

Some of the Formulas used in the COVID-19 Dashboard:

*Data not shown:*

Power Query setup & changes

Dynamic Slicers & Measures, Formatting Setup

Dax measures used in COVID-19 Dashboard:

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### 3 main measures: Confirmed Cases, Deaths, Recoveries

```
Confirmed =  
var LatestDate = MAX('COVID-19 Data'[Date])  
return  
CALCULATE(SUM('COVID-19 Data'[Confirmed Cases]), 'COVID-19 Data'[Date] = LatestDate)
```

```
Total Deaths =  
var LatestDate = MAX('COVID-19 Data'[Date])  
return  
CALCULATE(SUM('COVID-19 Data'[Deaths]), 'COVID-19 Data'[Date] = LatestDate)
```

```
Recovered Globally =  
var LatestDate = MAX('COVID-19 Data'[Date])  
var USLatestDate = MAX('US Regional Recovery'[Date])  
var globConfirm =  
    CALCULATE(SUM('COVID-19 Data'[Recovered]), 'COVID-19 Data'[Date] = LatestDate)  
var USRecov =  
    CALCULATE(SUM('US Regional Recovery'[US Recovered]), 'US Regional Recovery'[Date] =  
USLatestDate)  
var GlobalRecovery =  
    globConfirm + USRecov  
return  
GlobalRecovery
```

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### Date Table:

```
Calendar = CALENDAR (  
    MIN ( 'COVID-19 Data'[Date] ),  
    MAX ( 'COVID-19 Data'[Date] )  
)
```

```
Year = Year('Calendar'[Date])
```

```
Day = DAY('Calendar'[Date])
Month = FORMAT('Calendar'[Date],"MMM")
MonthNum = MONTH('Calendar'[Date])
WeekNum = WEEKNUM('Calendar'[Date],2)
Quarter = "Q" & FORMAT(QUARTER('Calendar'[Date]),"")
```

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```
Global Deaths = [Deaths Outside of US] + [US Deaths by State]
```

```
US Deaths by State =
var LatestDate = MAX('COVID-19 Data'[Date])
return
CALCULATE(
    SUM('COVID-19 Data'[Deaths]),
    FILTER('COVID-19 Data','COVID-19 Data'[Date] = LatestDate),
    FILTER('Location Table','Location Table'[Countries/Regions] = "US"))
```

```
Deaths Outside of US =
var LatestDate = MAX('COVID-19 Data'[Date])
return
CALCULATE(
    SUM('COVID-19 Data'[Deaths]),
    FILTER('COVID-19 Data','COVID-19 Data'[Date] = LatestDate),
    FILTER('Location Table','Location Table'[Countries/Regions] <> "US"))
```

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### Joining Columns:

```
Location =
if( [Province_State] <> "", [Province_State] & ", " & [Countries/Regions],[Countries/Regions])
```

### VLookups:

```
Regions US = LOOKUPVALUE(
    'Location Table'[Countries/Regions],
    'Location Table'[LocationID],
    'COVID-19 Data'[LocationID])
```

```
Region States = LOOKUPVALUE(
    'Location Table'[Province_State],
    'Location Table'[LocationID],
    'COVID-19 Data'[LocationID])
```

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