Add Cell

code

```python
import requests
import pandas as pd

url_list = [
    "https://api.openf1.org/v1/drivers",
    "https://api.openf1.org/v1/pit",
    "https://api.openf1.org/v1/race_control",
    "https://api.openf1.org/v1/sessions",
    "https://api.openf1.org/v1/stints",
    "https://api.openf1.org/v1/weather"
]

def download_all_data(url_list):
    """
    Downloads all API data as CSV files.
    """
    for url in url_list:
        response = requests.get(url)
        if response.status_code == 200:
            json_data = response.json()
            file_name = url.split("/")[-1]
            pd.DataFrame(json_data).to_csv(f"{file_name}.csv", index=False)

download_all_data(url_list)

# Weather data filtering by session key
session_df = pd.read_csv("sessions.csv")
weather_df = pd.read_csv("weather.csv")
if "session_key" in session_df.columns and "session_key" in weather_df.columns:
    session_list = session_df["session_key"].drop_duplicates()
    weather_data = weather_df[weather_df["session_key"].isin(session_list)]
    weather_data.to_csv("filtered_weather_data.csv", index=False)
else:
    print("Required column 'session_key' not found in sessions or weather data.")

# Race control data extraction
race_control_df = pd.DataFrame()
response = requests.get("https://api.openf1.org/v1/race_control")
if response.status_code == 200:
    race_control_data = pd.DataFrame(response.json())
    race_control_data.fillna({"flag": "Other", "scope": "Other"}, inplace=True)
    race_control_data.to_csv("filtered_race_control_data.csv", index=False)
```

Add Cell

code

```python
import os

# List of filenames to verify
files = [
    "drivers.csv",
    "sessions.csv",
    "pit.csv",
    "race_control.csv",
    "weather.csv",
    "stints.csv",
    "laps.csv"
]

# Loop through each file and check if it exists
for file in files:
    if os.path.exists(file):
        print(f"Successfully imported {file.split('.')[0]} data.")
    else:
        print(f"Error: {file.split('.')[0]} data not found.")

print("For the Red Bull Racing team.")

```

CTRL+Enter to run

```
Successfully imported drivers data.
Successfully imported sessions data.
Successfully imported pit data.
Successfully imported race_control data.
Successfully imported weather data.
Successfully imported stints data.
Error: laps data not found.
For the Red Bull Racing team.
```

Add Cell