```
USE covid;
SELECT * FROM covid19 ;
/* Calculate the total number of cases and deaths.*/
SELECT SUM(New cases) AS total cases, SUM(New deaths) AS total deaths
FROM covid19;
/*Determine the average number of new cases and deaths per day.*/
SELECT AVG(New cases) AS avg cases, AVG(New deaths) AS avg deaths FROM
covid19;
WITH CountryAggregates AS (
   SELECT
       Country,
       SUM(New cases) AS TotalCases,
       SUM(New deaths) AS TotalDeaths
   FROM covid19
   GROUP BY Country
),
MaxCases AS (
   SELECT Country, TotalCases
   FROM CountryAggregates
   ORDER BY TotalCases DESC
   LIMIT 1
),
MinCases AS (
   SELECT Country, TotalCases
   FROM CountryAggregates
   ORDER BY TotalCases
  LIMIT 1
),
MaxDeaths AS (
   SELECT Country, TotalDeaths
   FROM CountryAggregates
   ORDER BY TotalDeaths DESC
   LIMIT 1
),
MinDeaths AS (
   SELECT Country, TotalDeaths
  FROM CountryAggregates
   ORDER BY TotalDeaths
   LIMIT 1
SELECT 'Highest Cases' AS Type, Country, TotalCases AS Value FROM
MaxCases
UNION ALL
SELECT 'Lowest Cases', Country, TotalCases FROM MinCases
UNION ALL
```

```
SELECT 'Highest Deaths', Country, TotalDeaths FROM MaxDeaths
UNION ALL
SELECT 'Lowest Deaths', Country, TotalDeaths FROM MinDeaths;
/*Top 10 country with sum of new cases*/
SELECT Country, SUM(New cases) AS TotalCases
FROM covid19
GROUP BY Country
ORDER BY TotalCases desc
LIMIT 10;
/*Top 10 country with sum of new deaths*/
SELECT Country, SUM(New deaths) AS TotalDeaths
FROM covid19
GROUP BY Country
ORDER BY TotalDeaths DESC
LIMIT 10;
/*Top 10 country with sum of new cases and new deaths*/
SELECT Country, SUM(New cases) AS TotalCases, SUM(New deaths) AS
TotalDeaths
FROM covid19
GROUP BY Country
ORDER BY TotalCases DESC, TotalDeaths DESC
LIMIT 10;
/*number of case per years*/
SELECT YEAR (Date reported), SUM (New cases) AS TotalCases
FROM covid19
GROUP BY year (Date reported)
ORDER BY year (Date reported);
/*number of death per years*/
SELECT YEAR (Date reported), SUM (New deaths) AS TotalDeaths
FROM covid19
GROUP BY year(Date reported)
ORDER BY year (Date reported);
/*in 2020 monthwise cases and deaths*/
SELECT MONTH (Date reported) AS Month Year 2020, SUM (New cases) AS
TotalCases, SUM(New deaths) AS TotalDeaths
FROM covid19
WHERE YEAR (Date reported) = 2020
GROUP BY MONTH(Date reported)
ORDER BY MONTH (Date reported);
SELECT MONTH(Date reported) AS Month Year 2021, SUM(New cases) AS
TotalCases, SUM(New deaths) AS TotalDeaths
FROM covid19
```

```
WHERE YEAR (Date reported) = 2021
GROUP BY MONTH(Date reported)
ORDER BY MONTH (Date reported);
SELECT MONTH (Date reported) AS Month Year 2022, SUM (New cases) AS
TotalCases, SUM(New deaths) AS TotalDeaths
FROM covid19
WHERE YEAR (Date reported) = 2022
GROUP BY MONTH(Date reported)
ORDER BY MONTH (Date reported);
SELECT MONTH(Date reported) AS Month Year 2023, SUM(New cases) AS
TotalCases, SUM(New deaths) AS TotalDeaths
FROM covid19
WHERE YEAR (Date reported) = 2023
GROUP BY MONTH (Date reported)
ORDER BY MONTH (Date reported);
SELECT MONTH (Date reported) AS Month Year 2024, SUM (New cases) AS
TotalCases, SUM(New deaths) AS TotalDeaths
FROM covid19
WHERE YEAR (Date reported) = 2024
GROUP BY MONTH (Date reported)
ORDER BY MONTH (Date reported);
/*distribute by WHO region*/
SELECT WHO region, SUM(New cases) AS TotalCases, SUM(New deaths) AS
TotalDeaths
FROM covid19
GROUP BY WHO region
ORDER BY WHO region;
/*most affect who region with number of country come under that */
SELECT WHO region, COUNT(DISTINCT Country) AS CountryCount
FROM covid19
GROUP BY WHO region
ORDER BY CountryCount DESC
LIMIT 1;
```