



# Grouping and **Sorting**



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# Grouping

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

```
1  import pandas as pd
2
3  # Create DataFrame
4  df = pd.DataFrame({
5      'Category': ['A', 'B', 'A', 'B'],
6      'Value': [10, 20, 15, 25]
7  })
8
9  # Group by 'Category' and sum 'Value'
10 result = df.groupby('Category').sum()
11
12 print(result)
13
```

Category	Value
A	25
B	45

# Sorting

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

```
1  import pandas as pd
2
3  # Create DataFrame
4  df = pd.DataFrame({
5      'Category': ['B', 'A', 'B', 'A'],
6      'Value': [20, 10, 25, 15]
7  })
8
9  # Sort by 'Value'
10 sorted_df = df.sort_values('Value')
11
12 print(sorted_df)
13
```

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



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Thank you

