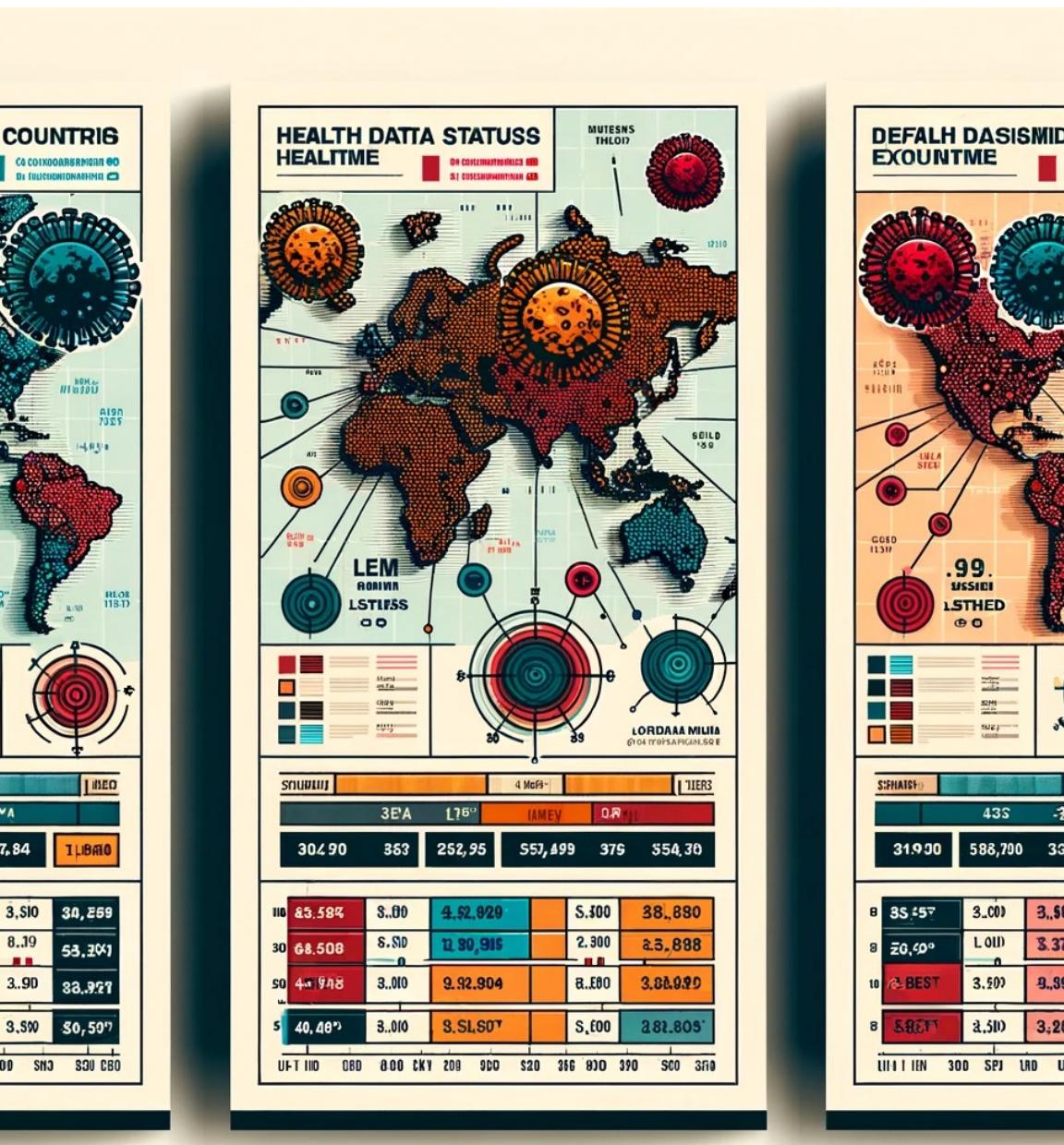


SQL Problem Statement

Mentorness Internship Program

Project 1 - Corona Virus Analysis

*Project by: Maria de Fatima Pinto
Batch - MIP-DA-07*



Content

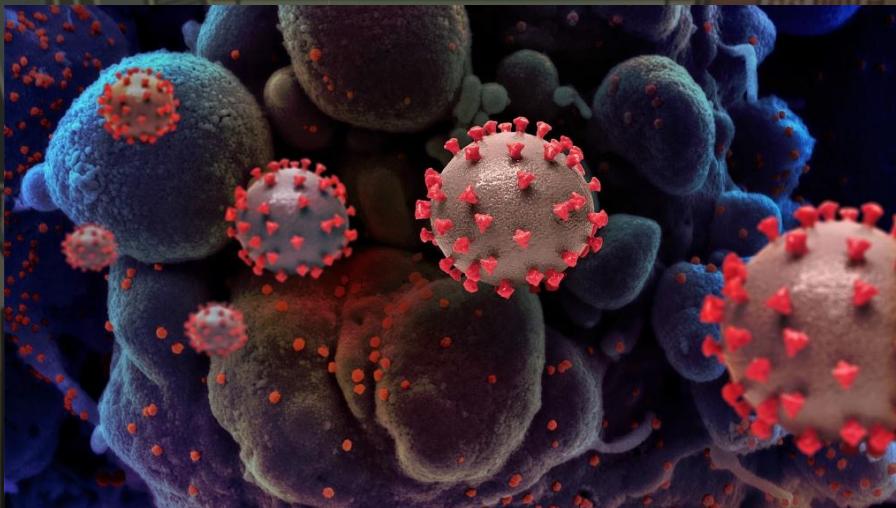
- Introduction
- Dataset Overview
- Data Analysis and Data Exploration
- Key Findings
- Conclusion



Introduction

Covid-19, caused by the SARS-CoV-2 virus, emerged in late 2019, swiftly escalating into a global pandemic. Its unparalleled transmissibility disrupted lives, economies, and health systems worldwide. Despite devastating impacts, collaborative efforts led to scientific breakthroughs, vaccines, and lessons for future preparedness, highlighting humanity's resilience amidst crisis.

As a data analyst, I scrutinized the Covid-19 dataset to uncover significant insights and convey my findings effectively.



Dataset Overview

Territorial division or administrative region within a country

Refers to a specific geographical area

Geographical coordinate that specifies the north-south position

Geographical coordinate that specifies the east-west position

Filter Enter property name or value

<input type="checkbox"/> Field name	Type	Mode
<input type="checkbox"/> Province	STRING	NULLABLE
