SQL LOGICAL QUESTIONS

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

Tablename: country_pollution

Country	Temperature	CO2Emissions	Date(Year)
.....	......	......	....

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

```
SELECT Country
FROM country_pollution
WHERE Temperature = (SELECT MAX(Temperature) FROM country_pollution);
```

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

```
SELECT Country
FROM country_pollution
WHERE "CO2 Emissions" = (SELECT MIN("CO2 Emissions") FROM country_pollution);
```

3. Question: Write a query to find all the temperaturere cords above a specific value,for example, 20 degrees Celsius.

```
SELECT Temperature
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(Year)" = 2020
AND "CO2 Emissions" IS NOT NULL;
```

5. Question: Write a query to count the total number of temperaturere cords in the dataset.

```
SELECT COUNT(*) AS no_of_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 DISTINCT country
FROM country_pollution
WHERE "Date(Year)"= 2015
AND Temperature IS NULL;
```

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

```
SELECT "Date(Year)", AVG(Temperature) AS average_temperature
FROM country_pollution
GROUP BY "Date(Year)";
```

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 indescending order based on temperature values.

```
SELECT  *
FROM  country_pollution
ORDER BY Temperature DESC;
```