PANDAS AND DATA FRAMES

1. **EXTRACTING DATA FROM URLS**

```python
import pandas as pd
import requests

url='http://127.0.0.1:8000/users'
req=requests.get(url)
req
```

```python
json=req.json()#convert the url data into a json dictionary
```

```python
df=pd.DataFrame(json)
df.head()
```

2. **EXTRACTING DATA DIRECTLY FROM A POSTGRES DATABASE**

```python
import sqlalchemy as sa
import pandas as pd

#The connection string(USER:'postres',PASSWORD:'JULOH','HOST':'localhost',DB:'postgres')
engine = sa.create_engine('postgres://postgres:JULOH@localhost/postgres')
#initialize a connection
con = engine.connect()
#query statement
query='select * from "TotalSales"'
#create a dataframe
dfQuery = pd.read_sql(query,con=engine)
dfQuery.head()
```

3. **EXTRACTING DATA DIRECTLY FROM AN EXCEL OR CSV FILE**

```python
import numpy as np
import pandas as pd
```