### Cy analysis with SQL

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batch no:- MIP-DA-09

profile name :- Data analysis



### carona virus Data set

Province	Country/Region	Latitude	Longitude	Date	Confirmed	Deaths	Recovered
Afghanistan	Afghanistan	33.93911	67.709953	22-01-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	23-01-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	24-01-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	25-01-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	26-01-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	27-01-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	28-01-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	29-01-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	30-01-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	31-01-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	01-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	02-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	03-02-2020	0	0	0
Afghanistan	Alghanistan	33.93911	67.709953	04-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	05-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	06-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	07-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	08-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	09-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	10-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	11-02-2020	0	0	0
Afghanistan	Alghanistan	33.93911	67.709953	12-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	13-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	14-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	15-02-2020	0	0	0
Afghanistan	Afghanistan	33.93911	67.709953	16-02-2020	0	0	0
Corona Vi	N Enhancing	22.02011	CR 3000E3	17.03.3030		-0	0

#### 1Q:- write a code to check null values?

```
SUM(CASE WHEN Province IS NULL THEN 1 ELSE 0 END) AS NullCount_Province,

SUM(CASE WHEN `Country/Region` IS NULL THEN 1 ELSE 0 END) AS NullCount_Country_Region,

SUM(CASE WHEN Latitude IS NULL THEN 1 ELSE 0 END) AS NullCount_Latitude,

SUM(CASE WHEN Longitude IS NULL THEN 1 ELSE 0 END) AS NullCount_Longitude,

SUM(CASE WHEN Date IS NULL THEN 1 ELSE 0 END) AS NullCount_Date,

SUM(CASE WHEN Confirmed IS NULL THEN 1 ELSE 0 END) AS NullCount_Confirmed,

SUM(CASE WHEN Deaths IS NULL THEN 1 ELSE 0 END) AS NullCount_Deaths,

SUM(CASE WHEN Recovered IS NULL THEN 1 ELSE 0 END) AS NullCount_Recovered

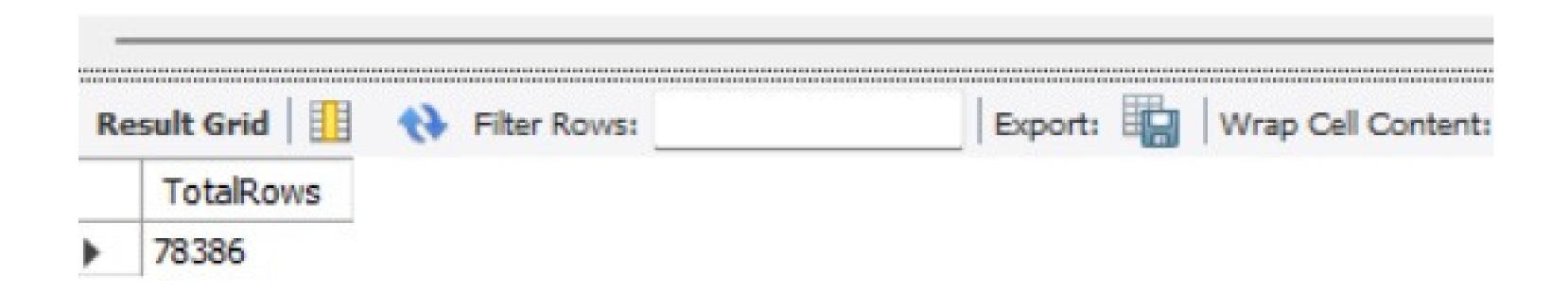
FROM

covid.corona;
```

