**16.How to do descriptive statistics using pandas groupby function in python?**

**Objective:**

* To calculate the descriptive statistics values using pandas groupby function using python.

**Process:**

* Read the sample data.
* Make it as a data frame.
* Use groupby() from pandas library.

**Input:**

* Data set(sample).

**Output:**

* We can get the count,unique,top,frequency and descriptive statistics like, mean,min,25%,50% and 75% and maximum value in the data set.

**Source code:**

#import library

import matplotlib.pyplot as plt

import pandas as pd

#10 sample data

data={'name':['sathish','raj','raja','krishna','yusuf',

'sathish','raj','raja','krishna','yusuf'],

'band':['a','a','a','a','a','b','b','b','b','b'],

'age':[25,26,25,23,30,29,23,23,25,25],

'rating':[4,3.24,2.5,2.25,2,2.25,2.5,2.75,3.2,4.2], 'bonus':[2500,1200,900,1400,1800,1400,850,250,750, 1000]}

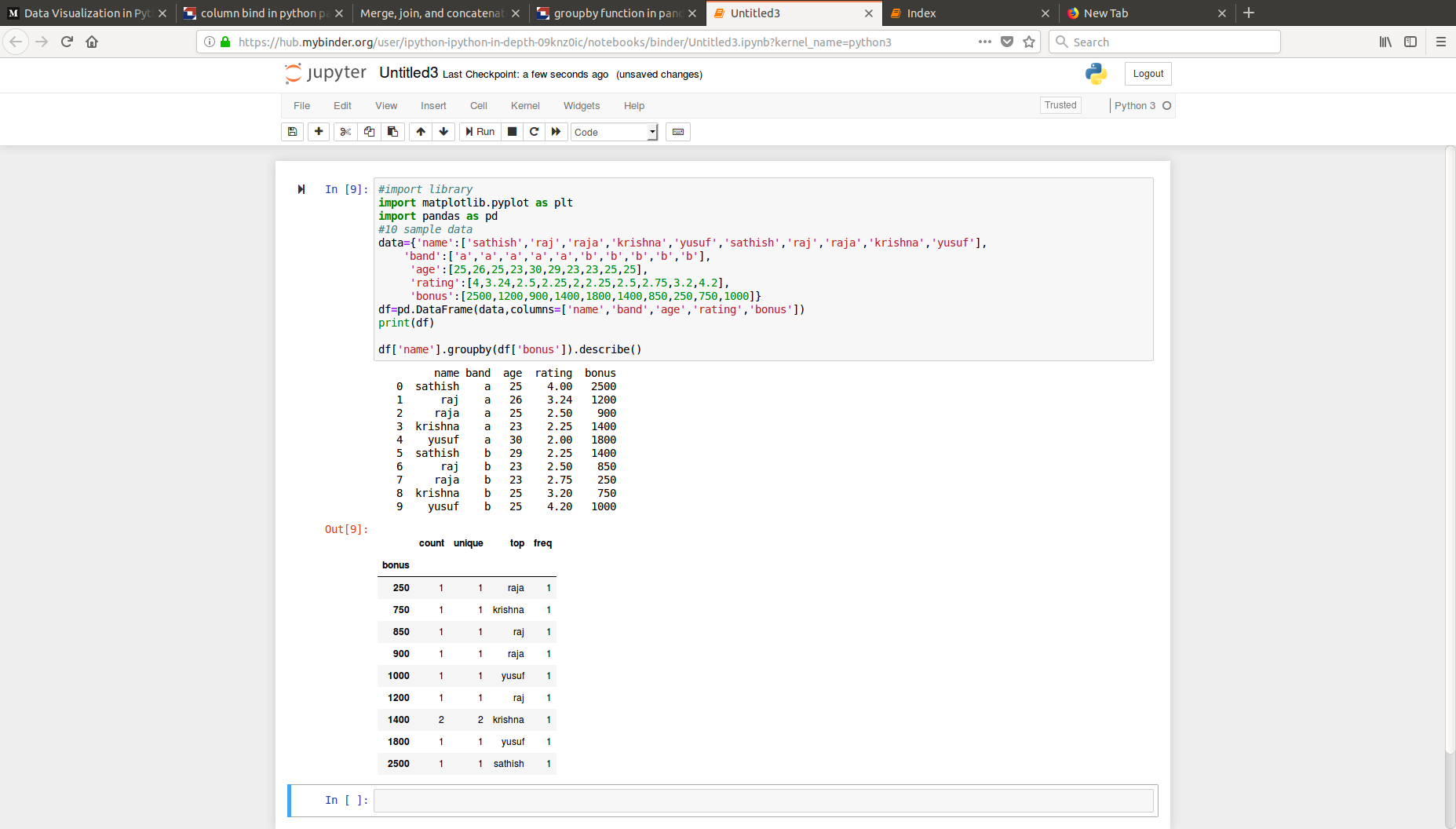
df=pd.DataFrame(data)

