

# Pandas Essential Training

```
In [ ]: import pandas as pd
```

```
In [270... import seaborn as sns
import matplotlib.pyplot as plt
```

```
In [2]: df=pd.read_csv('/Users/swapnilthorat/Desktop/DA/Python/Ex_Files_Pandas_EssT/ExerciseFiles/data/olympics.csv', s
```

```
In [3]: df.head()
```

```
Out[3]:
```

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
0	Athens	1896	Aquatics	Swimming	HAJOS, Alfred	HUN	Men	100m freestyle	M	Gold
1	Athens	1896	Aquatics	Swimming	HERSCHMANN, Otto	AUT	Men	100m freestyle	M	Silver
2	Athens	1896	Aquatics	Swimming	DRIVAS, Dimitrios	GRE	Men	100m freestyle for sailors	M	Bronze
3	Athens	1896	Aquatics	Swimming	MALOKINIS, Ioannis	GRE	Men	100m freestyle for sailors	M	Gold
4	Athens	1896	Aquatics	Swimming	CHASAPIS, Spiridon	GRE	Men	100m freestyle for sailors	M	Silver

```
In [4]: df.tail()
```

```
Out[4]:
```

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
29211	Beijing	2008	Wrestling	Wrestling Gre-R	ENGLISH, Mirko	GER	Men	84 - 96kg	M	Silver
29212	Beijing	2008	Wrestling	Wrestling Gre-R	MIZGAITIS, Mindaugas	LTU	Men	96 - 120kg	M	Bronze
29213	Beijing	2008	Wrestling	Wrestling Gre-R	PATRIKEEV, Yuri	ARM	Men	96 - 120kg	M	Bronze
29214	Beijing	2008	Wrestling	Wrestling Gre-R	LOPEZ, Mijain	CUB	Men	96 - 120kg	M	Gold
29215	Beijing	2008	Wrestling	Wrestling Gre-R	BAROEV, Khasan	RUS	Men	96 - 120kg	M	Silver

```
In [5]: df['NOC']
```

```
Out[5]: 0      HUN
        1      AUT
        2      GRE
        3      GRE
        4      GRE
        ...
        29211  GER
        29212  LTU
        29213  ARM
        29214  CUB
        29215  RUS
        Name: NOC, Length: 29216, dtype: object
```

```
In [57]: df.NOC
```

```
Out[57]: 0      HUN
        1      AUT
        2      GRE
        3      GRE
        4      GRE
        ...
        29211  GER
        29212  LTU
        29213  ARM
        29214  CUB
        29215  RUS
        Name: NOC, Length: 29216, dtype: object
```

```
In [49]: type(df.NOC)
```

```
Out[49]: pandas.core.series.Series
```

```
In [54]: df[['Edition', 'City', 'Athlete', 'Medal']]
```

```
Out[54]:
```

	Edition	City	Athlete	Medal
0	1896	Athens	HAJOS, Alfred	Gold
1	1896	Athens	HERSCHMANN, Otto	Silver
2	1896	Athens	DRIVAS, Dimitrios	Bronze

	Edition	City	Athlete	Medal
3	1896	Athens	MALOKINIS, Ioannis	Gold
4	1896	Athens	CHASAPIS, Spiridon	Silver
...	...	...	...	...
29211	2008	Beijing	ENGLICH, Mirko	Silver
29212	2008	Beijing	MIZGAITIS, Mindaugas	Bronze
29213	2008	Beijing	PATRIKEEV, Yuri	Bronze
29214	2008	Beijing	LOPEZ, Mijain	Gold
29215	2008	Beijing	BAROEV, Khasan	Silver

29216 rows × 4 columns

```
In [55]: type(df[['Edition', 'City', 'Athlete', 'Medal']])
```

```
Out[55]: pandas.core.frame.DataFrame
```

```
In [65]: df.shape
```

```
Out[65]: (29216, 10)
```

```
In [67]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 29216 entries, 0 to 29215
Data columns (total 10 columns):
#   Column          Non-Null Count  Dtype
---  -
0   City             29216 non-null  object
1   Edition          29216 non-null  int64
2   Sport            29216 non-null  object
3   Discipline       29216 non-null  object
4   Athlete          29216 non-null  object
5   NOC              29216 non-null  object
6   Gender           29216 non-null  object
7   Event            29216 non-null  object
8   Event_gender     29216 non-null  object
```

```
9 Medal 29216 non-null object
dtypes: int64(1), object(9)
memory usage: 2.2+ MB
```

## Basic Analysis

Value\_counts()

```
In [75]: df.Edition.value_counts(ascending=False)
```

```
Out[75]: 2008    2042
2000    2015
2004    1998
1996    1859
1992    1705
1988    1546
1984    1459
1980    1387
1976    1305
1920    1298
1972    1185
1968    1031
1964    1010
1952     889
1956     885
1912     885
1924     884
1960     882
1936     875
1948     814
1908     804
1928     710
1932     615
1900     512
1904     470
1896     151
Name: Edition, dtype: int64
```

```
In [76]: df.Gender.value_counts(ascending=True, dropna = False)
```

```
Out[76]: Women    7495
Men    21721
Name: Gender, dtype: int64
```

