## In [28]: import pandas as pd import numpy as np

Import the necessary libraries

Load and assign it to a variable called chipo.

chipo = pd.read csv(url, sep = '\t')

3

0

1

... 4617

4618

4619

4620

4621

print(c)

print(d)

**New Dataset** 

Team Goals

4

4

4

5

3

euro12.set\_index('Team')

Goals

4

4

4

5

3

10

5

6

2

2

6

1

5

12

5

2

euro12[(euro12.Goals>6)]

Team Goals

10

12

Goals Blocks

Team Shooting Accuracy

NaN

NaN

NaN

NaN

NaN

NaN

50.0%

43.0%

22.5%

**Shots Shots** 

target target

on

13

13

10

11

22

Select all rows and columns from 0 to 7

Goals

4

4

4

5

3

10

5

6

2

2

6

1

5

12

5

2

4

4

5

3

Team

Croatia

Denmark

England

France

Germany

Greece

Poland

Portugal

Ireland

Russia

Spain

Sweden

Ukraine

Republic of

Netherlands

Italy

Czech Republic

Select every row up to the 5th row and all columns

off

12

18

10

18

24

Shooting

51.9%

41.9%

50.0%

50.0%

37.9%

Shots on

target

13

13

10

11

22

32

8

34

12

15

22

7

9

42

17

7

5 Germany

13

Spain

2 rows × 35 columns

print(euro12)

Denmark

Germany

3 England

Italy

euro12.iloc[0:5,:]

Team Goals

Croatia

Czech

Republic

England

France

5 rows × 35 columns

euro12.iloc[:,0:8]

2 Denmark

Russia

7

12

Italy

Team

Croatia

Czech

Republic

Denmark

**England** 

**France** 

Germany

Greece

Poland

**Portugal** 

Ireland Russia

Spain

Sweden

Ukraine

In [42]:

Out[42]:

In [60]:

In [49]:

Out[49]:

In [54]:

Out[54]:

Out[52]:

0

1

2

3

4 5

6

7

8

9

10

11

12

13

14

15

In [ ]:

16 rows × 34 columns

Republic of

Netherlands

Italy

Croatia

Czech

Republic

England

France

euro12.shape

(16, 35)

5 rows × 35 columns

2 Denmark

0

18

20

4622 rows × 1 columns

Out[16]:

In [29]:

In [32]:

Out[32]:

In [33]:

Out[33]:

In [55]:

Out[55]:

2

In [15]: chipo.head()

1 Chips and Tomatillo-Green Chili Salsa

Sort the dataframe chipo by item\_name column

item\_name

Nantucket Nectar

Chicken Bowl

Steak Burrito

Steak Burrito

How many customers ordered Veggie Salad Bowl item?

%26 Sorting/Euro12/Euro 2012 stats TEAM.csv', sep=',')

Shooting

Accuracy

51.9%

41.9%

50.0%

50.0%

37.9%

**Shooting** 

**Accuracy** 

51.9%

41.9%

50.0%

50.0%

37.9%

47.8%

30.7%

43.0%

25.0%

39.4%

34.3%

36.8%

22.5%

55.9%

47.2%

21.2%

Goals-

to-

shots

16.0%

12.9%

20.0%

17.2%

6.5%

15.6%

19.2%

7.5%

4.1%

5.2%

9.3%

5.2%

12.5%

16.0%

13.8%

6.0%

%

to-

15.6%

16.0%

shots Blocked)

Shooting Goals-

Accuracy

47.8%

55.9%

Present only the Shooting Accuracy from England, Italy and Russia

%

to-

shots Blocked)

Shots off

target

12

18

10

18

24

32

18

45

36

23

42

12

31

33

19

26

Goals-

16.0%

12.9%

20.0%

17.2%

6.5%

Total

shots

32

39

27

40

65

(inc. Woodwork

Shots

on

13

13

10

11

22

target target

Shots

off

12

18

10

18

24

Set Team columns as index in euro dataframe

off

12

18

10

18

24

32

18

45

36

23

42

12

31

33

19

26

**Shots Shots** 

target target

on

13

13

10

11

22

32

8

34

12

15

22

7

9

42

17

7

Filter teams that scored more than 6 goals

**Shots Shots** 

target target

off

33

on

42

c = np.count\_nonzero(chipo.item\_name == "Veggie Salad Bowl")

How many times did someone order more than one Canned Soda?

d = np.count\_nonzero((chipo.item\_name == "Canned Soda") & (chipo.quantity > 1))

%

to-

Goals-

shots

16.0%

12.9%

20.0%

17.2%

6.5%

Total

shots

Blocked)

(inc.