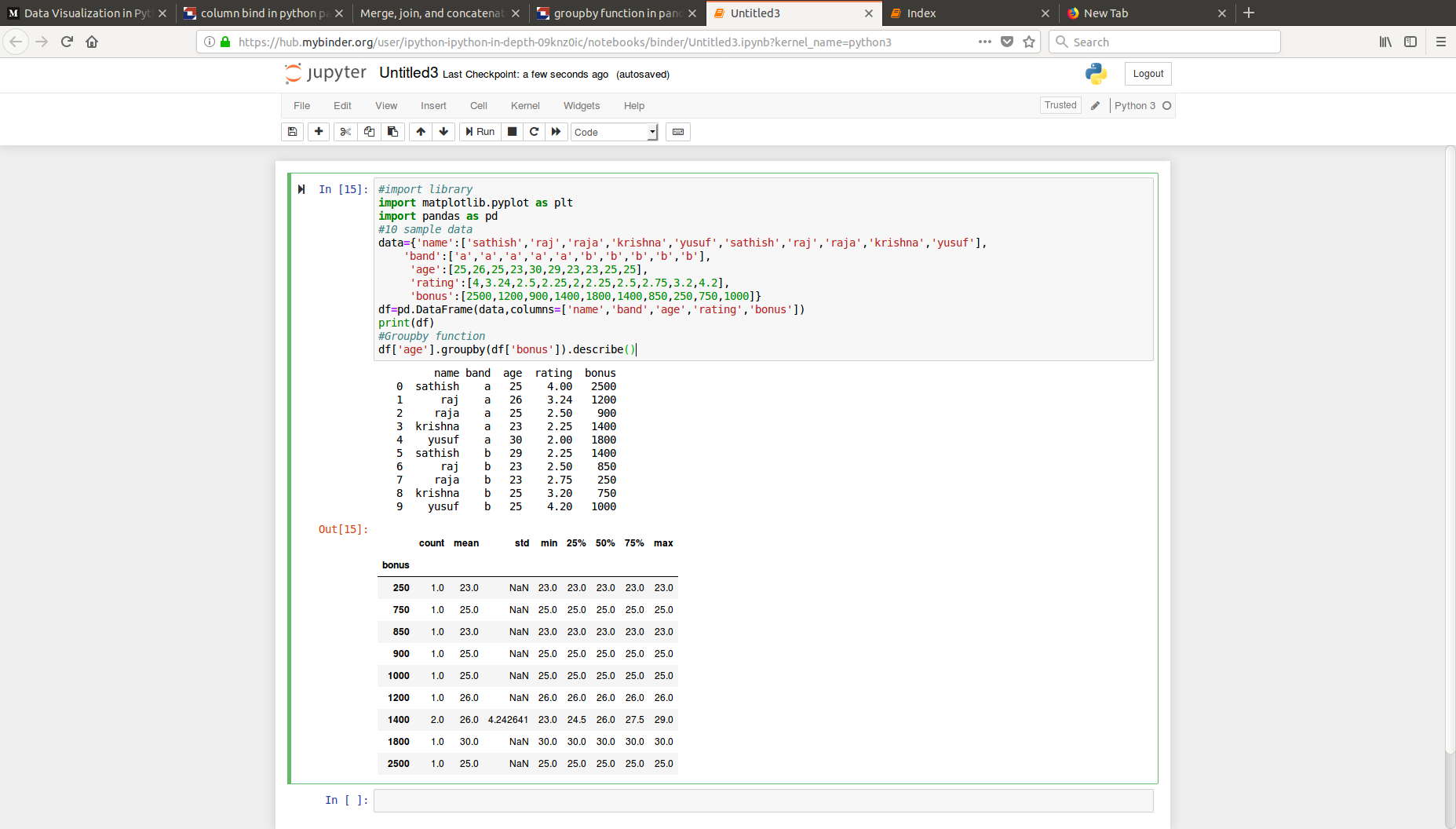
print(df)

#Groupby function

df['age'].groupby(df['bonus']).describe()

**Screen shots:**

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