<input type="checkbox"/> Country_Region	STRING	NULLABLE
<input type="checkbox"/> Latitude	FLOAT	NULLABLE
<input type="checkbox"/> Longitude	FLOAT	NULLABLE
<input type="checkbox"/> Date	DATE	NULLABLE
<input type="checkbox"/> Confirmed	INTEGER	NULLABLE
<input type="checkbox"/> Deaths	INTEGER	NULLABLE
<input type="checkbox"/> Recovered	INTEGER	NULLABLE

Dataset Overview

Recorded date of COVID-19 data

Number of diagnosed COVID-19 cases

Number of COVID-19 related deaths

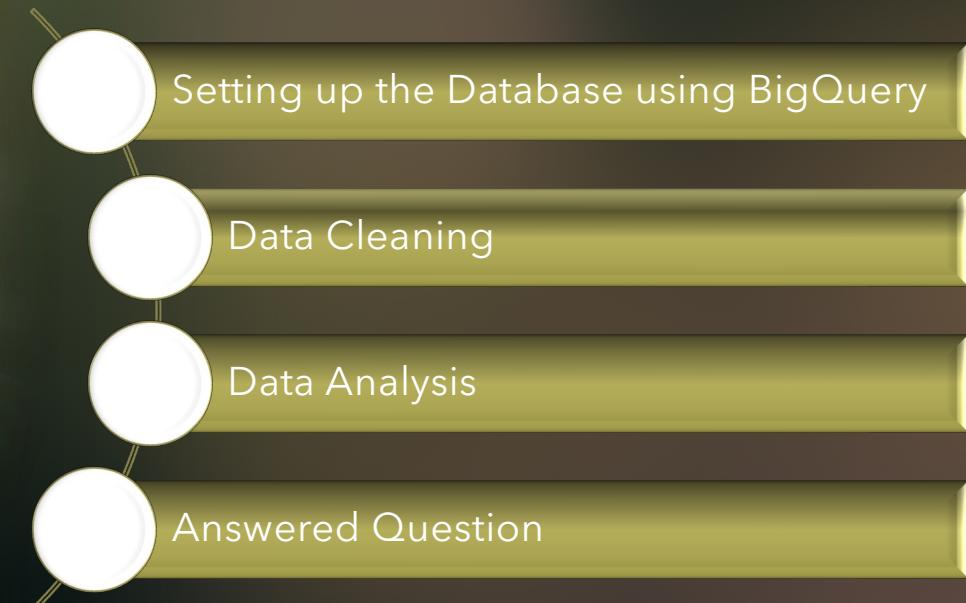
Number of recovered COVID-19 cases

Filter Enter property name or value

<input type="checkbox"/>	Field name	Type	Mode
<input type="checkbox"/>	Province	STRING	NULLABLE
<input type="checkbox"/>	Country_Region	STRING	NULLABLE
<input type="checkbox"/>	Latitude	FLOAT	NULLABLE
<input type="checkbox"/>	Longitude	FLOAT	NULLABLE
<input type="checkbox"/>	Date	DATE	NULLABLE
<input type="checkbox"/>	Confirmed	INTEGER	NULLABLE
<input type="checkbox"/>	Deaths	INTEGER	NULLABLE
<input type="checkbox"/>	Recovered	INTEGER	NULLABLE



Data Exploration and Analysis



Google Cloud Coronavirus Search (/) for resources, docs, products and more Search

Explorer + ADD coronavir...117 *Table

Type to search

Viewing resources.