Sort\_Values()

```
In [77]: df.sort_values(['Athlete'])
```

Out[77]:

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
651	Paris	1900	Tug of War	Tug of War	AABYE, Edgar	ZZX	Men	tug of war	M	Gold
2849	Antwerp	1920	Aquatics	Swimming	AALTONEN, Arvo Ossian	FIN	Men	200m breaststroke	M	Bronze
2852	Antwerp	1920	Aquatics	Swimming	AALTONEN, Arvo Ossian	FIN	Men	400m breaststroke	M	Bronze
7716	London	1948	Gymnastics	Artistic G.	AALTONEN, Paavo Johannes	FIN	Men	pommel horse	M	Gold
7730	London	1948	Gymnastics	Artistic G.	AALTONEN, Paavo Johannes	FIN	Men	team competition	M	Gold
...	...	...	...	...	...	...	...	...	...	...
603	Paris	1900	Shooting	Shooting	ÖSTMO, Ole	NOR	Men	army rifle, 300m, prone	M	Bronze
608	Paris	1900	Shooting	Shooting	ÖSTMO, Ole	NOR	Men	army rifle, 300m, standing	M	Silver
621	Paris	1900	Shooting	Shooting	ÖSTMO, Ole	NOR	Men	free rifle, team	M	Silver
596	Paris	1900	Shooting	Shooting	ÖSTMO, Ole	NOR	Men	army rifle, 300m, 3 positions	M	Bronze
8051	Helsinki	1952	Aquatics	Swimming	ÖSTRAND, Per-Olof	SWE	Men	400m freestyle	M	Bronze

29216 rows × 10 columns

```
In [79]: df.City.sort_values
```

Out[79]:

<bound method Series.sort_values of 0	Athens
1	Athens
2	Athens
3	Athens
4	Athens
...	...
29211	Beijing
29212	Beijing
29213	Beijing

```
29214    Beijing
29215    Beijing
Name: City, Length: 29216, dtype: object>
```

```
In [192... df1= df.sort_values(by=['Edition', 'NOC', 'Sport', 'Athlete'])
```

```
In [86]: df1.head(151)
```

Out[86]:

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
7	Athens	1896	Aquatics	Swimming	ANDREOU, Joannis	GRE	Men	1200m freestyle	M	Silver
82	Athens	1896	Gymnastics	Artistic G.	ANDRIAKOPOULOS, Nicolaos	GRE	Men	rope climbing	M	Gold
110	Athens	1896	Gymnastics	Artistic G.	ANDRIAKOPOULOS, Nicolaos	GRE	Men	team, parallel bars	M	Silver
111	Athens	1896	Gymnastics	Artistic G.	ATHANASOPOULOS, Spyros	GRE	Men	team, parallel bars	M	Silver
48	Athens	1896	Cycling	Cycling Road	BATTEL, Edward	GBR	Men	individual road race	M	Bronze
...	...	...	...	...	...	...	...	...	...	...
83	Athens	1896	Gymnastics	Artistic G.	XENAKIS, Thomasios	GRE	Men	rope climbing	M	Silver
113	Athens	1896	Gymnastics	Artistic G.	XENAKIS, Thomasios	GRE	Men	team, parallel bars	M	Silver
75	Athens	1896	Gymnastics	Artistic G.	ZUTTER, Louis	SUI	Men	parallel bars	M	Silver
76	Athens	1896	Gymnastics	Artistic G.	ZUTTER, Louis	SUI	Men	pommel horse	M	Gold
116	Athens	1896	Gymnastics	Artistic G.	ZUTTER, Louis	SUI	Men	vault	M	Silver

151 rows x 10 columns

Boolean Indexing

```
In [88]: df.Medal=='Gold'
```

Out[88]:

0	True
1	False
2	False
3	True
4	False
...	...
29211	False

```
29212    False
29213    False
29214     True
29215    False
Name: Medal, Length: 29216, dtype: bool
```

```
In [89]: df[df.Medal=='Gold']
```

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
0	Athens	1896	Aquatics	Swimming	HAJOS, Alfred	HUN	Men	100m freestyle	M	Gold
3	Athens	1896	Aquatics	Swimming	MALOKINIS, Ioannis	GRE	Men	100m freestyle for sailors	M	Gold
6	Athens	1896	Aquatics	Swimming	HAJOS, Alfred	HUN	Men	1200m freestyle	M	Gold
9	Athens	1896	Aquatics	Swimming	NEUMANN, Paul	AUT	Men	400m freestyle	M	Gold
13	Athens	1896	Athletics	Athletics	BURKE, Thomas	USA	Men	100m	M	Gold
...	...	...	...	...	...	...	...	...	...	...
29199	Beijing	2008	Wrestling	Wrestling Gre-R	GUENOT, Steeve	FRA	Men	60 - 66kg	M	Gold
29203	Beijing	2008	Wrestling	Wrestling Gre-R	KVIRKELIA, Manuchar	GEO	Men	66 - 74kg	M	Gold
29206	Beijing	2008	Wrestling	Wrestling Gre-R	MINGUZZI, Andrea	ITA	Men	74 - 84kg	M	Gold
29210	Beijing	2008	Wrestling	Wrestling Gre-R	KHUSHTOV, Aslanbek	RUS	Men	84 - 96kg	M	Gold
29214	Beijing	2008	Wrestling	Wrestling Gre-R	LOPEZ, Mijain	CUB	Men	96 - 120kg	M	Gold

