```
import pandas as pd
# Read file, Variable Name is used
as Index (row names)
df=pd.read csv('responses.csv',
index col='Name')
# Change the name of the index
df.index.name='Person'
# Print dimensions of the
spreadsheet
print df.shape
df=df.iloc[18:]
                                          (170, 25)
print df.shape
                                          (152, 25)
df['index'] = df.index
df.drop_duplicates(subset='index',
inplace=True)
df.drop('index', axis=1,
inplace=True)
# Print the first five rows to
inspect the table
df.head(5)
# Print a summary of the dataset
df.describe()
                                          6.77536231884
print df['Math'].mean()
                                          6.77536231884
print df.Math.mean()
courses=df.columns[4:7]+
df.columns[9:16]
                                          Index([u'Biology', u'Crafts',
print courses
                                          u'Dutch', u'Economy', u'English',
                                          u'Geography',
                                                                u'Gym',
                                          u'History', u'Math',
u'Physics_Chemistry'],
                                          dtype='object')
coursesDataFrame = df[courses]
                                          y = 5 names, x = all courses
coursesDataFrame.head(5)
                                          and averages
courseMean=coursesDataFrame.mean()
courseMean.sort(ascending=False)
print courseMean
courseMean.plot(kind='bar');
coursMeanPP=coursesDataFrame.mean(
axis=1)
coursMeanPP.sort(ascending=False)
coursMeanPP.plot(kind='bar');
inverse=df[courses].transpose()
                                          swiched courses against people
inverse.mean().sort values(ascendi
                                          average per person
ng=False)[:20]
df[courses].transpose().corr().hea
                                          people to people and their corr
d(5)
                                          value
course_corr_matrix =
                                          course to courses and their corr
df[courses].corr()
                                          value
```