SHOW STARRED ONLY

- Q/
- Q8
- Q9
- Table
- Notebooks
- Data canvases
- External connections
- Coronavirus
 - Covid

Query results

JOB INFORMATION RESULTS CHART JSON EXECUTION DETAILS EXECUTION GRAPH

Row	Province	Country_Region	Latitude	Longitude	Date	Confirmed	Deaths
1	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-03	758	24
2	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-06	582	18
3	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-07	791	30
4	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-10	684	21
5	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-11	748	21
6	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-12	656	20
7	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-14	664	20
8	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-18	658	42
9	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-20	546	21
10	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-23	324	20
11	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-24	234	21
12	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-25	460	36
13	Afghanistan	Afghanistan	33.93911	67.709953	2020-06-27	165	34
14	Afghanistan	Afghanistan	33.93911	67.709953	2020-07-01	319	28
15	Afghanistan	Afghanistan	33.93911	67.709953	2020-07-02	186	29

Results per page: 50 1 - 50 of 78386

New code management feat... Job history REFRESH

Dataset Cleaning



Checking for NULL Values

Google Cloud Coronaviru... Search (/) for resources, docs, products and more

Explorer + ADD ↻

Type to search

Viewing resources.
SHOW STARRED ONLY

coronavirus-422117

- Queries
 - Shared queries
 - Q1 AND Q2
 - Q10
 - Q11
 - Q12
 - Q13
 - Q14
 - Q15
 - Q16
 - Q3 - total number of ...

Q1 AND Q2 RUN SCHEDULE MORE SAVE QUERY

```
1 SELECT *
2 FROM `coronavirus-422117.Coronavirus.Covid`
3 WHERE Province IS NULL
4 OR Country_Region IS NULL
5 OR Latitude IS NULL
6 OR Longitude IS NULL
7 OR Confirmed IS NULL
8 OR Deaths IS NULL
9 OR Recovered IS NULL;
```

Query results

JOB INFORMATION RESULTS CHART JSON EXECUTION DETAILS

There is no data to display.

Google Cloud Coronaviru... Search (/) for resources, docs, products and more

Explorer + ADD ↻

Type to search

Viewing resources.
SHOW STARRED ONLY

coronavirus-422117

- Queries
 - Shared queries
 - Q1 AND Q2
 - Q10
 - Q11
 - Q12
 - Q13
 - Q14
 - Q15
 - Q16
 - Q3 - total number of ...

Q1 AND Q2 RUN SCHEDULE MORE SAVE QUERY DOWNLOAD

```
1 UPDATE `coronavirus-422117.Coronavirus.Covid`
2 SET
3 Country_Region = COALESCE(Country_Region, 'Unknown'), -- Default text for missing text
4 Province = COALESCE(Province, 'Unknown'), -- Default text for missing text
5 Latitude = COALESCE(Latitude, 0.0), -- Default zero for missing numeric
6 Longitude = COALESCE(Longitude, 0.0), -- Default zero for missing numeric
7 Confirmed = COALESCE(Confirmed, 0), -- Default zero for missing integer
8 Deaths = COALESCE(Deaths, 0), -- Default zero for missing integer
9 Recovered = COALESCERecovered, 0) -- Assuming the correct field name is 'Recovered'
10 WHERE
11 Province IS NULL
12 OR Country_Region IS NULL
13 OR Latitude IS NULL
14 OR Longitude IS NULL
15 OR Confirmed IS NULL
16 OR Deaths IS NULL
17 OR Recovered IS NULL;
```

Query results

JOB INFORMATION RESULTS CHART JSON EXECUTION DETAILS EXECUTION GRAPH

3 May 2024 Created - Maria Pinto 20:22

There is no data to display.



Updating NULL Values

Data Analysis

The screenshot shows the Google Cloud Data Explorer interface. The top navigation bar includes 'Google Cloud', 'Coronavirus' (selected), and a search bar. The main area displays a query titled 'Q3 - total number of Rows'. The query code is:

```
1 SELECT
2 COUNT(*) AS total_rows
3 FROM `coronavirus-422117.Coronavirus.Covid` ;
```

The 'RESULTS' tab is selected, showing a single row of data: Row 1, total_rows: 78386. Other tabs include 'JOB INFORMATION', 'CHART', 'JSON', 'EXECUTION DETAILS', and 'EXECUTION LOG'. On the left sidebar, there's a list of saved queries: Q14, Q15, Q16, Q3 - total number of ..., Q4, Q4 - start and end date, Q5 - Number of mont..., and Q6. At the bottom, it shows 'Created - Maria Pinto 20:48'.

