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from google.colab import files
uploaded = files.upload()
import pandas as pd
# Load dataset
df = pd.read_csv('urban_climate.csv', encoding='latin1', low_memory=False)
# See first 5 rows
print(df.head())
# Check column names
print(df.columns.tolist())
# Check basic info
print(df.info())
# Get basic stats
print(df.describe())
# Check for missing values
print(df.isnull().sum())
# Optionally remove rows with missing values
df = df.dropna()
# Verify cleaning
print("After cleaning:")
print(df.info())
# Summary statistics
print(df.describe())
# Unique cities and years
print("Cities:", df['city'].unique())
print("Years range:", df['year'].min(), "to", df['year'].max())
import matplotlib.pyplot as plt
import seaborn as sns
plt.figure(figsize=(10,6))
sns.lineplot(x='month', y='temperature_celsius', data=df)
plt.title('Monthly Average Temperature')
plt.xlabel('Month')
plt.ylabel('Temperature (°C)')
plt.show()
plt.figure(figsize=(10,6))
sns.barplot(x='month', y='precipitation_mm', data=df, color='skyblue')
plt.title('Average Monthly Precipitation')
plt.xlabel('Month')
plt.ylabel('Precipitation (mm)')
plt.show()
plt.figure(figsize=(10,6))
sns.lineplot(x='month', y='wind_speed_ms', data=df, color='orange')
plt.title('Average Monthly Wind Speed')
plt.xlabel('Month')
plt.ylabel('Wind Speed (m/s)')
plt.show()

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