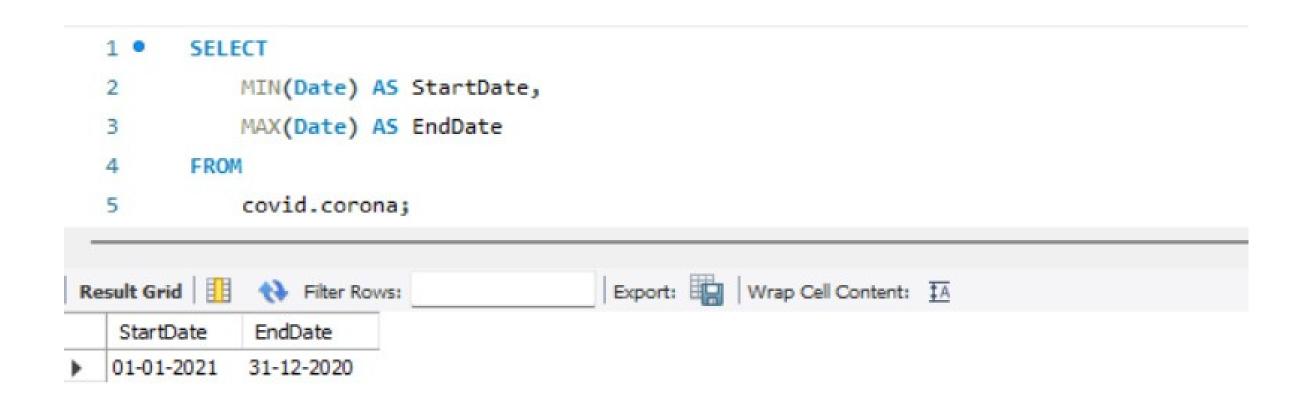
ult Grid 🔠 🙌	Filter Rows:	Export: Wrap Cell Content: IA								
NullCount_Province	NullCount_Country_Region	NullCount_Latitude	NullCount_Longitude	NullCount_Date	NullCount_Confirmed	NullCount_Deaths	Null			
)	0	0	0	0	0	0	0			

#### 2Q:- check total number of rows?

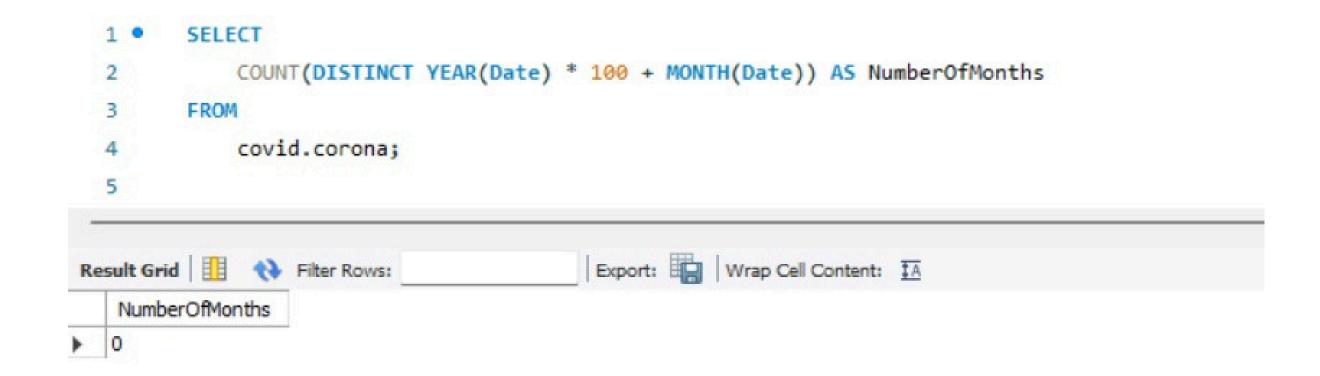
1 • SELECT
2 COUNT(\*) AS TotalRows from covid.corona



