

Questions for Analysis

❖ Basic Level Questions:

1. What is the air quality data recorded in the city of "New York"?
2. What was the air quality in "Los Angeles" on "2024-08-01"?
3. How many entries exist for each city in the dataset?
4. What is the maximum PM2.5 level recorded for each city?
5. Are there any records with missing PM10 values?

❖ Intermediate Level Questions:

1. What are the average PM2.5, PM10, NO2, and SO2 levels for each city?
2. On which dates was the PM2.5 level above 100 in "Mumbai"?
3. What are the average PM2.5 and PM10 levels by country, sorted in descending order?
4. What is the correlation between temperature and PM2.5 levels by city?
5. Which city had the highest average NO2 levels in July 2024?

❖ Hard Level Questions:

1. What is the trend in PM2.5 levels over time in "Beijing"?
Show monthly averages for the past year.
2. Which are the top 5 cities with the highest average PM2.5 levels over the last 6 months?
3. How does wind speed affect PM10 levels in different cities? Compare days with wind speeds above and below 15 km/h.
4. Are there any days in "Dubai" where PM2.5 and PM10 levels spiked by more than 50% compared to the previous day?