

HOU

February 12, 2024

```
[ ]: import plotly.graph_objs as go
import matplotlib.pyplot as plt
from gql import gql, Client
from gql.transport.requests import RequestsHTTPTransport
import pandas as pd
import seaborn as sns
import matplotlib.ticker as ticker
```

/tmp/ipykernel_692741/3769683706.py:5: DeprecationWarning:
Pyarrow will become a required dependency of pandas in the next major release of pandas (pandas 3.0),
(to allow more performant data types, such as the Arrow string type, and better interoperability with other libraries)
but was not found to be installed on your system.
If this would cause problems for you,
please provide us feedback at <https://github.com/pandas-dev/pandas/issues/54466>

```
import pandas as pd
```

```
[ ]: # Setup the transport and client
_transport = RequestsHTTPTransport(
    url='http://127.0.0.1:8000/graphql/',
    use_json=True,
)

client = Client(
    transport = _transport,
    fetch_schema_from_transport=True,
)

# Define Query
query = gql('''
query playerPositions {
  playerTotalsAll {
    position
    season
    id
  }
}
```

```

}
''')

# Execute and store response

response = client.execute(query)

print(response)

```

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```
[ ]: df = pd.DataFrame(response['playerTotalsAll'])

df_grouped = df.groupby(['season', 'position']).size().
    ↪reset_index(name='counts')

pivot_table = df_grouped.pivot(index='season', columns='position',
    ↪values='counts')

# create a function for formatter
fmt = lambda x, pos: '{:.0f}'.format(x)

# Heatmap

plt.figure(figsize=(10,8))
sns.heatmap(pivot_table, annot=True, cmap="YlGnBu", fmt='%.0f',
            cbar_kws={'format': ticker.FuncFormatter(fmt)})
plt.title('Count of players in each position per season')

plt.show()
```