#### 3Q:- check what is start, date &end time?



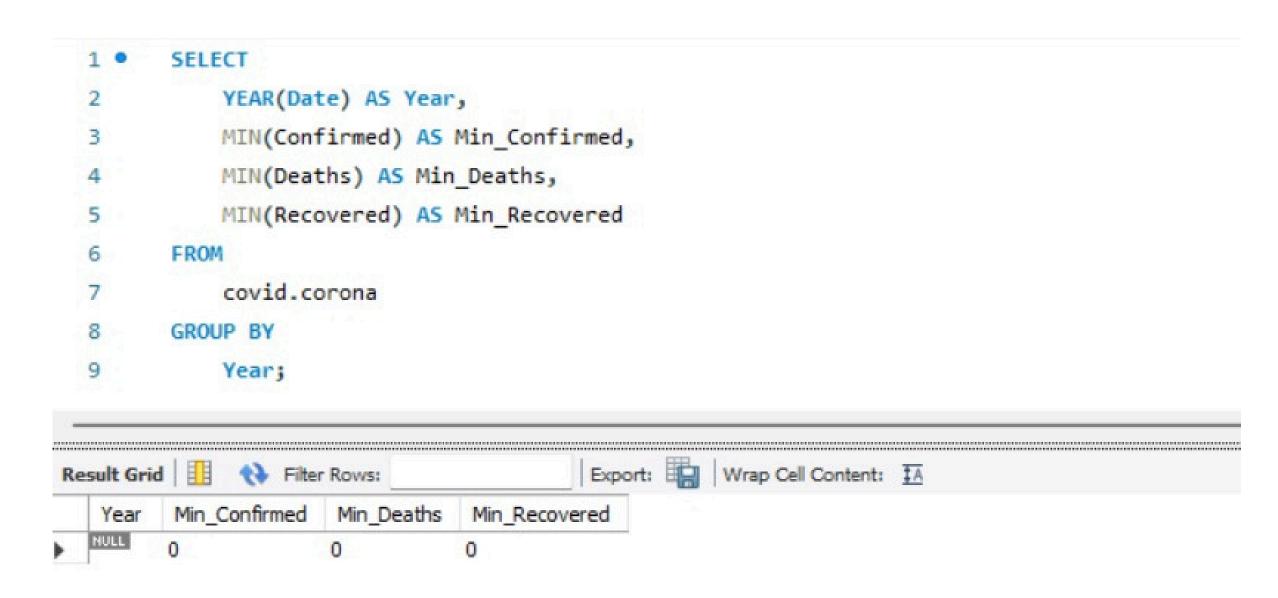
#### 4Q:- Number of month present in dataset?



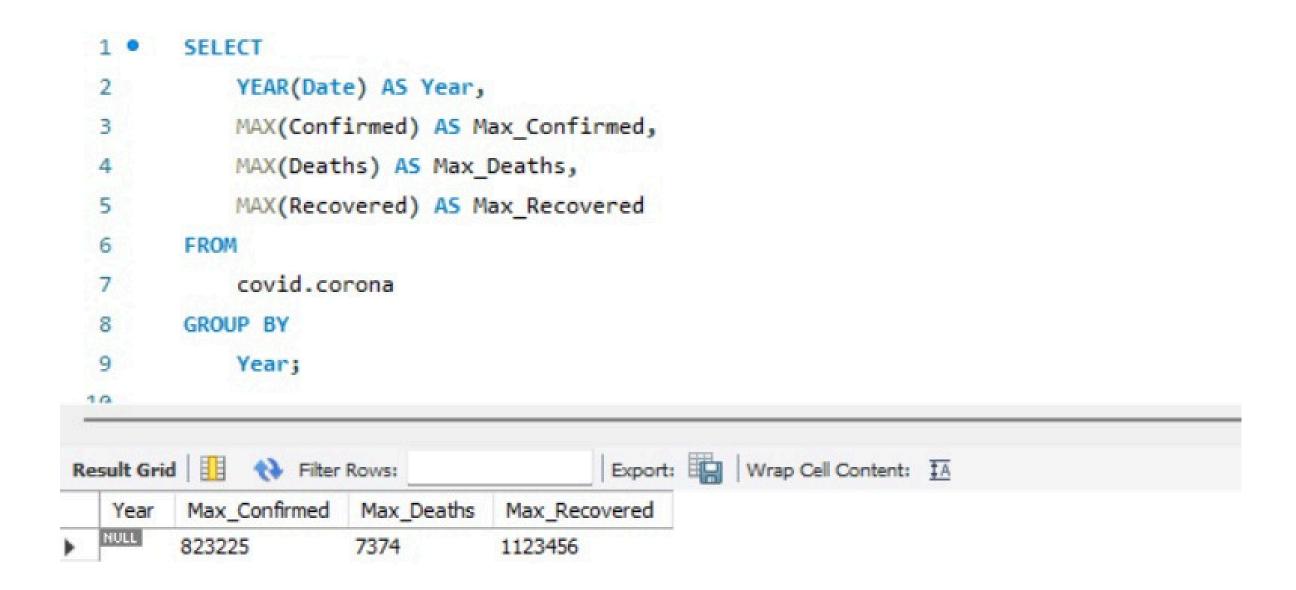
### 5Q:- find monthly average for confirmed death's, recovered?

```
1 •
        SELECT
             YEAR(Date) AS Year,
             MONTH(Date) AS Month,
             AVG(Confirmed) AS Avg Confirmed,
             AVG(Deaths) AS Avg_Deaths,
  5
             AVG(Recovered) AS Avg Recovered
        FROM
             covid.corona
         GROUP BY
 10
             Year, Month
 11
         ORDER BY
 12
             Year, Month;
Result Grid
                                          Export: Wrap Cell Content: IA
              Filter Rows:
                Avg_Confirmed
                             Avg_Deaths
                                         Avg_Recovered
               2156.8283
                             46.5376
                                         1442.7264
```

