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Cheatsheets / Exploratory Data Analysis in Python



## **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 dataframe df. The code block shows how to calculate statistics on the column columnName of df using Pandas' aggregate statistics functions.

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

df.columnName.unique() # List of unique

unique values in column

values in column

df.columnName.mean() # Average of all



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