9850 rows × 10 columns

String Handling

- 1. series.str.contains()
- 2. series.str.startswith()
- 3. series.str.isnumeric()

```
In [7]:
```

```
df[df.Athlete.str.contains('Florence')]
```

Out[7]:

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
1843	London	1908	Skating	Figure skating	SYERS, Florence	GBR	Women	individual	W	Gold
1848	London	1908	Skating	Figure skating	SYERS, Florence	GBR	Women	pairs	X	Bronze
4173	Paris	1924	Aquatics	Swimming	BARKER, Florence	GBR	Women	4x100m freestyle relay	W	Silver
8162	Helsinki	1952	Athletics	Athletics	FOULDS-PAUL, June Florence	GBR	Women	4x100m relay	W	Bronze
9060	Melbourne / Stockholm	1956	Athletics	Athletics	FOULDS-PAUL, June Florence	GBR	Women	4x100m relay	W	Silver
10849	Tokyo	1964	Athletics	Athletics	AMOORE-POLLOCK, Judith Florence	AUS	Women	400m	W	Bronze
16817	Los Angeles	1984	Athletics	Athletics	GRIFFITH-JOYNER, Florence	USA	Women	200m	W	Silver
18287	Seoul	1988	Athletics	Athletics	GRIFFITH-JOYNER, Florence	USA	Women	100m	W	Gold
18305	Seoul	1988	Athletics	Athletics	GRIFFITH-JOYNER, Florence	USA	Women	200m	W	Gold
18347	Seoul	1988	Athletics	Athletics	GRIFFITH-JOYNER, Florence	USA	Women	4x100m relay	W	Gold
18374	Seoul	1988	Athletics	Athletics	GRIFFITH-JOYNER, Florence	USA	Women	4x400m relay	W	Silver

In [17]:

```
djo= df[df.Athlete.str.contains('OWENS')]
djo
```

Out[17]:

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
6427	Berlin	1936	Athletics	Athletics	OWENS, Jesse	USA	Men	100m	M	Gold
6439	Berlin	1936	Athletics	Athletics	OWENS, Jesse	USA	Men	200m	M	Gold
6456	Berlin	1936	Athletics	Athletics	OWENS, Jesse	USA	Men	4x100m relay	M	Gold



	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
<b>6523</b>	Berlin	1936	Athletics	Athletics	OWENS, Jesse	USA	Men	long jump	M	Gold

```
In [19]: djo.Event.value_counts()
```

```
Out[19]: 4x100m relay    1
long jump          1
100m               1
200m               1
Name: Event, dtype: int64
```

```
In [24]: df.Sport.value_counts()
```

```
Out[24]: Aquatics          3828
Athletics          3448
Rowing             2523
Gymnastics         2214
Fencing            1547
Football           1387
Hockey             1325
Wrestling          1140
Shooting           1105
Sailing            1061
Cycling            1025
Canoe / Kayak      1002
Basketball          940
Volleyball          910
Equestrian          894
Handball            886
Boxing              842
Weightlifting       548
Judo                435
Baseball            335
Archery             305
Tennis              272
Rugby               192
Softball            180
Modern Pentathlon   174
Badminton           120
Table Tennis        120
Tug of War          94
Taekwondo           80
Polo                66
Lacrosse            59
```

Golf 30  
Skating 27  
Ice Hockey 27  
Cricket 24  
Triathlon 18  
Rackets 10  
Croquet 8  
Water Motorsports 5  
Basque Pelota 4  
Roque 3  
Jeu de paume 3  
Name: Sport, dtype: int64

In [35]:

```
bgm = df[(df.Medal == 'Gold') & (df.Gender == 'Men') & (df.Sport == 'Badminton')]  
bgm.sort_values(by = 'Athlete')
```

Out[35]:

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
20045	Barcelona	1992	Badminton	Badminton	BUDI KUSUMA, Alan	INA	Men	singles	M	Gold
23701	Sydney	2000	Badminton	Badminton	GUNAWAN, Tony	INA	Men	doubles	M	Gold
25718	Athens	2004	Badminton	Badminton	HA, Tae-Kwon	KOR	Men	doubles	M	Gold
25734	Athens	2004	Badminton	Badminton	HIDAYAT, Taufik	INA	Men	singles	M	Gold
21787	Atlanta	1996	Badminton	Badminton	HOYER-LARSEN, Poul Erik	DEN	Men	singles	M	Gold
23717	Sydney	2000	Badminton	Badminton	Ji, Xinpeng	CHN	Men	singles	M	Gold
27725	Beijing	2008	Badminton	Badminton	KIDO, Markis	INA	Men	doubles	M	Gold
25719	Athens	2004	Badminton	Badminton	KIM, Dong Moon	KOR	Men	doubles	M	Gold
21773	Atlanta	1996	Badminton	Badminton	KIM, Dong Moon	KOR	Men	doubles	X	Gold
20031	Barcelona	1992	Badminton	Badminton	KIM, Moon-Soo	KOR	Men	doubles	M	Gold
27727	Beijing	2008	Badminton	Badminton	LEE, Yongdae	KOR	Men	doubles	X	Gold
27741	Beijing	2008	Badminton	Badminton	LIN, Dan	CHN	Men	singles	M	Gold
21771	Atlanta	1996	Badminton	Badminton	MAINAKY, Remy Ronald	INA	Men	doubles	M	Gold
20032	Barcelona	1992	Badminton	Badminton	PARK, Joo-Bong	KOR	Men	doubles	M	Gold
27726	Beijing	2008	Badminton	Badminton	SETIAWAN, Hendra	INA	Men	doubles	M	Gold
21772	Atlanta	1996	Badminton	Badminton	SUBAGJA, Ricky Achmad	INA	Men	doubles	M	Gold

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
23702	Sydney	2000	Badminton	Badminton	WIJAYA, Candra	INA	Men	doubles	M	Gold
25720	Athens	2004	Badminton	Badminton	ZHANG, Jun	CHN	Men	doubles	X	Gold
23703	Sydney	2000	Badminton	Badminton	ZHANG, Jun	CHN	Men	doubles	X	Gold

In [27]:

```
df.head()
```

Out[27]:

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
0	Athens	1896	Aquatics	Swimming	HAJOS, Alfred	HUN	Men	100m freestyle	M	Gold
1	Athens	1896	Aquatics	Swimming	HERSCHMANN, Otto	AUT	Men	100m freestyle	M	Silver
2	Athens	1896	Aquatics	Swimming	DRIVAS, Dimitrios	GRE	Men	100m freestyle for sailors	M	Bronze
3	Athens	1896	Aquatics	Swimming	MALOKINIS, Ioannis	GRE	Men	100m freestyle for sailors	M	Gold
4	Athens	1896	Aquatics	Swimming	CHASAPIS, Spiridon	GRE	Men	100m freestyle for sailors	M	Silver

In [40]:

```
df[df.Edition >= 1984].NOC.value_counts().head(5)
```

Out[40]:

```
USA    1837
AUS     762
GER     691
CHN     679
RUS     638
Name: NOC, dtype: int64
```

- Display the male Gold medal winners for the 100m track & field sprint event over the years. List the result starting with the most recent. Show the olympic city, edition, athlete and the country they represent.

In [46]:

```
gmh = df[(df.Gender == 'Men') & (df.Medal == 'Gold') & (df.Event == '100m')]
gmh.sort_values('Edition',ascending=False)[['City','Edition','Athlete','NOC']]
```

Out[46]:

	City	Edition	Athlete	NOC
27552	Beijing	2008	BOLT, Usain	JAM
25539	Athens	2004	GATLIN, Justin	USA

	City	Edition	Athlete	NOC
<b>23521</b>	Sydney	2000	GREENE, Maurice	USA
<b>21598</b>	Atlanta	1996	BAILEY, Donovan	CAN
<b>19859</b>	Barcelona	1992	CHRISTIE, Linford	GBR
<b>18284</b>	Seoul	1988	LEWIS, Carl	USA
<b>16794</b>	Los Angeles	1984	LEWIS, Carl	USA
<b>15374</b>	Moscow	1980	WELLS, Allan	GBR
<b>14069</b>	Montreal	1976	CRAWFORD, Hasely	TRI
<b>12902</b>	Munich	1972	BORZOV, Valery	URS
<b>11865</b>	Mexico	1968	HINES, James Ray	USA
<b>10823</b>	Tokyo	1964	HAYES, Robert	USA
<b>9924</b>	Rome	1960	HARY, Armin	EUA
<b>9009</b>	Melbourne / Stockholm	1956	MORROW, Robert Joseph	USA
<b>8121</b>	Helsinki	1952	REMIGINO, Lindy	USA
<b>7302</b>	London	1948	DILLARD, Harrison	USA
<b>6427</b>	Berlin	1936	OWENS, Jesse	USA
<b>5806</b>	Los Angeles	1932	TOLAN, Eddie	USA
<b>5095</b>	Amsterdam	1928	WILLIAMS, Percy	CAN
<b>4236</b>	Paris	1924	ABRAHAMMS, Harold	GBR
<b>2996</b>	Antwerp	1920	PADDOCK, Charles	USA
<b>2022</b>	Stockholm	1912	CRAIG, Ralph	USA
<b>1191</b>	London	1908	WALKER, Reginald	RSA
<b>737</b>	St Louis	1904	HAHN, Archie	USA
<b>231</b>	Paris	1900	JARVIS, Francis	USA
<b>13</b>	Athens	1896	BURKE, Thomas	USA