Total number of Rows in the Covid-19 Dataset

78,386

Data Analysis



Start_Date and End_Date

The screenshot shows the Google Cloud Data Studio interface. In the top navigation bar, 'Google Cloud' and 'Coronavirus' are selected. A search bar is present, and the main area displays a query titled 'Q4 - start and end date'. The query code is:

```
1 SELECT MIN(Date) AS earliest_start_date, MAX(Date) AS latest_end_date
2 FROM `coronavirus-422117.Coronavirus.Covid`
```

The results table shows one row with the following data:

Row	earliest_start_date	latest_end_date
1	2020-01-22	2021-06-13

Below the results, tabs for 'JOB INFORMATION', 'RESULTS' (which is selected), 'CHART', 'JSON', 'EXECUTION DETAILS', and 'EXECUTION GRAPH' are visible.

Start_Date 2020-01-22

End_Date 2021-06-13

Data Analysis



Number of Months present in dataset - 18 months

The screenshot shows the Google Cloud BigQuery interface. The left sidebar is titled "Explorer" and lists several queries (Q16, Q3, Q4, Q4 - start and end date, Q5 - Number of mont..., Q6, Q7, Q8) under the "Coronavirus" dataset. The main area displays a query titled "Q5 - Number of month present in a dataset". The query code is:

```
1 SELECT COUNT(DISTINCT EXTRACT(YEAR FROM Date) || '-' || EXTRACT(MONTH FROM Date)) AS  
distinct_month_years  
2 FROM `coronavirus-422117.Coronavirus.Covid`
```

The "Query results" section shows a single row with the value 18 for the column "distinct_month_years".

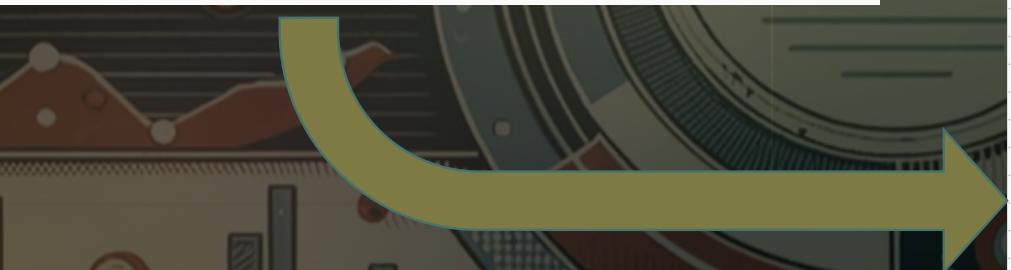
Row	distinct_month_years
1	18

Data Analysis

Q6 RUN SAVE QUERY DOWNLOAD

```
1 SELECT
2   EXTRACT(YEAR FROM Date) AS Year,
3   EXTRACT(MONTH FROM Date) AS Month,
4   AVG(Confirmed) AS AvgConfirmed,
5   AVG(Deaths) AS AvgDeaths,
6   AVGRecovered AS AvgRecovered
7 FROM `coronavirus-422117.Coronavirus.Covid`
8 GROUP BY
9   EXTRACT(YEAR FROM Date), EXTRACT(MONTH FROM Date)
10 ORDER BY
11   Year, Month;
```

Monthly Average for Confirmed, Deaths, Recovered



Query results

SAVE RES

Row	Year	Month	AvgConfirmed	AvgDeaths	AvgRecovered
1	2020	1	4.145454545454...	0.123376623376...	0.092857142857...
2	2020	2	15.29601433049...	0.593596059113...	7.032019704433...
3	2020	3	161.1302890657...	8.660661918726...	27.87390029325...
4	2020	4	505.8004329004...	41.52229437229...	171.6422077922...
5	2020	5	574.8498114788...	30.28089652283...	318.2963971512...
6	2020	6	859.2281385281...	29.81753246753...	548.7915584415...
7	2020	7	1432.361122748...	35.10955173858...	983.0582320904...
8	2020	8	1611.842899036...	37.53665689149...	1299.294721407...
9	2020	9	1784.587445887...	34.77727272727...	1438.906709956...
10	2020	10	2412.199622957...	36.75827398408...	1420.643066610...
11	2020	11	3592.194372294...	56.76341991341...	1985.344588744...
12	2020	12	4050.439673229...	71.21826560536...	2497.885002094...
13	2021	1	3911.228529534...	84.18370339338...	1919.636992040...
14	2021	2	2433.363636363...	69.16488868274...	1558.391697588...
15	2021	3	2916.797235023...	59.19983242563...	1652.285923753...
16	2021	4	4699.355194805...	78.43874458874...	3074.785064935...
17	2021	5	4005.254084625...	76.78026811897...	4007.507750314...
18	2021	6	2508.632367632...	66.26223776223...	2769.449550449...