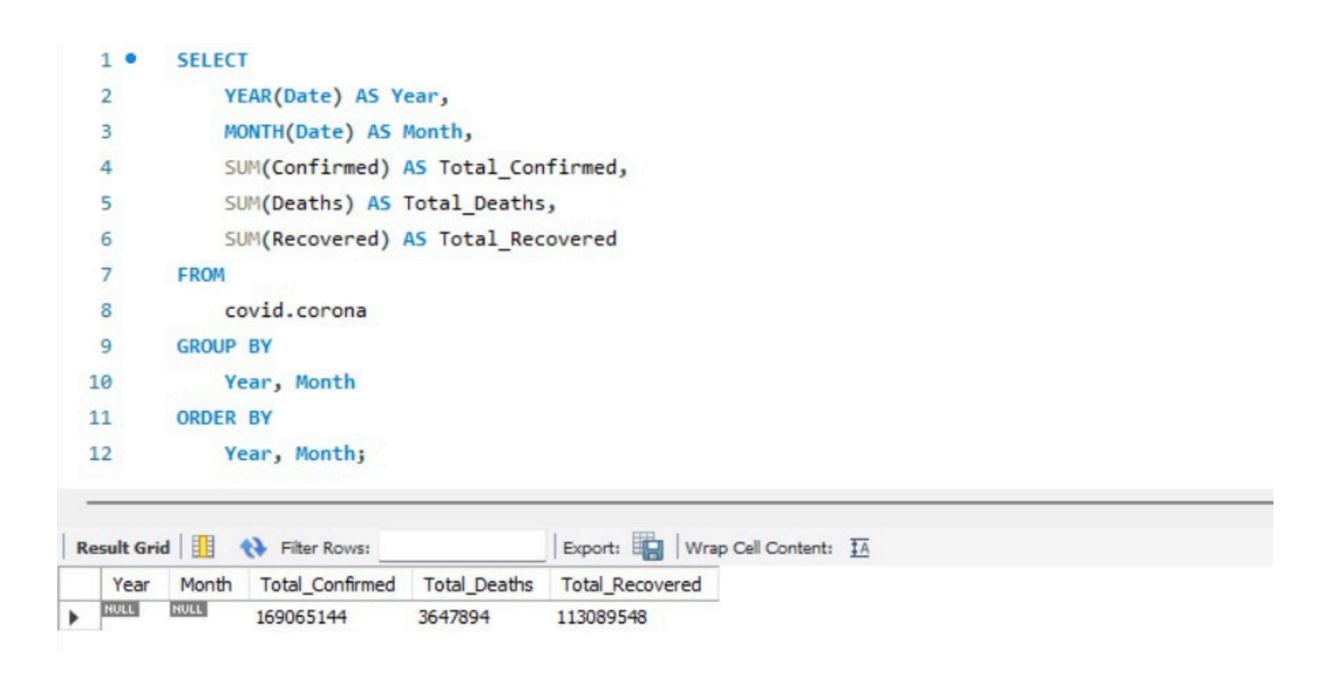
## 6Q:- find minimum values for confirmed death's, recovered per year?