Basic Plotting Plot() Plot(Kind='line') Plot(Kind='bar') Plot(Kind='barh') Plot(Kind='pie')

```
In [48]: import matplotlib.pyplot as plt
         %matplotlib inline
```

What are the different sports in first olympics, plot them using different graph

```
In [50]: fo = df[(df.Edition == 1896)]
         fo.head(10)
```

```
Out[50]:
```

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
0	Athens	1896	Aquatics	Swimming	HAJOS, Alfred	HUN	Men	100m freestyle	M	Gold
1	Athens	1896	Aquatics	Swimming	HERSCHMANN, Otto	AUT	Men	100m freestyle	M	Silver
2	Athens	1896	Aquatics	Swimming	DRIVAS, Dimitrios	GRE	Men	100m freestyle for sailors	M	Bronze
3	Athens	1896	Aquatics	Swimming	MALOKINIS, Ioannis	GRE	Men	100m freestyle for sailors	M	Gold
4	Athens	1896	Aquatics	Swimming	CHASAPIS, Spiridon	GRE	Men	100m freestyle for sailors	M	Silver
5	Athens	1896	Aquatics	Swimming	CHOROPHAS, Efstathios	GRE	Men	1200m freestyle	M	Bronze
6	Athens	1896	Aquatics	Swimming	HAJOS, Alfred	HUN	Men	1200m freestyle	M	Gold
7	Athens	1896	Aquatics	Swimming	ANDREOU, Joannis	GRE	Men	1200m freestyle	M	Silver
8	Athens	1896	Aquatics	Swimming	CHOROPHAS, Efstathios	GRE	Men	400m freestyle	M	Bronze
9	Athens	1896	Aquatics	Swimming	NEUMANN, Paul	AUT	Men	400m freestyle	M	Gold

Line Graph

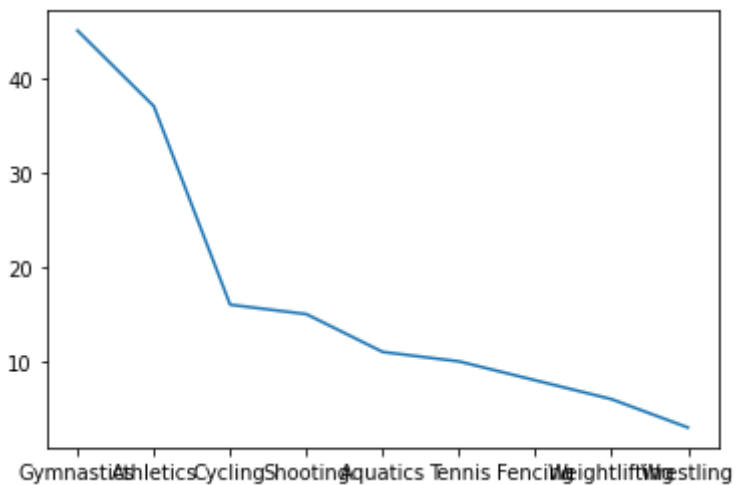
```
In [52]: fo.Sport.value_counts()
```

```
Out[52]: Gymnastics      45
Athletics      37
Cycling        16
Shooting       15
Aquatics       11
Tennis         10
Fencing        8
Weightlifting   6
Wrestling       3
Name: Sport, dtype: int64
```

```
In [53]:
```

