

In [1]:

```

1 import pandas as pd
2 import numpy as np
3 import matplotlib.pyplot as plt
4 import seaborn as sns
5 from matplotlib import font_manager,rc
6

```

In [7]:

```

1 plt.rc("font", family="Malgun Gothic")
2
3 corona=pd.read_csv("대구광역시_코로나19 일일검사자_20211030.csv",encoding
4 corona.info()

```

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 617 entries, 0 to 616

Data columns (total 3 columns):

#	Column	Non-Null Count	Dtype
0	일자	617 non-null	object
1	검사건수	617 non-null	int64
2	기준	617 non-null	object

dtypes: int64(1), object(2)

memory usage: 14.6+ KB

In [9]:

```

1 corona['검사건수'].value_counts()

```

```

364      3
570      2
404      2
1020     2
142      2
..
326      1
349      1
251      1
293      1
7389     1

```

Name: 검사건수, Length: 587, dtype: int64

In [10]:

```
1 corona.describe()
```

검사건수

count	617.000000
mean	3895.113452
std	3788.394190
min	64.000000
25%	574.000000
50%	2268.000000
75%	6706.000000
max	17589.000000

In [22]:

```
1 print(corona['검사건수'].mean())
2 print(corona['검사건수'].min())
3 print(corona['검사건수'].max())
4 print(corona['검사건수'].std())
```

```
3895.1134521880067
64
17589
3788.394189601844
```

In [32]:

```
1 result = corona['검사건수'].agg(['mean', 'min', 'max', 'std'])
2 result
```

mean	3895.113452
min	64.000000
max	17589.000000
std	3788.394190
Name:	검사건수, dtype: float64

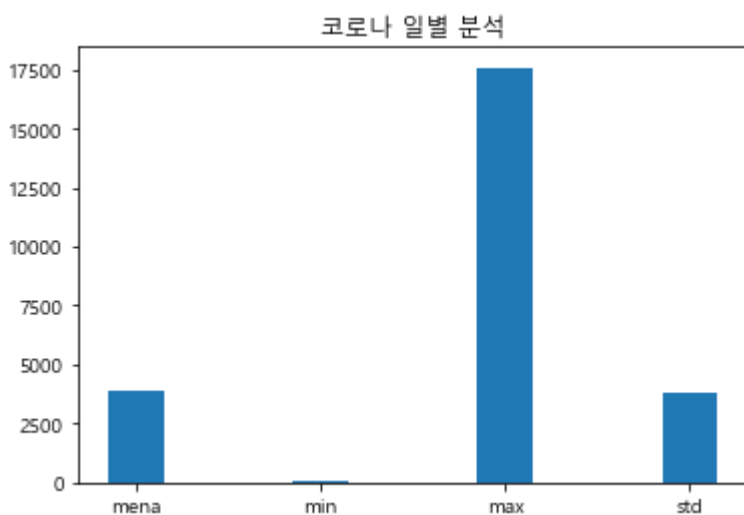
In [41]:

```
1 result.index.tolist()
```

```
['mean', 'min', 'max', 'std']
```

In [52]:

```
1 data=[corona['검사건수'].mean(),
2       corona['검사건수'].min(),
3       corona['검사건수'].max(),
4       corona['검사건수'].std()]
5 x = ['mena', 'min', 'max', 'std']
6 plt.bar(x,data,width=0.3)
7 plt.title('코로나 일별 분석')
8 plt.show()
```



In [55]:

```
1 corona['일자']=pd.to_datetime(corona['일자'], format='%Y-%m-%d')
```

In [66]:

```
1 MON =corona.query( '일자.dt.dayofweek == 0' ).mean( )
2 TUE =corona.query( '일자.dt.dayofweek == 1' ).mean( )
3 WED =corona.query( '일자.dt.dayofweek == 2' ).mean( )
4 THU =corona.query( '일자.dt.dayofweek == 3' ).mean( )
5 FRI =corona.query( '일자.dt.dayofweek == 4' ).mean( )
6 SAT =corona.query( '일자.dt.dayofweek == 5' ).mean( )
7 SUN =corona.query( '일자.dt.dayofweek == 6' ).mean( )
8
9 data1=[MON,TUE,WED,THU,FRI,SAT,SUN]
10 x1 = [ 'MON', 'TUE', 'WED', 'THU', 'FRI', 'SAT', 'SUN' ]
11 plt.bar(x1,data1,width=0.3)
12 plt.title('코로나 요일별 평균')
13 plt.show( )
14
```

```
SUN =corona.query( '일자.dt.dayofweek == 6' ).mean( )
```

In []:

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In [68]:

```

1
2 data1=[MON,TUE,WED,THU,FRI,SAT,SUN]
3 x1 = ['MON','TUE','WED','THU','FRI','SAT','SUN']
4 plt.bar(x1,data1,width=0.3)
5 plt.title('코로나 요일별 평균')
6 plt.show()
7

```

TypeError

Traceback (most recent call last)

~\AppData\Local\Temp\ipykernel_4568\1570763539.py in <module>

```

1 data1=[MON,TUE,WED,THU,FRI,SAT,SUN]
2 x1 = ['MON','TUE','WED','THU','FRI','SAT','SUN']
----> 3 plt.bar(x1,data1,width=0.3)
4 plt.title('코로나 요일별 평균')
5 plt.show()

```

~\anaconda3\lib\site-packages\matplotlib\pyplot.py in bar(x, height, width, bottom, a

```

2649         x, height, width=0.8, bottom=None, *, align='center',
2650         data=None, **kwargs):
-> 2651     return gca().bar(
2652         x, height, width=width, bottom=bottom, align=align,
2653         **({"data": data} if data is not None else {}), **kwargs)

```

~\anaconda3\lib\site-packages\matplotlib__init__.py in inner(ax, data, *args, **kwargs)

```

1359     def inner(ax, *args, data=None, **kwargs):
1360         if data is None:
-> 1361             return func(ax, *map(sanitize_sequence, args), **kwargs)
1362
1363         bound = new_sig.bind(ax, *args, **kwargs)

```

~\anaconda3\lib\site-packages\matplotlib\axes_axes.py in bar(self, x, height, width,

```

2355             hatch)
2356         for l, b, w, h, c, lw, htch in args:
-> 2357             r = mpatches.Rectangle(
2358                 xy=(l, b), width=w, height=h,
2359                 facecolor=c,

```

~\anaconda3\lib\site-packages\matplotlib\patches.py in __init__(self, xy, width, height)

```

750         %(Patch_kwdoc)s
751         """
-> 752     super().__init__(**kwargs)
753     self._x0 = xy[0]
754     self._y0 = xy[1]

```

```

~\anaconda3\lib\site-packages\matplotlib\patches.py in __init__(self, edgecolor, facecolor,
id, linestyle, antialiased, hatch, fill, capstyle, joinstyle, **kwargs)
    99         self.set_fill(fill)
   100         self.set_linestyle(linestyle)
--> 101         self.set_linewidth(linewidth)
   102         self.set_antialiased(antialiased)
   103         self.set_hatch(hatch)

~\anaconda3\lib\site-packages\matplotlib\patches.py in set_linewidth(self, w)
   404         w = mpl.rcParams['axes.linewidth']
   405
--> 406         self._linewidth = float(w)
   407         # scale the dash pattern by the linewidth
   408         offset, ls = self._us_dashes

```

TypeError: only size-1 arrays can be converted to Python scalars



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