# 7Q:- find maximum values of confirmed death's, recovered per year?



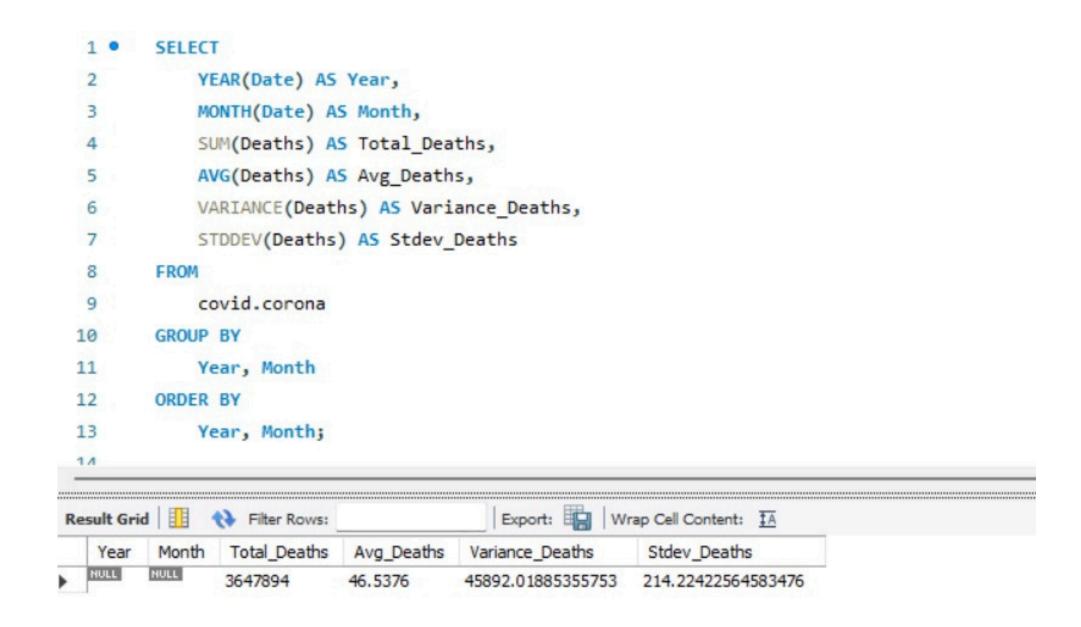
### 8Q:- The total number of cases confirmed death's, recovered each month?



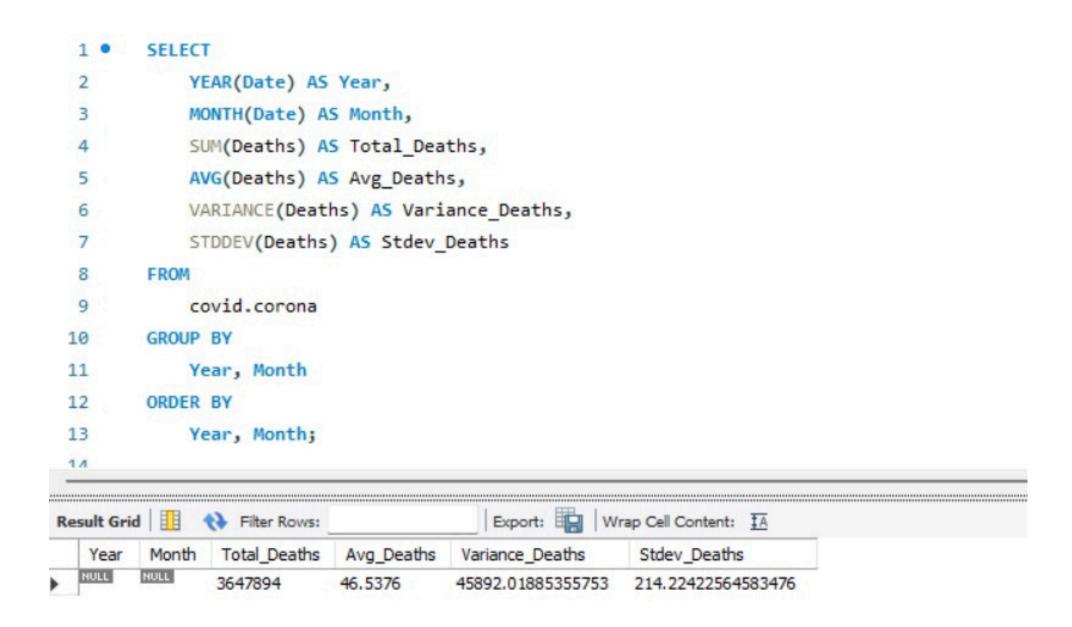
## 9Q:-check how carona virus spread out with respect to confirmed case?

```
1 •
         SELECT
             SUM(Confirmed) AS Total_Confirmed,
             AVG(Confirmed) AS Avg_Confirmed,
  3
             VARIANCE(Confirmed) AS Variance_Confirmed,
  4
             STDDEV(Confirmed) AS Stdev Confirmed
  6
         FROM.
  7
             covid.corona;
Result Grid
                                                      Wrap Cell Content: IA
               Filter Rows:
   Total_Confirmed
                  Avg_Confirmed
                                Variance Confirmed
                                                    Stdev_Confirmed
  169065144
                 2156.8283
                                157288925.07796532
                                                   12541.488152446875
```