Data Analysis



Most frequent value for confirmed , death, recovered per year

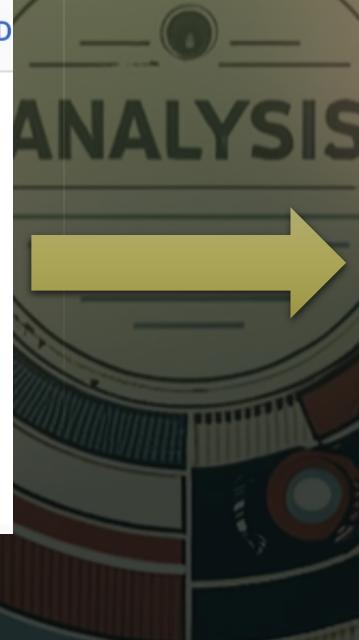
Q7

RUN

SAVE QUERY

D

```
1 SELECT
2   EXTRACT(YEAR FROM Date) AS Year,
3   EXTRACT(MONTH FROM Date) AS Month,
4   MAX(Confirmed) AS MostFrequentConfirmed,
5   MAX(Deaths) AS MostFrequentDeaths,
6   MAX(Recovered) AS MostFrequentRecovered
7   FROM `coronavirus-422117.Coronavirus.Covid`
8   GROUP BY Year, Month
9   ORDER BY Year, Month;
10
```



Query results							
JOB INFORMATION		RESULTS		CHART	JSON	EXECUTION DETAILS	EXECUTION
Row	Year	Month	MostFrequentConfirmed	MostFrequentDeaths	MostFrequentRecovered		
1	2020	1	2131	49	51		
2	2020	2	14840	242	3418		
3	2020	3	26314	1085	4289		
4	2020	4	50740	2607	33227		
5	2020	5	34907	2309	51717		
6	2020	6	54771	2003	94305		
7	2020	7	75866	1595	140050		
8	2020	8	85687	1505	95881		
9	2020	9	97894	1703	101468		
10	2020	10	99264	3351	388340		
11	2020	11	207933	2259	139292		
12	2020	12	823225	3752	1123456		
13	2021	1	300462	4475	87090		
14	2021	2	134975	3907	98389		
15	2021	3	100158	3869	102138		
16	2021	4	401993	4249	299988		
17	2021	5	414188	4529	422436		
18	2021	6	134154	7374	231456		

Data Analysis

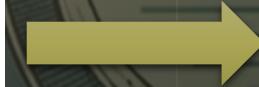


Minimum value for confirmed , death, recovered per year

Q Q8

RUN SAVE QUERY DOWNLOAD

```
1 SELECT
2   EXTRACT(YEAR FROM Date) AS Year,
3   EXTRACT(MONTH FROM Date) AS Month,
4   MIN(Confirmed) AS MinConfirmed,
5   MIN(Deaths) AS MinDeaths,
6   MINRecovered AS MinRecovered
7   FROM `coronavirus-422117.Coronavirus.Covid`
8   GROUP BY Year, Month
9   ORDER BY Year, Month;
```



Query results

JOB INFORMATION		RESULTS			CHART		JSON		EXECUTION DETAILS		EXECUTION GRAPH	
Row	Year	Month	MinConfirmed	MinDeaths	MinRecovered							
1	2020	1	0	0	0							
2	2020	2	0	0	0							
3	2020	3	0	0	0							
4	2020	4	0	0	0							
5	2020	5	0	0	0							
6	2020	6	0	0	0							
7	2020	7	0	0	0							
8	2020	8	0	0	0							
9	2020	9	0	0	0							
10	2020	10	0	0	0							
11	2020	11	0	0	0							
12	2020	12	0	0	0							
13	2021	1	0	0	0							

Data Analysis



Maximum value for confirmed , death, recovered per year

Q Q9

RUN

SAVE QUERY

DOWNLOAD

```
1 SELECT
2   EXTRACT(YEAR FROM Date) AS Year,
3   MAX(Confirmed) AS MaxConfirmed,
4   MAX(Deaths) AS MaxDeaths,
5   MAXRecovered AS MaxRecovered
6 FROM `coronavirus-422117.Coronavirus.Covid`
7 GROUP BY Year
8 ORDER BY Year
9
```

Query results

SAVE RESULTS

CHART

JOB INFORMATION

RESULTS

CHART

JSON

EXECUTION DETAILS

Row	Year	MaxConfirmed	MaxDeaths	MaxRecovered
1	2020	823225	3752	1123456
2	2021	414188	7374	422436

