12주차 과제입니다.

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```
[4]  import pandas as pd
     raw_ca_df = pd.read_csv('/content/drive/MyDrive/12week/ca-coviddata.csv')
     raw_ca_df.head()
```

숨겨진 출력 표시

다음 단계: raw_ca_df변수로 코드 생성 추천 차트 보기

```
#ca 캘리포니아 확진자 분석
ca_total_cases = raw_ca_df[['tot_cases', 'date_updated']]
ca_dateindex_df = ca_total_cases.set_index('date_updated')
ca_dateindex_df.head()
```

date_updated	tot_cases
01/23/2020	0
01/30/2020	2
02/06/2020	8
02/13/2020	16
02/20/2020	30

다음 단계: ca_dateindex_df변수로 코드 생성 추천 차트 보기

```
[10] #tx 텍사스 확진자 분석
     raw_tx_df = pd.read_csv('/content/drive/MyDrive/12week/tx-coviddata.csv')
     tx_total_cases = raw_tx_df[['tot_cases', 'date_updated']]
     tx_dateindex_df = tx_total_cases.set_index('date_updated')
     tx_dateindex_df.head()
```

date_updated	tot_cases
01/23/2020	0
01/30/2020	0
02/06/2020	0
02/13/2020	0
02/20/2020	0

다음 단계: tx_dateindex_df변수로 코드 생성 추천 차트 보기

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```
#va 버지니아 확진자 분석
raw_va_df = pd.read_csv('/content/drive/MyDrive/12week/va-coviddata.csv')
va_total_cases = raw_va_df[['tot_cases', 'date_updated']]
va_dateindex_df = va_total_cases.set_index('date_updated')
va_dateindex_df.head()
```

date_updated	tot_cases
01/23/2020	0
01/30/2020	0
02/06/2020	0
02/13/2020	0
02/20/2020	0

다음 단계: va_dateindex_df변수로 코드 생성 추천 차트 보기

[18]
```
#il 일리노이 확진자 분석
raw_il_df = pd.read_csv('/content/drive/MyDrive/12week/il-coviddata.csv')
il_total_cases = raw_il_df[['tot_cases', 'date_updated']]
il_dateindex_df = il_total_cases.set_index('date_updated')
il_dateindex_df.head()
```

date_updated	tot_cases
01/23/2020	0
01/30/2020	1
02/06/2020	2
02/13/2020	2
02/20/2020	2

다음 단계: il_dateindex_df변수로 코드 생성 추천 차트 보기

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```
[13] #wa 워싱턴 확진자 분석
     raw_wa_df = pd.read_csv('/content/drive/MyDrive/12week/wa-coviddata.csv')
     wa_total_cases = raw_wa_df[['tot_cases', 'date_updated']]
     wa_dateindex_df = wa_total_cases.set_index('date_updated')
     wa_dateindex_df.head()
```

date_updated	tot_cases
01/23/2020	1
01/30/2020	1
02/06/2020	1
02/13/2020	1
02/20/2020	1

다음 단계: wa_dateindex_df변수로 코드 생성 | 추천 차트 보기

```
[19] #5개도시의 데이터프레임
     ca_population = 38_965_193
     tx_population = 30_000_000
     va_population = 8_654_542
     il_population = 12_600_000
     wa_population = 7_730_000

     tx_rate = round((tx_population / ca_population), 2)
     va_rate = round((va_population / ca_population), 2)
     il_rate = round((il_population / ca_population), 2)
     wa_rate = round((wa_population / ca_population), 2)
     print(tx_rate)
     print(va_rate)
     print(il_rate)
     print(wa_rate)
```

```
0.77
0.22
0.32
0.2
```

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```
[20] #index 를 datetime으로 변환
     ca_dateindex_df.index = pd.to_datetime(ca_dateindex_df.index)
     #ny_dateindex_df.index = ny_dateindex_df.index.astype('datetime64[ns]')
     tx_dateindex_df.index = pd.to_datetime(ca_dateindex_df.index)
     va_dateindex_df.index = pd.to_datetime(ca_dateindex_df.index)
     il_dateindex_df.index = pd.to_datetime(ca_dateindex_df.index)
     wa_dateindex_df.index = pd.to_datetime(ca_dateindex_df.index)
     wa_dateindex_df.index.dtype
```

```
dtype('<M8[ns]')
```

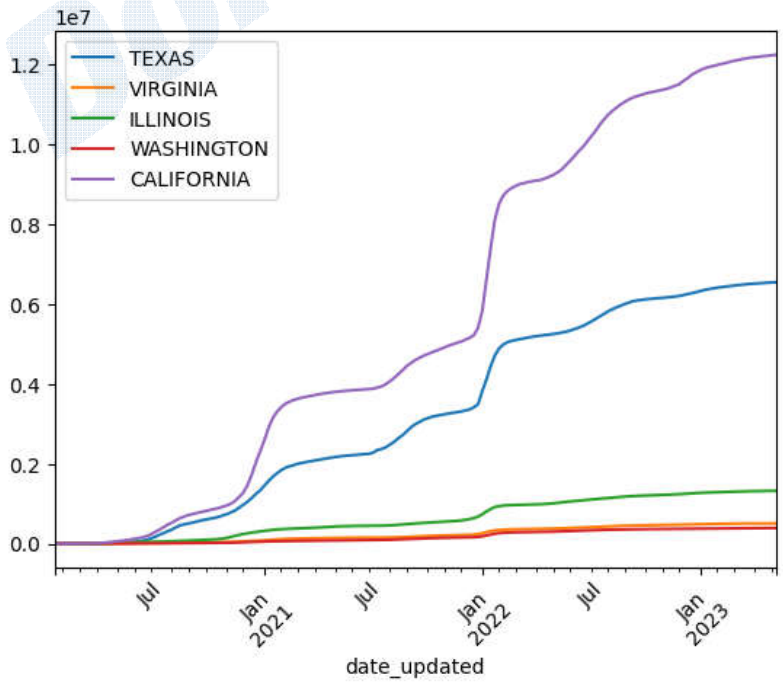
```
[21] #최종 dataframe
     final_df = pd.concat([tx_dateindex_df * tx_rate,
                           va_dateindex_df * va_rate,
                           il_dateindex_df * il_rate,
                           wa_dateindex_df * wa_rate, ca_dateindex_df], axis=1)
     final_df.columns = ['TEXAS', 'VIRGINIA', 'ILLINOIS', 'WASHINGTON', 'CALIFORNIA']
     final_df.head()
```

date_updated	TEXAS	VIRGINIA	ILLINOIS	WASHINGTON	CALIFORNIA
2020-01-23	0.0	0.0	0.00	0.2	0
2020-01-30	0.0	0.0	0.32	0.2	2
2020-02-06	0.0	0.0	0.64	0.2	8
2020-02-13	0.0	0.0	0.64	0.2	16
2020-02-20	0.0	0.0	0.64	0.2	30

다음 단계: final_df변수로 코드 생성 추천 차트 보기

```
final_df.plot.line(rot=45)
```

```
<Axes: xlabel='date_updated'>
```



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