SQL LOGICAL QUESTIONS

Scenario: You are given a dataset containing information about global temperatures and CO2 emissions.

Table name: country_pollution

Country	Temperature	CO2 Emissions	Date(Year)

1. Question: Write a query to find the countries with the highest temperatures in the dataset?

Select country, max (temperature) as highest_temperature from country_pollution group by country order by highest_temperature desc limit 1:

2. Question: Write a query to identify the countries with the lowest CO2 emissions in the dataset.

Select country, min (CO2_emissions) as lowest_CO2_emissions from country_pollution group by country order by lowest_CO2_emissions asc limit 1:

3. Question: Write a query to find all temperature records above a specific value, for example, 20 degrees Celsius.

Select * from country_pollution where temperature > 20;

4. Question: Write a query to list all countries with CO2 emissions data available for the year 2020.

Select country from country_pollution where date = 2020 and CO2_emissions is not null;

5. Question: Write a query to count the total number of temperature records in the dataset.

Select count(temperature) as total_temperature_records from country_pollution;

6. Question: Write a query to identify any countries with missing temperature data for a specific year, for example, 2015.

Select country from country_pollution where date = 2015 and temperature is null;

7. Question: Write a query to find the average temperature for each year in the dataset.

Select date, avg(temperature) as average_temperature from country_pollution group by date;

8. Question: Write a query to calculate the total CO2 emissions for all countries in the dataset.

Select sum(CO2_emissions) as total_CO2_emissions from country_pollution;

9.Question: Write a query to sort the temperature data in descending order based on the temperature values.

Select * from country_pollution order by temperature desc;