# 10Q:- check how carona virus spread out with respect to death cases per month?



### 11Q:-check how carona virus spread out with respect to recovered case?



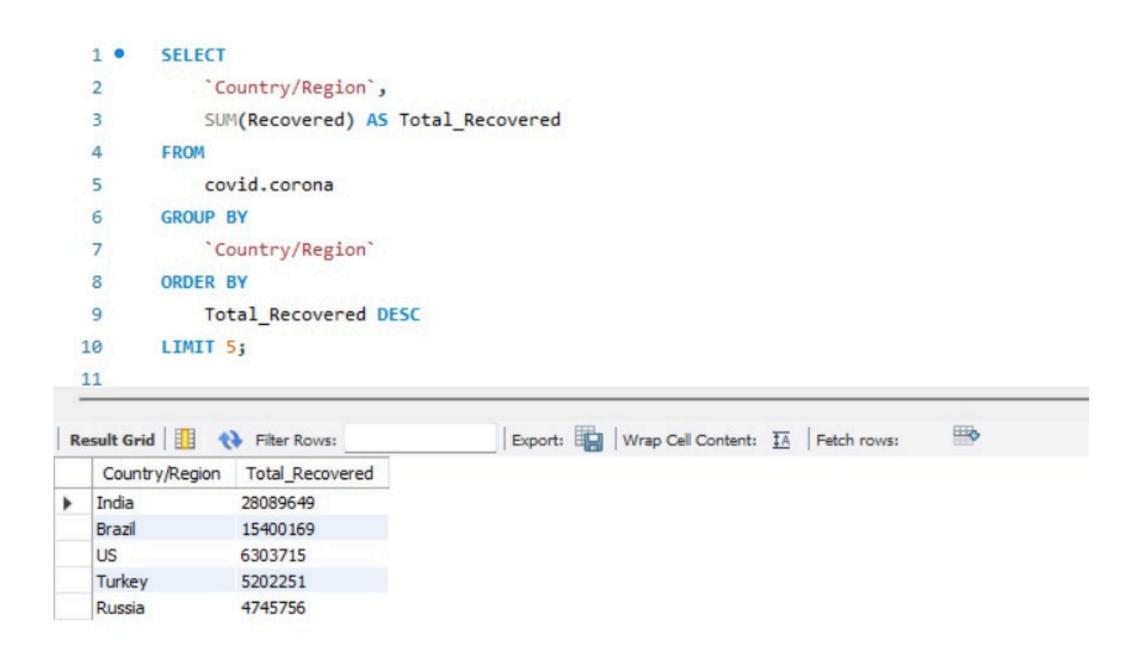
## 12Q:- check how carona virus spread out with respect to death cases per month?

```
SELECT
            `Country/Region`,
             SUM(Confirmed) AS Total_Confirmed
         FROM
             covid.corona
        GROUP BY
             `Country/Region`
  8
        ORDER BY
             Total Confirmed DESC
  9
         LIMIT 1;
 10
                                                                                        1
                                            Export: Wrap Cell Content: TA Fetch rows:
Result Grid
              Filter Rows:
   Country/Region
                Total Confirmed
  US.
                 33461982
```

## 13Q:- find country having lowest number of the confirmed cases?

```
SELECT
             `Country/Region`,
             SUM(Deaths) AS Total_Deaths
         FROM
  5
             covid.corona
         GROUP BY
             `Country/Region`
  8
         ORDER BY
             Total Deaths ASC
  9
         LIMIT 1;
 10
                                           Export: Wrap Cell Content: TA Fetch rows:
Result Grid
              Filter Rows:
   Country/Region Total Deaths
Dominica
```

#### 14Q:- find top countries having highest recovered cases



## Thank you