Compare Weekly, Monthly, and Annual Ozone Trends for NYC & LA - Question & Answer

# Question:

Compare weekly, monthly, and annual ozone trends for NYC and LA by resampling the dataset and plotting aggregated averages.

# Answer (Code):

# Import and inspect data here  
ozone = pd.read\_csv('ozone.csv', parse\_dates=['date'], index\_col='date')  
print(ozone.info())  
  
# Calculate and plot the weekly average ozone trend  
ozone.resample('W').mean().plot()  
plt.title('Weekly Average Ozone Trend')  
plt.show()  
  
# Calculate and plot the monthly average ozone trend  
ozone.resample('M').mean().plot()  
plt.title('Monthly Average Ozone Trend')  
plt.show()  
  
# Calculate and plot the annual average ozone trend  
ozone.resample('A').mean().plot()  
plt.title('Annual Average Ozone Trend')  
plt.show()

## Question Explanation (20 words):

The question asks for resampling ozone data by different time frequencies and comparing the trends through visualization.

## Answer Explanation (20 words):

We use pandas .resample() with mean aggregation for weekly, monthly, and annual ozone data and plot each trend.

## Reference Image:

