

국민연금공단_해외주식 투자정보_20201231

In [122]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

plt.rc("font", family="Malgun Gothic")
file_path='../data/stock_super.csv'
stock=pd.read_csv(file_path, encoding='CP949')
stock.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3463 entries, 0 to 3462
Data columns (total 5 columns):
#   Column                Non-Null Count  Dtype
---  -
0   번호                  3463 non-null   int64
1   종목명                3463 non-null   object
2   평가액(억원)         3463 non-null   float64
3   자산군 내 비중(%)     3463 non-null   float64
4   지분율(%)            3463 non-null   float64
dtypes: float64(3), int64(1), object(1)
memory usage: 135.4+ KB
```

In [123]:

```
stock.head(10)
```

Out [123]:

	번호	종목명	평가액(억원)	자산군 내 비중(%)	지분율(%)
0	1	APPLE INC	50237.39	2.61	0.20
1	2	MICROSOFT CORP	43004.50	2.23	0.24
2	3	AMAZON.COM INC	38917.92	2.02	0.22
3	4	FACEBOOK INC CLASS A	24096.60	1.25	0.34
4	5	TESLA INC	22223.83	1.15	0.31
5	6	ALPHABET INC CL C	21603.63	1.12	0.34
6	7	ALPHABET INC CL A	18555.28	0.96	0.32
7	8	TENCENT HOLDINGS LTD	18449.22	0.96	0.24
8	9	TAIWAN SEMICONDUCTOR SP ADR	15604.99	0.81	0.25
9	10	ALIBABA GROUP HOLDING SP ADR	15587.03	0.81	0.23

In [124]:

```
stock.describe()
```

Out [124]:

	번호	평가액(억원)	자산군 내 비중(%)	지분율(%)
count	3463.000000	3463.000000	3463.000000	3463.000000
mean	1732.000000	547.237072	0.027626	0.186549
std	999.826318	1947.146229	0.101289	0.439109
min	1.000000	10.010000	0.000000	0.000000
25%	866.500000	24.185000	0.000000	0.050000
50%	1732.000000	61.060000	0.000000	0.110000
75%	2597.500000	379.800000	0.020000	0.220000
max	3463.000000	50237.390000	2.610000	21.210000

종목당 평균 투자금액

In [125]:

```
stock['평가액(억원)'].mean()
```

Out [125]:

547.2370719029757

- 가장 적은 금액을 투자한 종목

In [126]:

```
stock.sort_values(by='평가액(억원)', ascending=True)[:1]
```

Out [126]:

	번호	종목명	평가액(억원)	자산군 내 비중(%)	지분율(%)
3462	3463	GULF BANK	10.01	0.0	0.04

- 총 몇개의 종목에 투자했는가?

In [127]:

```
stock['번호'].count()
```

Out [127]:

3463

In [128]:

```
label=stock['평가액(억원)'].head(10)
money=label.values.tolist()
money
```

Out [128]:

```
[50237.39,
 43004.5,
 38917.92,
 24096.6,
 22223.83,
 21603.63,
 18555.28,
 18449.22,
 15604.99,
 15587.03]
```

In [129]:

```
top_asset=stock.sort_values(by='지분율(%)',ascending=False)[:10]
top_company=top_asset['종목명']
Top_company=top_company.values.tolist()
Top_company
```

Out [129]:

```
['ISHARES MSCI SPAIN ETF',
 'LYXOR FTSE MIB UCITS ETF',
 'LYXOR CAC 40 DR UCITS ETF',
 'ISHARES S&P/TSX 60 INDEX ETF',
 'SEAWORLD ENTERTAINMENT INC',
 'ISS A/S',
 'INCITEC PIVOT LTD',
 'TENET HEALTHCARE CORP',
 'TRADEWEB MARKETS INC CLASS A',
 'TRAVIS PERKINS PLC']
```

In [130]:

```
aa=top_asset['지분율(%)'].values.tolist()
aa
```

Out [130]:

```
[21.21, 6.05, 5.19, 3.05, 2.97, 2.44, 2.38, 2.14, 1.91, 1.68]
```

Top10 지분율 구해보기

In [131]:

```
company=fracs=stock['종목명'].head(10).values.tolist()
x_pos=np.arange(0,len(company),1)
```

In [132]:

```

colors = sns.color_palette('Set2', len(company))
plt.bar(Top_company, aa, align='center', alpha=0.7, color=colors)

plt.ylabel('지분율(%)')
plt.xlabel('종목명')
plt.title('Top 10 지분율 종목')

ax=plt.subplot()
ax.set_xticks(x_pos)
ax.set_xticklabels(Top_company, rotation=90)

```

Out [132]:

```

[Text(0, 0, 'ISHARES MSCI SPAIN ETF'),
 Text(1, 0, 'LYXOR FTSE MIB UCITS ETF'),
 Text(2, 0, 'LYXOR CAC 40 DR UCITS ETF'),
 Text(3, 0, 'ISHARES S&P/TSX 60 INDEX ETF'),
 Text(4, 0, 'SEAWORLD ENTERTAINMENT INC'),
 Text(5, 0, 'ISS A/S'),
 Text(6, 0, 'INCITEC PIVOT LTD'),
 Text(7, 0, 'TENET HEALTHCARE CORP'),
 Text(8, 0, 'TRADEWEB MARKETS INC CLASS A'),
 Text(9, 0, 'TRAVIS PERKINS PLC')]

```



국민연금공단의 Top10 투자 종목

In [133]:

```

colors = sns.color_palette('hls',len(company))
plt.bar(company,money,align='center', alpha=0.7,color=colors)

plt.ylabel('평가액(억원)')
plt.xlabel('종목명')
plt.title('국민연금공단_해외주식 투자정보_20201231')

ax=plt.subplot()
ax.set_xticks(x_pos)
ax.set_xticklabels(company,rotation=90)

```

Out [133]:

```

[Text(0, 0, 'APPLE INC'),
 Text(1, 0, 'MICROSOFT CORP'),
 Text(2, 0, 'AMAZON.COM INC'),
 Text(3, 0, 'FACEBOOK INC CLASS A'),
 Text(4, 0, 'TESLA INC'),
 Text(5, 0, 'ALPHABET INC CL C'),
 Text(6, 0, 'ALPHABET INC CL A'),
 Text(7, 0, 'TENCENT HOLDINGS LTD'),
 Text(8, 0, 'TAIWAN SEMICONDUCTOR SP ADR'),
 Text(9, 0, 'ALIBABA GROUP HOLDING SP ADR')]

```



