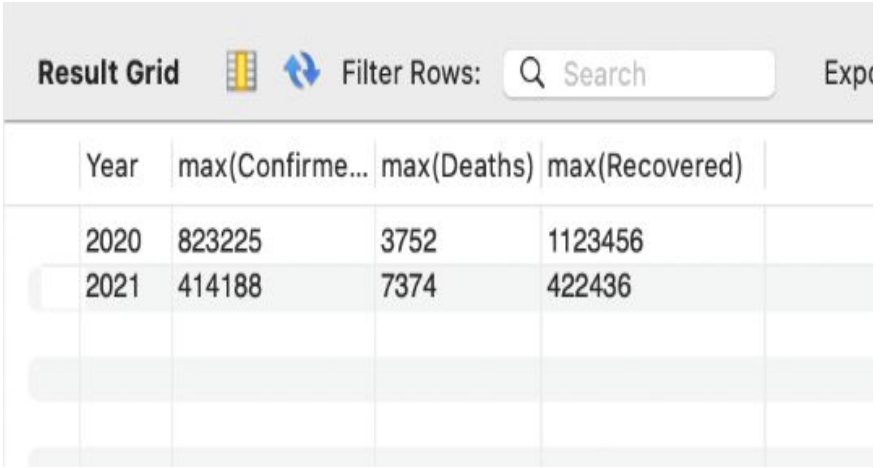
A6:

Select

distinct(Year),max(Confirmed),max(Deaths),max(Recovered)

From corona

Group by(Year);



Q7:Find the total no of case of confirmed,deaths and recovered each month

A7:

```
Select
 distinct(Month),
sum(Confirmed) as “Total confirmed cases”,
sum(Deaths) as “Total Death cases”,
sum(Recovered) as “Total Recovered cases”
from corona
group by(Month);
```

Result Grid Filter Rows: Search Export:

Month	Total Confirmed	Total Deaths	Total Recovered
1	18678589	402083	9164490
2	10560976	300890	6751190
3	14694026	323966	8021083
4	24047819	554220	14998494
5	21865416	511110	20651389
6	8991916	270414	8079855
7	6838092	167613	4693120
8	7694938	179200	6202833
9	8244794	160671	6647749
10	11515841	175484	6782150
11	16595938	262247	9172292
12	19336799	339996	11924903

Result 78

Q8: Check how coronavirus spread wrt confirmed cases(Total case,avg,Var,stddev)

A8:

```
Select sum(Confirmed) as “Total confirmed cases”,
avg(Confirmed) as “Avg Confirmed”,
variance(confirmed) as “Variance”,
stddev_pop(Confirmed) as STDDEV
From corona
Group by(Year);
```

Result Grid Filter Rows: Search Export:

Year	Total Confirmed cas...	Avg Confirmed	Variance	STDDEV
2020	80121099	1508.0199	83791088.28917561	9153.747226637603
2021	88944045	3521.6996	309154863.30891126	17582.800212392543

Q9: Check how coronavirus spread wrt death case per month (Total case,avg,Var,stddev)

A9:

Select distinct(Month),sum(Deaths) as “Total Death cases”,

avg(Deaths) as “Avg Deaths”,

variance(Deaths) as “Variance”,

stddev_pop(Deaths) as STDDEV

From corona

Group by(Month);

:

Month	Total Death cases	Avg Deaths	Variance	STDDEV
1	402083	63.6812	78999.5307609659	281.0685517110833
2	300890	34.2777	34848.64785490521	186.67792546229245
3	323966	33.9302	29781.93292256146	172.57442719754704
4	554220	59.9805	67898.57559453539	260.5735512183372
5	511110	53.5306	76767.73838185583	277.06991605343194
6	270414	40.8357	46243.20314719306	215.04232873365433
7	167613	35.1096	21140.154944373826	145.39654378414167
8	179200	37.5367	23272.99645685882	152.55489653517785
9	160671	34.7773	20102.7692237308	141.78423475030925
10	175484	36.7583	17580.07101972725	132.589860169348
11	262247	56.7634	27773.793596962234	166.6547136955995
12	339996	71.2183	65345.36920134891	255.6274030720277

Q10:Check how coronavirus spread wrt Recovered case (Total case,avg,Var,stddev)

A8:

```
Select sum(Recovered) as “Total Recovered cases”,
avg(Recovered) as “Avg Recovered”,
variance(Recovered) as “Variance”,
stddev_pop(Recovered) as STDDEV
From corona
Group by(Year);
```

