Weather dataset analysis

https://www.kaggle.com/datasets/bhanupratapbiswas/weather-data

This data set contains total 8 columns. Here is a breakdown for each column

column	description
1.Date/time	Timestamp of weather record in
	(MM/DD/YYYY HH:MM format)
2.Temp_C	Temperature in Degree Celsius
3.Dewpoint Temp_C	Dew point temperature in degree
	celsius
4.Rel Humidity	Moisture in air in percentage
5.Wind speed in km/h	Windspeed
6.Visibility in kms	Visibility in kms
7.atmospheric pressure in kilo pascals	Pressure in kilopascals
8.weather	

Air contains water vapour

Dew Point:It is the measure of how much water vapour in the air(wetness in the air) in degree delsius

Dewpoint Comfort level (how we feel like)

<10 c cool air

21-24 c dryness,uncomfortable

>24c sweaty

1. Find the maximum temperature recorded

Select max(Temp_c) from weather;

Output:

https://drive.google.com/file/d/1Td_giS4WWC-Hp0BYw1ymjuN418zBiPBo/view?usp=sharing

2.Get distinct weather conitions

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Select distinct Weather from weather;
Output:
https://drive.google.com/file/d/1KMrRSo5Tdht0-ABMD2L4DB3dbpJ6Clo2/view?usp=sharing
3. Write a query to find foggy hours
Select count(*) from weather where weather like'%fog%';
https://drive.google.com/file/d/1paFOzLIS61aVju2hWCbr6suOXWccP44P/view?usp=sharing
4. Write a query to find average temperature by weather condition
Select weather, avg(Temp c) from weather group by weather;
https://drive.google.com/file/d/1qNE9hoOG6PbWVBPjVP79UiQRSWZaAp2N/view?usp=sharing
5.write a guery to find number of hours with visibility below 1km
Select count(*) from weather where Visibility km<1;
https://drive.google.com/file/d/10H7XN4pf 0pwsPPxZARzog-dSe2Ca-3/view?usp=sharing
6. Find the coldest hour (lowest temperature)
Select 'Date/Time', Temp C from weather order by Temp C ASC Limit 1;
https://drive.google.com/file/d/1GQtDyFSZIR16zSnZFFkLfN2HKgrAFheF/view?usp=sharing
7. Find the average pressure when temperature is below 0 c
Select avg(Press Kpa) from weather where Temp C<0;
https://drive.google.com/file/d/1rlzoVNq2JsOoO10gND4MH7KRge3HvjVC/view?usp=sharing
8.count of weather conditions containing "Rain"
Select count(*) from weather where weather like '%Rain%';
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https://drive.google.com/file/d/1_VWfkjBEBGF0fCoQT1Dmo-guJkjk7mwT/view?usp=sharing

9. Find Top 5 most frequent weather conditions

Select weather, count(*) as frequency from weather group by weather order by frequency desc limit 5;

https://drive.google.com/file/d/17adViRa SMAg7ZnXWUfF9E27fXcZIfle/view?usp=sharing

10. Find average visibility during foggy weather

Select avg(Visibility km) from weather where weather like '%fog';

https://drive.google.com/file/d/1l4nOJ1EIP3MaCkK5U2aiwZtNHkD5RIrT/view?usp=sharing

11. Find the maximum dew point recorded when it occurred

Select 'Date/Time','Dew Point Temp_C' from weather order by 'Dew point Temo_C' desc Limit 1;

https://drive.google.com/file/d/1sm6mggPttoHnX3- rpTlq2u5z5t0A9iS/view?usp=sharing

12. Find the average wind speed for each weather condition

Select weather,avg('Wind Speed km/h') as avg_windspeed from weather group by weather;

https://drive.google.com/file/d/1owLZcE72dRbLetkRl930ZF5G2UY-3Kzc/view?usp=sharing