32

39

27

40

65

Total

shots

Blocked)

(inc.

32

39

27

40

65

80

32

110

60

48

82

28

59

100

39

38

Total

shots

100

Filter ['Denmark', 'Germany', 'Italy'] teams and ['Goals', 'Blocks'] columns from euro dataframe

euro12 = pd.DataFrame(index = ['Denmark', 'Germany', 'Italy'], columns = ['Goals', 'Blocks'])

euro12.loc[euro12.Team.isin(['England','Italy','Russia']), ['Team','Shooting Accuracy']]

(inc. Woodwork

euro12 = pd.read\_csv('https://raw.githubusercontent.com/guipsamora/pandas\_exercises/master/02\_Filtering

Woodwork

Chicken Salad Bowl

Chicken Salad Bowl

Chicken Salad Bowl

Izze

pd.DataFrame(chipo,columns = ['item name'])

Chips and Fresh Tomato Salsa

3 Chips and Tomatillo-Green Chili Salsa

order\_id quantity choice\_description item\_price item\_name

0 Chips and Fresh Tomato Salsa NaN \$2.39

1 [Clementine] \$3.39 Nantucket Nectar [Apple] \$3.39

Chicken Bowl [Tomatillo-Red Chili Salsa (Hot), [Black Beans...

NaN

\$2.39

\$16.98

Saves-

shots

ratio

81.3%

60.1%

66.7%

88.1%

54.6%

to-

**Fouls** 

Won

41

53

25

43

36

Saves-

shots

ratio

81.3%

60.1%

66.7%

88.1%

54.6%

62.6%

65.1%

74.1%

70.6%

66.7%

71.5%

65.4%

77.0%

93.8%

61.6%

76.5%

to-

Fouls

Won

41

53

25

43

36

63

67

101

35

48

73

43

34

102

35

48

Fouls

49

83

Won Conceded

Of

F٥

Conce

Saves

made

13

10

22

6

10

13

20

12

6

10

17

10

15

13

Saves-

shots

62.6%

93.8%

Saves-

shots

ratio

81.3%

60.1%

66.7%

88.1%

54.6%

Total shots (inc.

**Blocked)** 

32

39

27

40

65

80

32

110

60

48

82

28

59

100

39

38

Saves

13

9

10

22

6

to- Fouls

41

53

25

43

36

Fouls

62

73

38

45

51

Hit

0

0

0

1

2

1

2

2

0

6

0

2

0

3

0

Woodwork

Won Conceded

**Penalties** 

scored

not

0

0

0

0

% Goals-to-

shots

16.0%

12.9%

20.0%

17.2%

6.5%

15.6%

19.2%

7.5%

4.1%

5.2%

9.3%

5.2%

12.5%

16.0%

13.8%

6.0%

Hit Penalty

0

0

0

**Shooting** 

Accuracy

51.9%

41.9%

50.0%

50.0%

37.9%

47.8%

30.7%

43.0%

25.0%

39.4%

34.3%

36.8%

22.5%

55.9%

47.2%

21.2%

goals

0

0

0

0

ratio

to- Fouls

63

102

**Fouls** 

62

73

38

45

51

Conceded

Offs

Saves

made

13

9

10

22

6

**Penalties** 

scored

not

0

0

0

0

0

Penalties

scored

not

0

0

0

0

0

0

0

0

0

0

0

0

0

0

**Penalties** 

scored

not

0

0 ...

Headed

goals

2 ...

0 ...

3 ...

3 ...

0 ...

2 ...

0 ...

2 ...

0 ...

1 ...

2 ...

1 ...

1 ...

2 ...

2 ...

**Saves** 

made

10

15

Hit Penalty

0

0

1

0

1

2

1

2

2

0

6

0

2

0

0

Woodwork

goals

0

0

0

0

0

1

0

0

0

0

0

0

1

0

0

Hit Penalty

0

goals

1

Penalty

goals

0

0

0

0

0

Hit

0

0

1

0

1

Out[15]:

In [14]: url = 'https://raw.githubusercontent.com/justmarkham/DAT8/master/data/chipotle.tsv'