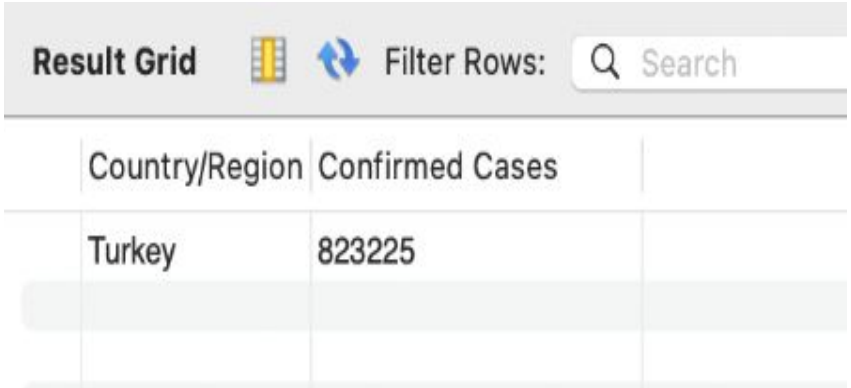
Result Grid Filter Rows: Search Export:

Year	Total Recovered cases	Avg Recovered	Variance	STDDEV
2020	50435616	949.2870	52649157.27711394	7255.973902731042
2021	62653932	2480.7544	219837538.3466914	14826.919381540165

Q11:Find Country having highest number of confirmed cases

A11:

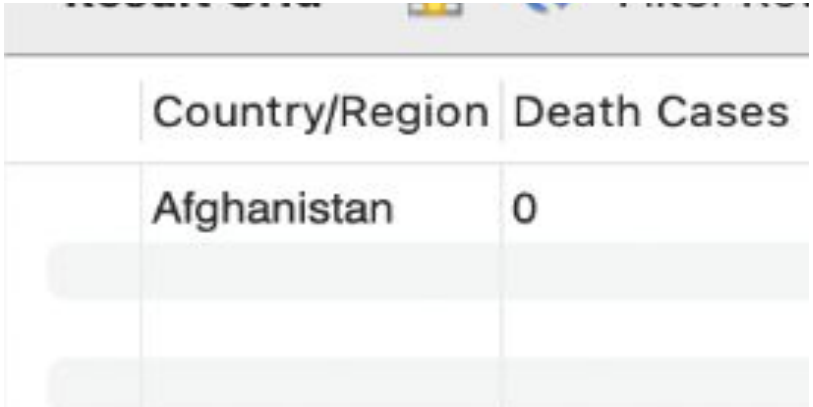
```
Select
distinct(Country/Region),
 max(Confirmed) as “Confirmed cases”
from corona
group by(Country/Region)
 order by(max(Confirmed) desc
limit 1;
```



Q12: Find country having lowest number of death cases

A12:

```
Select
Distinct (Country/Region),
min(Deaths) as “Death cases”
from corona
 group by(Country/Region)
order by(min(Deaths)) desc
 limit 1;
```

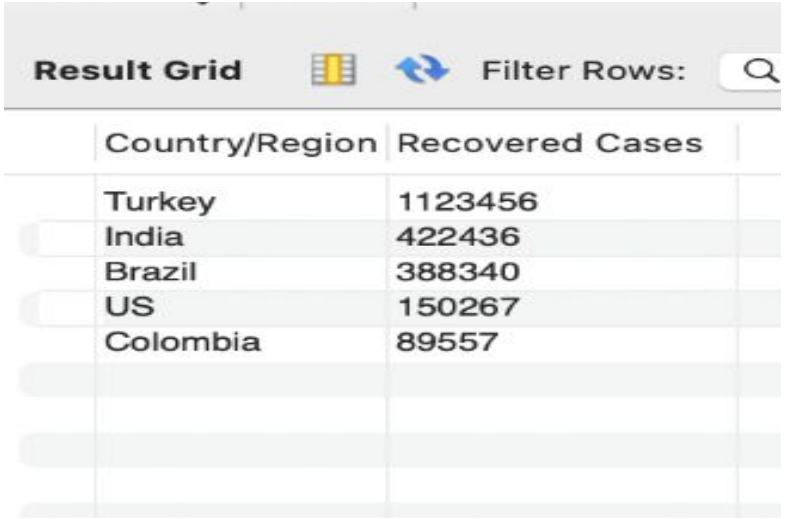


	Country/Region	Death Cases
	Afghanistan	0

Q13: Find top 5 countries having highest recovered cases

A13:

```
Select
distinct(Country/Region)
,max(Recovered) as “Recovered cases”
 from corona
 group by(Country/Region)
order by(max(Recovered cases)) desc
limit 5;
```



Result Grid Filter Rows:

Country/Region	Recovered Cases
Turkey	1123456
India	422436
Brazil	388340
US	150267
Colombia	89557