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## Cheatsheets / Learn Data Analysis with Pandas



## **Aggregates in Pandas**

## Pandas' Groupby

```
df = pd.DataFrame([
    ["Amy", "Assignment 1",75],
    ["Amy", "Assignment 2",35],
    ["Bob", "Assignment 1",99],
    ["Bob", "Assignment 2",35]
    ], columns=["Name", "Assignment",
"Grade"])

df.groupby('Name').Grade.mean()

# output of the groupby command
|Name | Grade|
|- |- |
|Amy | 55|
|Bob | 67|
```

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## **Pandas DataFrame Aggregate Function**

Pandas' aggregate statistics functions can be used to calculate statistics on a column of a DataFrame. For example, df.columnName.mean() computes the mean of the column

 $columnName \ \ of \ data frame \ \ df \ . \ The \ code$  block shows how to calculate statistics on the column  $columnName \ \ of \ \ df \ \ using \ \mathsf{Pandas'}$  aggregate statistics functions.

df.columnName.mean() # Average of all
values in column

df.columnName.std() # Standard deviation
of column

df.columnName.median() # Median value of
column

df.columnName.max() # Maximum value in
column

df.columnName.min() # Minimum value in
column

df.columnName.count() # Number of values
in column

df.columnName.nunique() # Number of
unique values in column

df.columnName.unique() # List of unique
values in column

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