Data Analysis



Total number of case of confirmed , death, recovered per year

Q10

RUN SAVE QUERY DOWN

```
1 SELECT
2   EXTRACT(YEAR FROM Date) AS Year,
3   EXTRACT(MONTH FROM Date) AS Month,
4   SUM(Confirmed) AS TotalConfirmed,
5   SUM(Deaths) AS TotalDeaths,
6   SUM(Recovered) AS TotalRecovered
7 FROM `coronavirus-422117.Coronavirus.Covid`
8 GROUP BY Year, Month
9 ORDER BY Year, Month;
```

Query results

JOB INFORMATION		RESULTS		CHART	JSON	EXECUTION DETAILS		EXECUTION GRAPH	
Row	Year	Month	TotalConfirmed	TotalDeaths	TotalRecovered				
1	2020	1	6384	190	143				
2	2020	2	68312	2651	31405				
3	2020	3	769236	41346	133070				
4	2020	4	2336798	191833	792987				
5	2020	5	2744333	144561	1519547				
6	2020	6	3969634	137757	2535417				
7	2020	7	6838092	167613	4693120				
8	2020	8	7694938	179200	6202833				
9	2020	9	8244794	160671	6647749				
10	2020	10	11515841	175484	6782150				
11	2020	11	16595938	262247	9172292				
12	2020	12	19336799	339996	11924903				
13	2021	1	18672205	401893	9164347				

Data Analysis



How the virus spread out with respect to confirmed case

Q11

RUN SAVE QUERY DOWNLOAD

```
1 SELECT
2   EXTRACT(YEAR FROM Date) AS Year,
3   EXTRACT(MONTH FROM Date) AS Month,
4   SUM(Confirmed) AS Total_Confirmed,
5   AVG(Confirmed) AS Avg_Confirmed,
6   VARIANCE(Confirmed) AS Variance_Confirmed,
7   STDDEV(Confirmed) AS StdDev_Confirmed
8   FROM `coronavirus-422117.Coronavirus.Covid`
9   GROUP BY Year, Month
10  ORDER BY Year, Month;
11
```

Query results

SAVE RESULTS

Row	Year	Month	Total_Confirmed	Avg_Confirmed	Variance_Confirmed	StdDev_Confirmed
1	2020	1	6384	4.145454545454...	4836.051603756...	69.54172563114...
2	2020	2	68312	15.29601433049...	78507.02500986...	280.1910509096...
3	2020	3	769236	161.1302890657...	1026629.224588...	1013.227133760...
4	2020	4	2336798	505.8004329004...	7013581.363498...	2648.316703775...
5	2020	5	2744333	574.8498114788...	6064850.731052...	2462.691765335...
6	2020	6	3969634	859.2281385281...	13782194.72906...	3712.437841777...
7	2020	7	6838092	1432.361122748...	46923851.93199...	6850.098680456...
8	2020	8	7694938	1611.842899036...	54419982.40313...	7376.990063917...
9	2020	9	8244794	1784.587445887...	69329705.03132...	8326.446122525...
10	2020	10	11515841	2412.199622957...	69002612.88304...	8306.781138506...
11	2020	11	16595938	3592.194372294...	195858271.3768...	13994.93734808...
12	2020	12	19336799	4050.439673229...	459981798.1081...	21447.18625153...
13	2021	1	18672205	3911.228529534...	316370963.7233...	17786.81994408...

Data Analysis



How the virus spread out with respect to death case per month

Q12

RUN **SAVE QUERY** **DOWNLOAD**

```
1 SELECT
2   EXTRACT(YEAR FROM Date) AS Year,
3   EXTRACT(MONTH FROM Date) AS Month,
4   SUM(Deaths) AS Total_Deaths,
5   AVG(Deaths) AS Avg_Deaths,
6   VARIANCE(Deaths) AS Variance_Deaths,
7   STDDEV(Deaths) AS StdDev_Deaths
8 FROM `coronavirus-422117.Coronavirus.Covid`
9 GROUP BY Year, Month
10 ORDER BY Year, Month;
```

Query results

SAVE RESULTS

JOB INFORMATION		RESULTS		CHART		JSON		EXECUTION DETAILS		EXECUTION GRAPH	
Row	Year	Month	Total_Confirmed	Avg_Confirmed	Variance_Confirmed	StdDev_Confirmed					
1	2020	1	6384	4.145454545454...	4836.051603756...	69.54172563114...					
2	2020	2	68312	15.29601433049...	78507.02500986...	280.1910509096...					
3	2020	3	769236	161.1302890657...	1026629.224588...	1013.227133760...					
4	2020	4	2336798	505.8004329004...	7013581.363498...	2648.316703775...					
5	2020	5	2744333	574.8498114788...	6064850.731052...	2462.691765335...					
6	2020	6	3969634	859.2281385281...	13782194.72906...	3712.437841777...					
7	2020	7	6838092	1432.361122748...	46923851.93199...	6850.098680456...					
8	2020	8	7694938	1611.842899036...	54419982.40313...	7376.990063917...					
9	2020	9	8244794	1784.587445887...	69329705.03132...	8326.446122525...					
10	2020	10	11515841	2412.199622957...	69002612.88304...	8306.781138506...					
11	2020	11	16595938	3592.194372294...	195858271.3768...	13994.93734808...					
12	2020	12	19336799	4050.439673229...	459981798.1081...	21447.18625153...					
13	2021	1	18672205	3911.228529534...	316370963.7233...	17786.81994408...					

Data Analysis



How the virus spread out with respect to Recovered case per month

Q Q13

RUN

SAVE QUERY

DOWNLOAD

```
1 SELECT
2   EXTRACT(YEAR FROM Date) AS Year,
3   EXTRACT(MONTH FROM Date) AS Month,
4   SUM(Recovered) AS Total_Recovered,
5   AVG(Recovered) AS Avg_Recovered,
6   VARIANCE(Recovered) AS Variance_Recovered,
7   STDDEV(Recovered) AS StdDev_Recovered
8 FROM `coronavirus-422117.Coronavirus.Covid`
9 GROUP BY Year, Month
10 ORDER BY Year, Month;
```

Query results

SAVE RESULTS

EXPLORE DATA

Row	Year	Month	Total_Recovered	Avg_Recovered	Variance_Recovered	StdDev_Recovered
1	2020	1	143	0.092857142857...	2.635296574770...	1.623359656628...
2	2020	2	31405	7.032019704433...	12449.44959041...	111.5771015504...
3	2020	3	133070	27.87390029325...	40121.59398449...	200.3037542945...
4	2020	4	792987	171.6422077922...	770059.7115326...	877.5304618830...
5	2020	5	1519547	318.2963971512...	1978620.875256...	1406.634591944...
6	2020	6	2535417	548.7915584415...	6531586.256391...	2555.696824036...
7	2020	7	4693120	983.0582320904...	24849082.93983...	4984.885449017...
8	2020	8	6202833	1299.294721407...	40178838.37677...	6338.677967586...
9	2020	9	6647749	1438.906709956...	57035911.87936...	7552.212383094...
10	2020	10	6782150	1420.643066610...	73747150.16630...	8587.616093323...
11	2020	11	9172292	1985.344588744...	50738601.25469...	7123.103344378...
12	2020	12	11924903	2497.885002094...	326763170.5157...	18076.59178373...
13	2021	1	9164347	1919.636992040...	31500298.41900...	5612.512665375...

Data Analysis



Country having the highest number of Confirmed cases

Q14

RUN SAVE QUERY DOWNLOAD

```
1 SELECT Country_Region AS `Country Region`,
2 | SUM(Confirmed) AS Total_Confirmed
3 FROM `coronavirus-422117.Coronavirus.Covid`
4 GROUP BY Country_Region
5 ORDER BY Total_Confirmed DESC
6 LIMIT 1;
```

Query results

JOB INFORMATION RESULTS CHART JSON

Row	Country Region	Total_Confirmed
1	US	33461982

Data Analysis



Country having the lowest number of Confirmed cases

Q15

▶ RUN 💾 SAVE QUERY ⬇ DOWNLOAD

```
1 SELECT Country_Region AS `Country Region`,
2 | SUM(Deaths) AS Total_Deaths
3 FROM `coronavirus-422117.Coronavirus.Covid`
4 GROUP BY Country_Region-- Aggregate by each region
5 ORDER BY Total_Deaths ASC
6 LIMIT 1; -- Returns only the top record
```



Query results

JOB INFORMATION RESULTS CHART JSON

Row	Country Region	Total_Deaths
1	Dominica	0

Data Analysis



Top 5 countries having the highest Recovered case

Q16

RUN SAVE QUERY DOWNLOAD SHARE SCHEDULE MORE Query completed.

```
1 SELECT Country_Region AS `Country Region`,  
2 | SUM(Recovered) AS Total_Recovered  
3 FROM `coronavirus-422117.Coronavirus.Covid`  
4 GROUP BY Country_Region-- Aggregate by each region  
5 ORDER BY Total_Recovered DESC  
6 LIMIT 5; -- Returns only the top 5 record
```