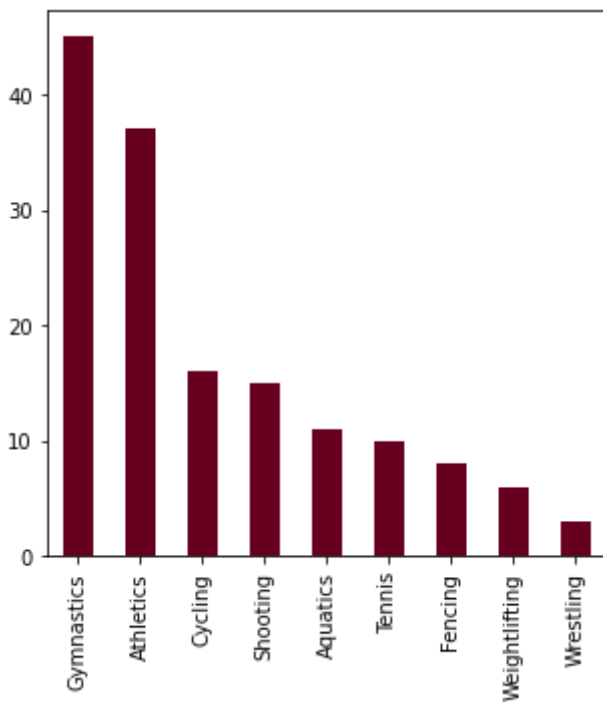
```
fo.Sport.value_counts().plot()
```

Out[53]: <AxesSubplot:>



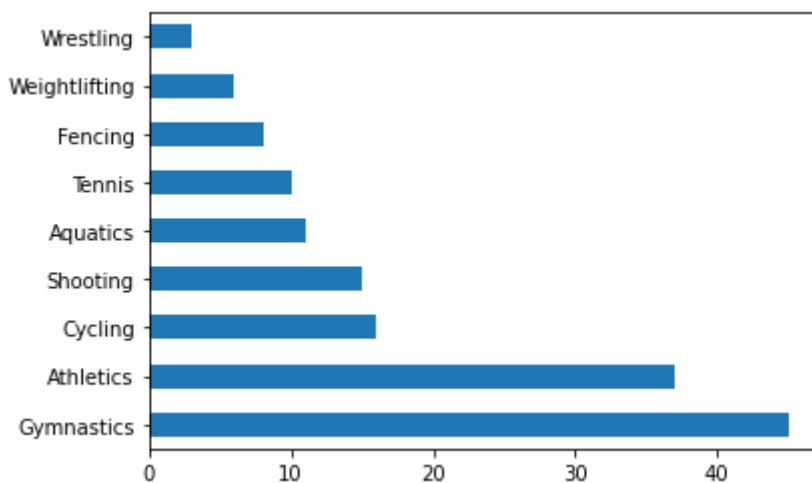
```
In [90]: fo.Sport.value_counts().plot(kind='bar', colormap='RdBu', figsize=(5,5))
```

Out[90]: <AxesSubplot:>



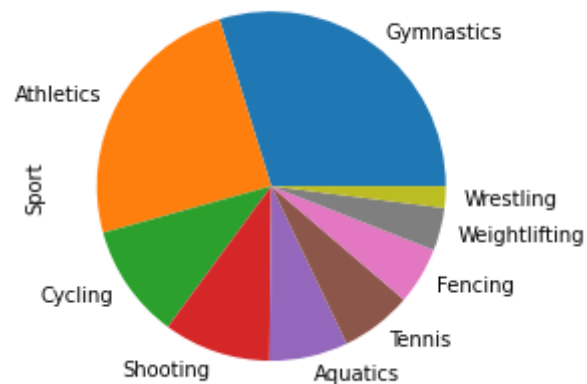
```
In [55]: fo.Sport.value_counts().plot(kind='barh')
```

Out[55]: <AxesSubplot:>

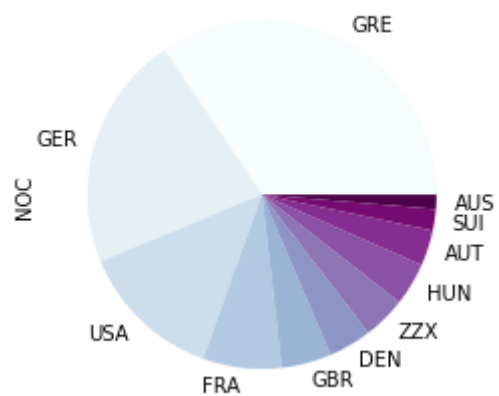


```
In [56]: fo.Sport.value_counts().plot(kind='pie')
```

Out[56]: <AxesSubplot:ylabel='Sport'>



In [87]: `fo.NOC.value_counts().plot(kind='pie', colormap='BuPu');`



Countplot()

--

seaborn.countplot(x=None,y=None,hue=None,data=None,order=None,hue\_order=None,orient=None,color=None,palette=None....)

--data: dataframe or source of data

--hue: categorical variable



--order: sequence when using categorical variable

--palette: colors to use for the different levels of hue variable

## When to use

Matplotlib()

Short scripts and in conjunction with pyplot

simple plot- line bar

Seaborn()

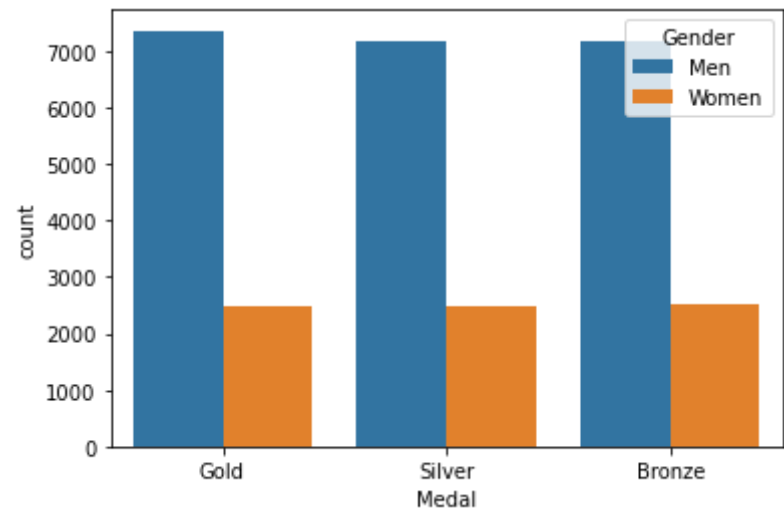
dealing with statistical,categorical data,or requirimng more advance plots

```
In [94]: import seaborn as sns
```

