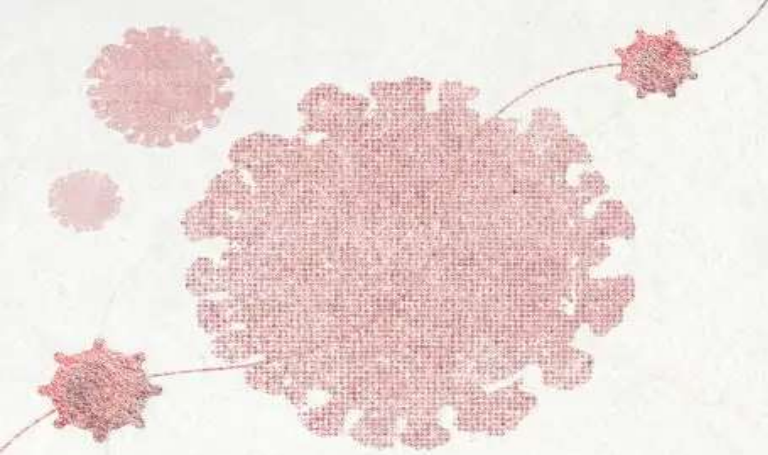


# COVID-19 Analysis



## 1-Find the number of Corona patients who faced shortness of breath.

```
1 • SELECT COUNT(*) AS Number_of_Corona_Patients_With_Shortness_Of_Breath
2 FROM covid_data
3 WHERE Corona = 'Positive'
4 and Shortness_of_breath = 'True'
```

	Number_of_Corona_Patients_With_Shortness_Of
▶	1164

## 2-Find the number of negative corona patients who have a fever and sore throat.

```
1 • select count(*) as negative_patient_having_fever_and_sore_thorathat
2   from covid_data
3  where Corona = 'Negative'
4     and Fever = 'True'
5     and Sore_throat='True'
6
```

	negative_patient_having_fever_and_sore_thorathat
▶	121

### 3-Group the data by month and rank the number of positive cases..

```
1 • SELECT
2     MONTHNAME(Test_date) AS Month,
3     COUNT(*) AS PositiveCases,
4     RANK() OVER (ORDER BY COUNT(*) DESC) AS Ranking
5 FROM covid_data
6 WHERE Corona = 'Positive'
7 GROUP BY Month;
8
```

	Month	PositiveCases	Ranking
▶	April	8881	1
	March	5848	2

#### 4-Find the female negative corona patients who faced cough and headache

```
1 • select count(*) as Female_Negative_Corona_Patients_With_Cough_And_Headache
2   from covid_data
3   where corona = "Negative"
4   and Sex = 'Female'
5   and Cough_symptoms = "True"
6   and Headache = "True"
```

	Female_Negative_Corona_Patients_With_Cough_
▶	32



## 5-How many elderly corona patients have faced breathing problems?

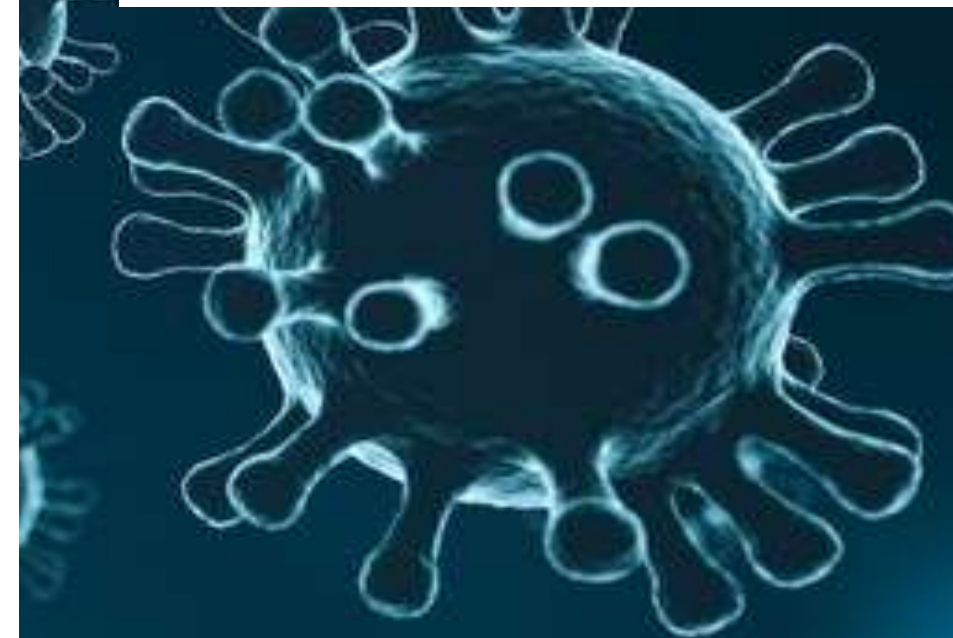
```
1 • SELECT COUNT(*) AS Elderly_Patients_With_Breathing_Problems
2   FROM covid_data
3   WHERE Corona = 'Positive'
4   AND Age_60_above = 'Yes'
5   AND Shortness_of_breath = 'true';
6
```

