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import pandas as pd
import matplotlib.pyplot as plt

# 1. Load the dataset
file = '/content/drive/MyDrive/owid-covid-data.csv'

# 2. Filter for South Korea and France
countries = ['South Korea', 'France']
df_filtered = df[df['location'].isin(countries)]

# 3. Select necessary columns and drop rows with missing values
df_filtered = df_filtered[['location', 'date', 'total_cases', 'population']].dropna()

# 4. Calculate ratio: total cases / population
df_filtered['cases_per_population'] = df_filtered['total_cases'] / df_filtered['population']

# 5. Convert date column to datetime type
df_filtered['date'] = pd.to_datetime(df_filtered['date'])

# 6. Plot
plt.figure(figsize=(12, 6))
for country in countries:
    country_df = df_filtered[df_filtered['location'] == country]
    plt.plot(country_df['date'], country_df['cases_per_population'], label=country)

plt.title('COVID-19 Total Cases per Population (South Korea vs France)')
plt.xlabel('Date')
plt.ylabel('Total Cases / Population')
plt.legend()
plt.grid(True)
plt.tight_layout()
plt.show()

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