# Pandas 데이터프레임 활용

Dataframe loc.ipynb

• 데이터 프레임 df 생성

```
In [1]: import pandas as pd
In [2]: d1 = {'Name': ['John', 'Jane', 'Mary'], 'ID': [1, 2, 3], 'Role': ['CEO', 'CTO', 'CFO']}
In [3]: df = pd.DataFrame(d1)
        print('DataFrame:\n', df)
        DataFrame:
            Name ID Role
        O John 1 CEO
           Jane 2 CTO
        2 Mary 3 CFO
```

• 특정 행(row) 얻기

• 특정 행집합(row) 얻기

• 단일 값 얻기

```
In [7]: jane_role = df.loc[1, 'Role']
    print(jane_role) # CTO
```

• 슬라이싱하기

• 조건에 따른 행얻기

```
In [9]: data = df.loc[df['ID'] > 1]
    print(data)

    Name ID Role
    1 Jane 2 CTO
    2 Mary 3 CFO
```

#### • 단일값 설정

```
In [10]: import pandas as pd
         d1 = {'Name': ['John', 'Jane', 'Mary'], 'ID': [1, 2, 3], 'Role': ['CEO', 'CTO', 'CFO']}
         df = pd.DataFrame(d1, index=['A', 'B', 'C'])
         print('Original DataFrame: \text{\text{\text{m}'}, df})
         # set a single value
         df.loc['B', 'Role'] = 'Editor'
         print('Updated DataFrame:\"n', df)
         Original DataFrame:
             Name ID Role
                 1 CE0
         A John
                 2 CT0
         B Jane
         C Mary 3 CFO
         Updated DataFrame:
             Name ID
                       Role
         A John 1
                        CE0
         B Jane 2 Editor
         C Mary 3
                        CF0
```