Press Option+F1 for accessibility options

Query results

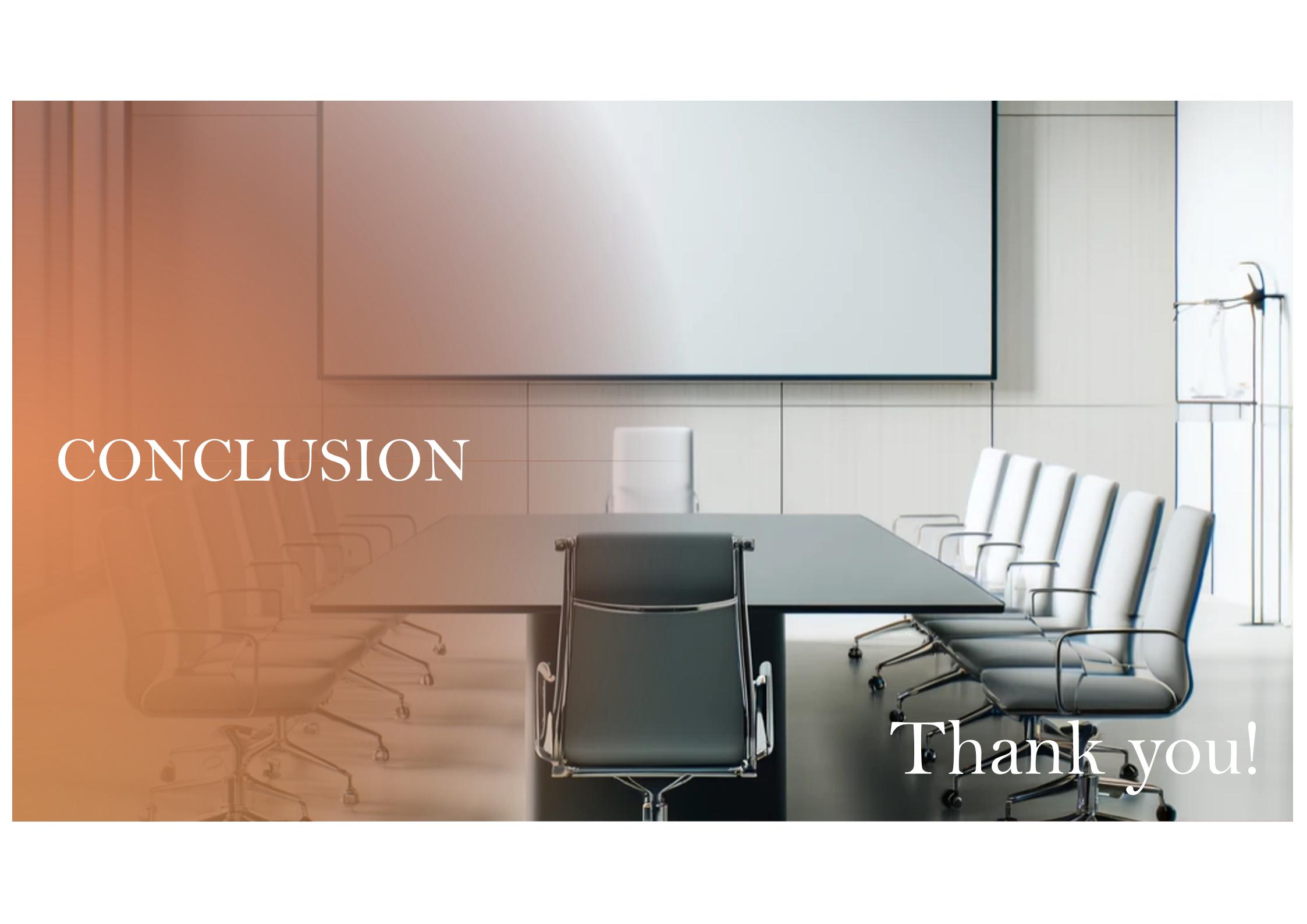
SAVE RESULTS EXPLORE DATA

JOB INFORMATION	RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	Country Region	Total_Recovered			
1	India	28089649			
2	Brazil	15400169			
3	US	6303715			
4	Turkey	5202251			
5	Russia	4745756			

KEY FINDINGS

- Statistical Analysis
- Temporal Distribution
- Trend Analysis
- Temporal Granularity
- Geographical Detail

2000	30	7	5	401 210.17
2005	50	43	S	70 141.71
2008	10	22	11	143 343.22
2010	40	72	(77	013 987.26
2012	40	42	001	491 333.17
2014	57	57	191	6711 386.18
2016	48198	48198	2ED18	14278
Che	12	00.95	401	di ae 50.06
FDMR	80	00.00	001	2E H 27.86
FE9	30	8.52	311	8.07 13.30
Ind	130	36.92	509	3.26 0.84
ITMS	69	10.40	2841	f8 29 180.01
ITMS	69	00450	10.25	3220 44.28
FERTS	65	FNG	" 00	130.03 100.80 P7.23
VG08	80	FHS	" 00	320.00 782.91 6.7815
ITMS	86	ITMS	" 00	# 3008 157.00 490.85
		ITAG	" 00	7026 055.00 550.27
		ITAO	" 00	245F0 9.28 20 ~2.00
		ITen	" 00	0027 \$10.00 116.80
		IT2W	" 00	170.00 4.00 00 905.00
		IT28	" 00	824.40 320.00 10.00
		IT29	" 00	2.89008 453.90
		IT30	" 00	124.00 4980.46



CONCLUSION

Thank you!