1.88 Million Wildfires Exploratory Data Analysis

Kaggle Link

https://www.kaggle.com/datasets/rtatman/188-million-us-wildfires/data

Python: Connect to SQL File and View the Tables

```
import pandas as pd
import sqlite3

# Load DB
conn = sqlite3.connect(r"C:\Users\raven\Desktop\[06] Temp_Projects\1.88M_wildfires\FPA_FOD_20170508.sqlite")
#shortcut to the connection cursor
c = conn.cursor()
```

```
# Pull Tables from DB
query = c.execute("SELECT name FROM sqlite_schema WHERE type ='table'")
tables = query.fetchall()
print(tables)
```

Python: Convert SQL table to DataFrame

```
# Fires SQL Table to Pandas DataFrame
df_fires = pd.read_sql_query(f"SELECT * FROM Fires", conn)

# Check bottom 5 rows
df_fires.tail()
```

	0	BJECTID	FOD_ID	FPA_ID	SOURCE_SYSTEM_TYPE	SOURCE_SYSTEM	NWCG_REPORTING_AGENCY	NWCG_REPOI
188	0460	1880461	300348363	2015CAIRS29019636	NONFED	ST-CACDF	ST/C&L	
188	0461	1880462	300348373	2015CAIRS29217935	NONFED	ST-CACDF	ST/C&L	
188	0462	1880463	300348375	2015CAIRS28364460	NONFED	ST-CACDF	ST/C&L	
188	0463	1880464	300348377	2015CAIRS29218079	NONFED	ST-CACDF	ST/C&L	
188	0464	1880465	300348399	2015CAIRS26733926	NONFED	ST-CACDF	ST/C&L	

5 rows × 39 columns

Python: Drop Unneeded Columns and Export CSV

```
# Drop columns

df_fires.drop(columns = ["FOD_ID", "FPA_ID", "SOURCE_SYSTEM", "NWCG_REPORTING_AGENCY", "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_UNIT", "NWCG_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_OUNTS, "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_UNIT", "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_OUNTS, "SOURCE_REPORTING_OUNTS, "SOURCE_REPORTING_OUNTS, "SOURCE_REPORTING_OUNTS, "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_OUNTS, "SOURCE_REPORTING_OUNTS, "NWCG_REPORTING_OUNTS, "SOURCE_REPORTING_OUNTS, "SOURCE_SYSTEM", "SOURCE_SYSTEM", "SOURCE_SYSTEM", "SOURCE_SYSTEM", "SOURCE_SYSTEM", "SOURCE_SYSTEM", "SOURCE_SYSTEM", "SOURCE_REPORTING_OUNTS, "SOURCE_REPORTING_OUNTS, "SOURCE_REPORTING_OUNTS, "SOURCE_SYSTEM", "SOURCE_
```

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