**10 دوال من مكتبة Pandas**

**الكود:**

**import pandas as pd**

**data={**

**'Name':['Ali','Fatima','Omar'],**

**'Age':[25,22,30],**

**'City':['Sanna','Aden','Taiz']**

**}**

**df=pd.DataFrame(data)**

**print(df['Age'].apply(lambda x: x + 1))**

**print(df.query('Age > 25 and City == "Taiz"'))**

**print(df[df['City'].isin(['Sanaa', 'Aden'])])**

**print(df.sort\_values(by='Age', ascending=False))**

**print(df['City'].value\_counts())**

**print(df['City'].map({'Sanaa': 'صنعاء', 'Aden': 'عدن'}))**

**print(df.reset\_index(drop=True))**

**print(df.set\_index('Name'))**

**print(df.duplicated())**

**print(df.nunique())**

**الخرج:**

**-----------1----------------**

**0 26**

**1 23**

**2 31**

**Name: Age, dtype: int64**

**-----------2----------------**

**Name Age City**

**2 Omar 30 Taiz**

**-----------3----------------**

**Name Age City**

**1 Fatima 22 Aden**

**-----------4----------------**

**Name Age City**

**2 Omar 30 Taiz**

**0 Ali 25 Sanna**

**1 Fatima 22 Aden**

**-----------5----------------**

**City**

**Sanna 1**

**Aden 1**

**Taiz 1**

**Name: count, dtype: int64**

**-----------6----------------**

**0 NaN**

**1 عدن**

**2 NaN**

**Name: City, dtype: object**

**-----------7----------------**

**Name Age City**

**0 Ali 25 Sanna**

**1 Fatima 22 Aden**

**2 Omar 30 Taiz**

**-----------8----------------**

**Age City**

**Name**

**Ali 25 Sanna**

**Fatima 22 Aden**

**Omar 30 Taiz**

**-----------9----------------**

**0 False**

**1 False**

**2 False**

**dtype: bool**

**-----------10----------------**

**Name 3**

**Age 3**

**City 3**

**dtype: int64**