	Elderly_Patients_With_Breathing_Problems
▶	263

## -Which three symptoms were more common among COVID-19-positive patients?

```
SELECT 'Fever' AS Symptom,  
SUM(CASE WHEN Fever = 'true' THEN 1 ELSE 0 END) AS Symptom_Count  
FROM covid_data  
WHERE `Corona` = 'Positive'  
UNION ALL  
SELECT 'Cough' AS Symptom,  
SUM(CASE WHEN Cough_symptoms = 'true' THEN 1 ELSE 0 END) AS Symptom_Count  
FROM covid_data  
WHERE `Corona` = 'Positive'  
UNION ALL  
SELECT 'Sore throat' AS Symptom,  
SUM(CASE WHEN Sore_throat = 'true' THEN 1 ELSE 0 END) AS Symptom_Count  
FROM covid_data  
WHERE `Corona` = 'Positive'  
UNION ALL  
SELECT 'Shortness of breath' AS Symptom,  
SUM(CASE WHEN Shortness_of_breath = 'true' THEN 1 ELSE 0 END) AS Symptom_Count  
FROM covid_data  
WHERE `Corona` = 'Positive'  
UNION ALL  
SELECT 'Headache' AS Symptom,  
SUM(CASE WHEN Headache = 'true' THEN 1 ELSE 0 END) AS Symptom_Count  
FROM covid_data  
WHERE `Corona` = 'Positive'  
ORDER BY Symptom_Count DESC  
LIMIT 3;
```

	Symptom	Symptom_Count
▶	Cough	6584
	Fever	5559
	Headache	2235



## 7-Which symptom was less common among COVID negative people?

```
1 • SELECT 'Fever' AS Symptom,
2     SUM(CASE WHEN Fever = 'true' THEN 1 ELSE 0 END) AS Symptom_Count
3     FROM covid_data
4     WHERE `Corona` = 'Negative'
5     UNION ALL
6     SELECT 'Cough' AS Symptom,
7     SUM(CASE WHEN Cough_symptoms = 'true' THEN 1 ELSE 0 END) AS Symptom_Count
8     FROM covid_data
9     WHERE `Corona` = 'Negative'
10    UNION ALL
11    SELECT 'Sore throat' AS Symptom,
12    SUM(CASE WHEN Sore_throat = 'true' THEN 1 ELSE 0 END) AS Symptom_Count
13    FROM covid_data
14    WHERE `Corona` = 'Negative'
15    UNION ALL
16    SELECT 'Shortness of breath' AS Symptom,
17    SUM(CASE WHEN Shortness_of_breath = 'true' THEN 1 ELSE 0 END) AS Symptom_Count
18    FROM covid_data
19    WHERE `Corona` = 'Negative'
20    UNION ALL
21    SELECT 'Headache' AS Symptom,
22    SUM(CASE WHEN Headache = 'true' THEN 1 ELSE 0 END) AS Symptom_Count
23    FROM covid_data
24    WHERE `Corona` = 'Negative'
25    ORDER BY Symptom_Count
26    LIMIT 1
27
```

	Symptom	Symptom_Count
▶	Headache	148





## 8-What are the most common symptoms among COVID-19-positive males whose known contact was abroad?

```
1 SELECT 'Fever' AS Symptom,
2 SUM(CASE WHEN Fever = 'true' THEN 1 ELSE 0 END) AS Symptom_Count
3 FROM covid_data
4 WHERE `Corona` = 'Positive' AND `Sex` = 'male' AND `Known_contact` = 'Abroad'
5 UNION ALL
6 SELECT 'Cough' AS Symptom,
7 SUM(CASE WHEN Cough_symptoms = 'true' THEN 1 ELSE 0 END) AS Symptom_Count
8 FROM covid_data
9 WHERE `Corona` = 'Positive' AND `Sex` = 'male' AND `Known_contact` = 'Abroad'
10 UNION ALL
11 SELECT
12 'Sore throat' AS Symptom,
13 SUM(CASE WHEN Sore_throat = 'true' THEN 1 ELSE 0 END) AS Symptom_Count
14 FROM covid_data
15 WHERE `Corona` = 'Positive' AND `Sex` = 'male' AND `Known_contact` = 'Abroad'
16 UNION ALL
17 SELECT
18 'Shortness of breath' AS Symptom,
19 SUM(CASE WHEN Shortness_of_breath = 'true' THEN 1 ELSE 0 END) AS Symptom_Count
20 FROM covid_data
21 WHERE `Corona` = 'Positive' AND `Sex` = 'male' AND `Known_contact` = 'Abroad'
22 UNION ALL
23 SELECT
24 'Headache' AS Symptom,
25 SUM(CASE WHEN Headache = 'true' THEN 1 ELSE 0 END) AS Symptom_Count
26 FROM covid_data
27 WHERE `Corona` = 'Positive' AND `Sex` = 'male' AND `Known_contact` = 'Abroad'
28 ORDER BY Symptom_Count DESC
29 LIMIT 1
```

	Symptom	Symptom_Count
►	Cough	532

