pandas

Grouping and **Sorting**

4

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Grouping

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Use groupby in pandas to aggregate data by groups, applying functions like sum, mean, or custom operations on subsets

```python
import pandas as pd

# Create DataFrame
df = pd.DataFrame({
    'Category': ['A', 'B', 'A', 'B'],
    'Value': [10, 20, 15, 25]
})

# Group by 'Category' and sum 'Value'
result = df.groupby('Category').sum()

print(result)
```

```
          Value
Category
A            25
B            45
```

Sorting

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To sort a DataFrame in pandas, use sort_values or sort_index.

```python
import pandas as pd

# Create DataFrame
df = pd.DataFrame({
    'Category': ['B', 'A', 'B', 'A'],
    'Value': [20, 10, 25, 15]
})

# Sort by 'Value'
sorted_df = df.sort_values('Value')

print(sorted_df)
```

```
   Category  Value
1         A     10
3         A     15
0         B     20
2         B     25
```

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Thank you

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