**47.How to create cross table using python?**

**Objective:**

* To see how to create cross tab for given data set.

**Process:**

* Import libraries.
* Read input file.
* Defining the input variable.
* Two way cross tab.
* Three way cross tab.

**Input:**

* Sample data(xlsx file).

**Output:**

* Two way cross tab.
* Three way cross tab.

**Source code:**

#import libraries

import pandas as pd

data=pd.read\_excel('/home/soft27/soft27/Sathish/

Pythonfiles/Employee.xlsx')

print("Actual data is\n",data)

#create data frame

df=pd.DataFrame(data)

print("Two way cross tab\n")

#two way cross tab

a=pd.crosstab(df.salary, df.dept,margins=True)

print(a)

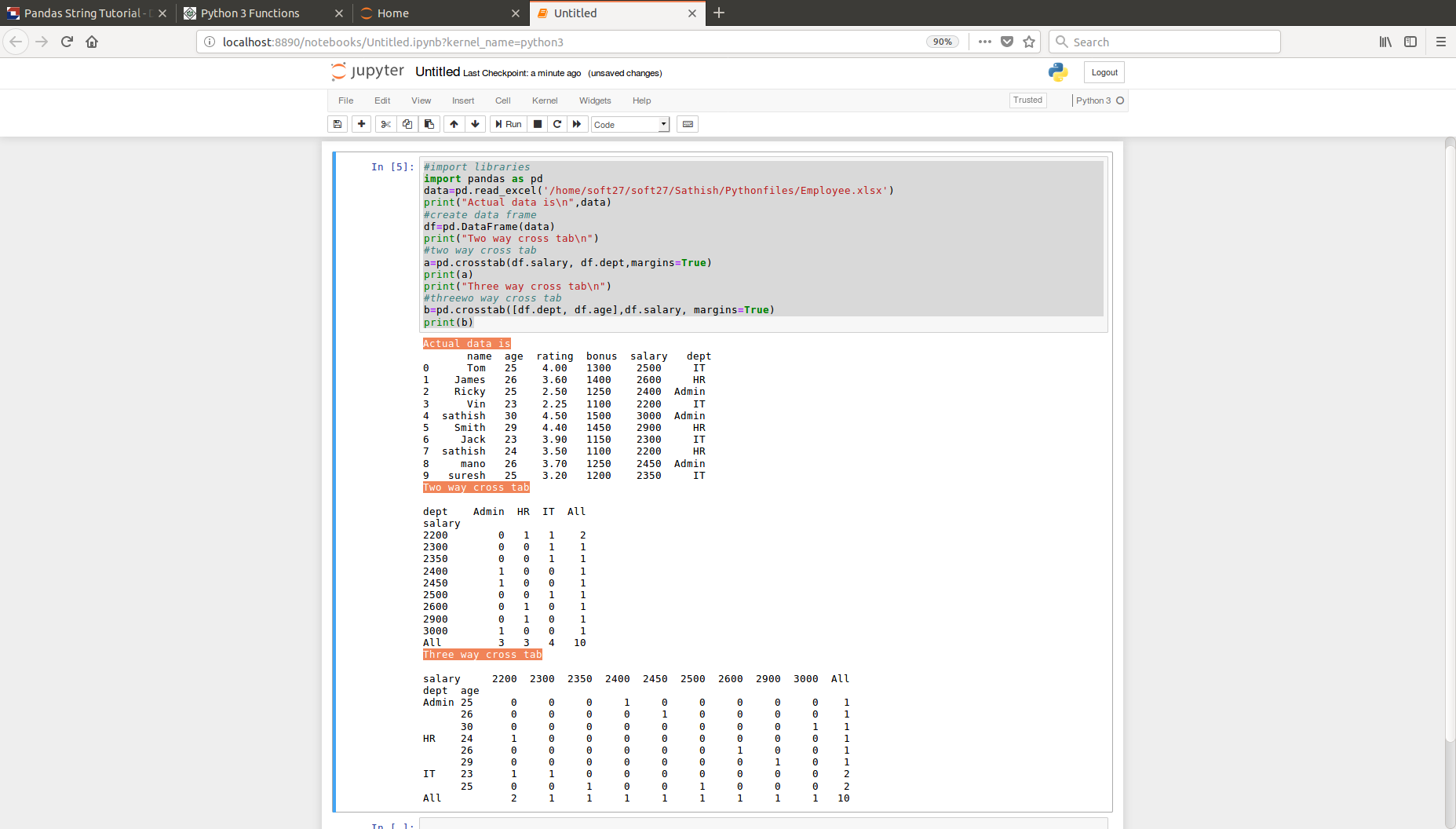
print("Three way cross tab\n")

#threewo way cross tab

b=pd.crosstab([df.dept, df.age],df.salary, margins=True)

print(b)

**Screen shots:**

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