How many medals have been won by men and women in the History of olympics. How many gold, silver and bronz medals were won for each gender.

```
In [97]: sns.countplot(x='Medal',data=df, hue='Gender')
```

```
Out[97]: <AxesSubplot:xlabel='Medal', ylabel='count'>
```



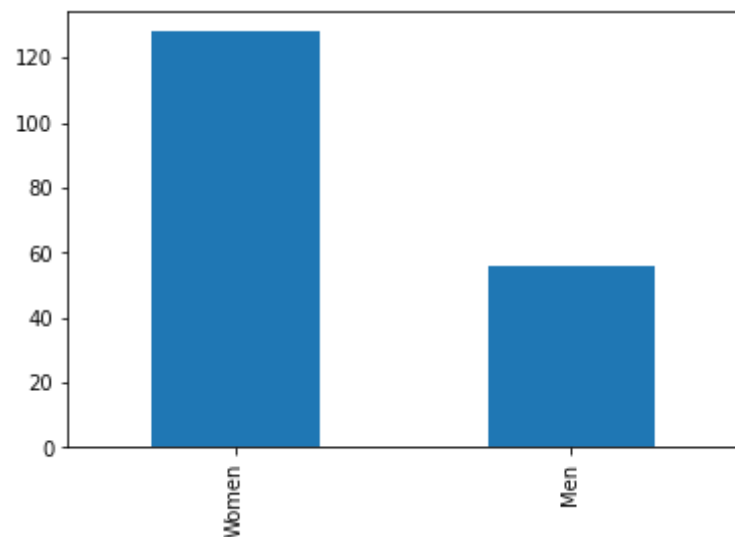
```
In [105... chb = df[(df.NOC == 'CHN') & (df.Edition == 2008)]
chb
```

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
27176	Beijing	2008	Aquatics	Diving	ZHOU, Luxin	CHN	Men	10m platform	M	Silver
27177	Beijing	2008	Aquatics	Diving	WANG, Xin	CHN	Women	10m platform	W	Bronze
27178	Beijing	2008	Aquatics	Diving	CHEN, Ruolin	CHN	Women	10m platform	W	Gold
27180	Beijing	2008	Aquatics	Diving	QIN, Kai	CHN	Men	3m springboard	M	Bronze
27181	Beijing	2008	Aquatics	Diving	HE, Chong	CHN	Men	3m springboard	M	Gold
...	...	...	...	...	...	...	...	...	...	...
29138	Beijing	2008	Weightlifting	Weightlifting	LI, Hongli	CHN	Men	77kg	M	Silver
29140	Beijing	2008	Weightlifting	Weightlifting	LU, Yong	CHN	Men	85kg	M	Gold
29156	Beijing	2008	Wrestling	Wrestling Free.	XU, Li	CHN	Women	48 - 55kg	W	Silver
29171	Beijing	2008	Wrestling	Wrestling Free.	WANG, Jiao	CHN	Women	63 - 72kg	W	Gold
29204	Beijing	2008	Wrestling	Wrestling Gre-R	CHANG, Yongxiang	CHN	Men	66 - 74kg	M	Silver

184 rows × 10 columns

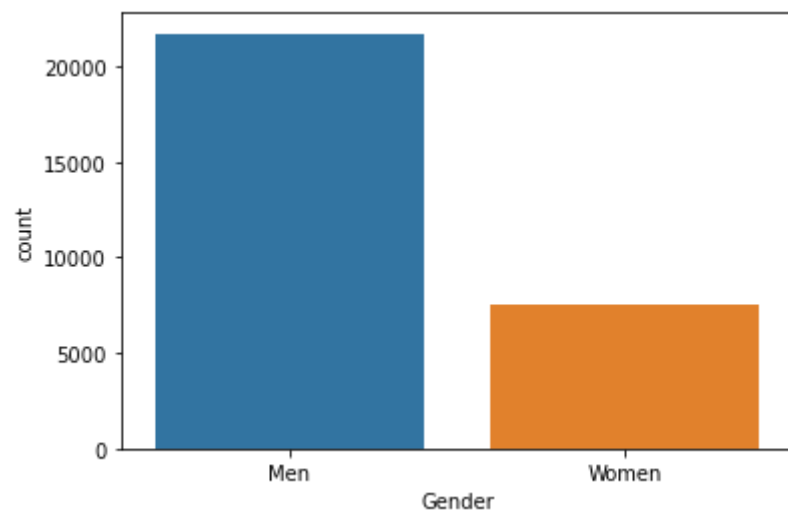
```
In [107... chb.Gender.value_counts().plot(kind='bar')
```

```
Out[107... <AxesSubplot:>
```



```
In [108... sns.countplot(data=df, x='Gender')
```

```
Out[108... <AxesSubplot:xlabel='Gender', ylabel='count'>
```



Indexing

```
In [109... type(df.index)
```

Out[109... pandas.core.indexes.range.RangeIndex

```
In [111... df.index[100]
```

Out[111... 100

set\_index()  
  
dataframe.set\_index(keys,drop=True,append=False,implace=False,verify\_integrity=False)  
  
Set dataframes using one or more columns

```
In [112... df.head()
```

Out[112...

