Dataframe - Case Study

Table of Contents

1. Project Imports

```
import pandas as pd
```

2. Dataframe Python Implementation

```
# Load the AirBase data into a data frame<br>
airbase_data = pd.read_csv('data/airbase_data.csv')

# Display the first few rows of the data frame<br>
print(airbase_data.head())

# Filter the data for a specific country<br>
country_data = airbase_data[airbase_data['Country'] == 'Germany']

# Display the filtered data<br>
print(country_data)

# Group the data by city and calculate the average air quality
values<br>
city_avg_data = airbase_data.groupby('City').mean()

# Display the average values per city<br>
print(city_avg_data)

# Sort the data frame by air quality values in descending order<br>
sorted_data = airbase_data.sort_values('AirQuality', ascending=False)

# Display the sorted data<br>
print(sorted_data)
```