Question :- 1) who to get full data of covid ?  
Answer :- select \* from covid\_19;  
Insight :-  
To get full COVID-19 data and create insights, start by running the SQL query SELECT \* FROM covid\_19; to retrieve all the data from the database. Next, understand the data by examining its columns, such as date, location, cases, deaths, and recoveries. Analyze this data by calculating key statistics like the total number of cases and deaths, and the recovery rate. Observe trends over time to see how these numbers change, and compare data across different regions to identify which areas are most and least affected. Finally, create visualizations such as line graphs to show trends over time and bar charts to compare regions. This approach provides a comprehensive understanding of the COVID-19 situation through data analysis and visual representation.

Question :- 2) with the help of this query we can see all the data of the covid\_19 table  
answer :- select country , max(cases)as max\_case from covid\_19 group by country limit 1;  
insights :- Using the query SELECT country, MAX(cases) AS max\_case FROM covid\_19 GROUP BY country LIMIT 1;, you can identify the country with the highest reported peak in COVID-19 cases. This helps highlight the most severely impacted country in the dataset. Such insights are crucial for understanding pandemic severity and guiding comparative analysis, resource allocation, and response strategies.

Question :- 3) Find the total number of cases per country ?   
answer :- select country, sum(cases) from covid\_19 group by country;   
insights :- Using the query SELECT country, SUM(cases) FROM covid\_19 GROUP BY country;, you can determine the total number of COVID-19 cases for each country. This insight helps identify which countries had the highest overall case counts, providing a clear picture of the pandemic's spread and impact globally. This information is essential for assessing the overall burden of the disease in different regions and planning public health responses accordingly.

Question :- 4) List countries with more than 1000 recovered cases?  
answer :- select country ,cases from covid\_19 where recovered > 1000;  
insights :- The query SELECT country, cases FROM covid\_19 WHERE recovered > 1000; retrieves the number of cases for countries where more than 1,000 people have recovered from COVID-19. This insight highlights countries with significant recovery numbers, indicating their healthcare system's ability to manage and treat the disease effectively. It also suggests regions where the pandemic might be under better control compared to others.

Questions :- 5) list the countries with lowest cov\_id cases ?  
answers :- select min(cases) as lowest\_cases,continent from covid\_19 group by continent order by 1 limit 2;  
insights :- The query `SELECT MIN(cases) AS lowest\_cases, continent FROM covid\_19 GROUP BY continent ORDER BY 1 LIMIT 2;` identifies the two continents with the lowest reported COVID-19 cases. This insight helps highlight the regions that experienced the least impact from the pandemic, potentially due to effective containment measures, lower population density, or other mitigating factors. Understanding these factors can provide valuable lessons for managing future outbreaks.

Question :- 6) List countries with missing data for tests:  
answer :- select country , tests from covid\_19 where tests is null;  
Insights :- The query `SELECT country, tests FROM covid\_19 WHERE tests IS NULL;` retrieves the countries that have not reported their COVID-19 testing data. This insight is critical as it highlights gaps in data reporting, which can affect the accuracy of understanding and responding to the pandemic. Identifying these countries emphasizes the need for improved data collection and transparency in public health reporting.

Question :- 7 Find the total population of all countries combined  
answer :- select sum(population) as total\_population from covid\_19 ;  
Insights :- The total population across all the regions in the provided COVID-19 dataset is approximately 7.94 billion. This number represents the cumulative population data from various countries or regions included in your dataset.

Question :- 8 find the total population of all the continent  
answer :- select sum(population) as total\_population,continent as total\_population from covid\_19 group by continent;  
insights :- The query SELECT SUM(population) AS total\_population, continent FROM covid\_19 GROUP BY continent; calculates the total population for each continent based on the COVID-19 data. This insight helps understand the population distribution across continents, which is crucial for assessing the potential impact of the pandemic, planning vaccination campaigns, and allocating healthcare resources proportionately to population sizes.

Question :- 9 find the cases , recoverey ,deaths and tests of each country  
answer :- select country,tests , deaths, recovered, cases from covid\_19 ;  
insights :- The query `SELECT country, tests, deaths, recovered, cases FROM covid\_19;` provides a comprehensive view of key COVID-19 metrics for each country, including the number of tests conducted, deaths, recoveries, and total cases. This data is essential for analyzing the pandemic's impact on different countries, assessing testing efficiency, death rates, recovery rates, and overall case burden. Such insights are critical for guiding public health strategies and resource allocation.

Question :- 10 find max recoverey of continent and provide the countrys name too.  
answer :- select continent , country , max(recovered) as max\_recovered from covid\_19 group by continent , country order by 3 desc;  
insights :- The query `SELECT continent, country, MAX(recovered) AS max\_recovered FROM covid\_19 GROUP BY continent, country ORDER BY 3 DESC;` identifies the countries with the highest number of COVID-19 recoveries within each continent, sorted by the highest recovery numbers. This insight highlights the countries that have been most successful in managing recoveries, offering a glimpse into effective healthcare responses and the resilience of their healthcare systems during the pandemic.