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
0	Athens	1896	Aquatics	Swimming	HAJOS, Alfred	HUN	Men	100m freestyle	M	Gold
1	Athens	1896	Aquatics	Swimming	HERSCHMANN, Otto	AUT	Men	100m freestyle	M	Silver
2	Athens	1896	Aquatics	Swimming	DRIVAS, Dimitrios	GRE	Men	100m freestyle for sailors	M	Bronze
3	Athens	1896	Aquatics	Swimming	MALOKINIS, Ioannis	GRE	Men	100m freestyle for sailors	M	Gold
4	Athens	1896	Aquatics	Swimming	CHASAPIS, Spiridon	GRE	Men	100m freestyle for sailors	M	Silver

```
In [113... df.set_index('Athlete')
```

Out[113...

	City	Edition	Sport	Discipline	NOC	Gender		Event	Event_gender	Medal
Athlete										
HAJOS, Alfred	Athens	1896	Aquatics	Swimming	HUN	Men		100m freestyle	M	Gold
HERSCHMANN, Otto	Athens	1896	Aquatics	Swimming	AUT	Men		100m freestyle	M	Silver
DRIVAS, Dimitrios	Athens	1896	Aquatics	Swimming	GRE	Men		100m freestyle for sailors	M	Bronze
MALOKINIS, Ioannis	Athens	1896	Aquatics	Swimming	GRE	Men		100m freestyle for sailors	M	Gold
CHASAPIS, Spiridon	Athens	1896	Aquatics	Swimming	GRE	Men		100m freestyle for sailors	M	Silver

	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
Athlete									
...	...	...	...	...	...	...	...	...	...
ENGLISH, Mirko	Beijing	2008	Wrestling	Wrestling Gre-R	GER	Men	84 - 96kg	M	Silver
MIZGAITIS, Mindaugas	Beijing	2008	Wrestling	Wrestling Gre-R	LTU	Men	96 - 120kg	M	Bronze
PATRIKEEV, Yuri	Beijing	2008	Wrestling	Wrestling Gre-R	ARM	Men	96 - 120kg	M	Bronze
LOPEZ, Mijain	Beijing	2008	Wrestling	Wrestling Gre-R	CUB	Men	96 - 120kg	M	Gold
BAROEV, Khasan	Beijing	2008	Wrestling	Wrestling Gre-R	RUS	Men	96 - 120kg	M	Silver

29216 rows × 9 columns

In [114...

```
df.head()
```

Out[114...

	City	Edition	Sport	Discipline	Athlete	NOC	Gender	Event	Event_gender	Medal
0	Athens	1896	Aquatics	Swimming	HAJOS, Alfred	HUN	Men	100m freestyle	M	Gold
1	Athens	1896	Aquatics	Swimming	HERSCHMANN, Otto	AUT	Men	100m freestyle	M	Silver
2	Athens	1896	Aquatics	Swimming	DRIVAS, Dimitrios	GRE	Men	100m freestyle for sailors	M	Bronze
3	Athens	1896	Aquatics	Swimming	MALOKINIS, Ioannis	GRE	Men	100m freestyle for sailors	M	Gold
4	Athens	1896	Aquatics	Swimming	CHASAPIS, Spiridon	GRE	Men	100m freestyle for sailors	M	Silver

In [115...

```
df.set_index('Athlete',inplace=True)
```

In [116...

```
df.head()
```

Out[116...

	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
Athlete									
HAJOS, Alfred	Athens	1896	Aquatics	Swimming	HUN	Men	100m freestyle	M	Gold
HERSCHMANN, Otto	Athens	1896	Aquatics	Swimming	AUT	Men	100m freestyle	M	Silver

	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
Athlete									
DRIVAS, Dimitrios	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Bronze
MALOKINIS, Ioannis	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Gold
CHASAPIS, Spiridon	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Silver

```
In [117... df.reset_index(inplace=True)
```

```
In [118... df.head()
```

	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
0	HAJOS, Alfred	Athens	1896	Aquatics	Swimming	HUN	Men	100m freestyle	M	Gold
1	HERSCHMANN, Otto	Athens	1896	Aquatics	Swimming	AUT	Men	100m freestyle	M	Silver
2	DRIVAS, Dimitrios	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Bronze
3	MALOKINIS, Ioannis	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Gold
4	CHASAPIS, Spiridon	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Silver

```
In [119... ath=df.set_index('Athlete')
```

```
In [121... ath.head(3)
```

	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
Athlete									
HAJOS, Alfred	Athens	1896	Aquatics	Swimming	HUN	Men	100m freestyle	M	Gold
HERSCHMANN, Otto	Athens	1896	Aquatics	Swimming	AUT	Men	100m freestyle	M	Silver
DRIVAS, Dimitrios	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Bronze

```
In [122... ath.reset_index(inplace=True)
```

In [123...

```
ath.head(3)
```

Out[123...

	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
0	HAJOS, Alfred	Athens	1896	Aquatics	Swimming	HUN	Men	100m freestyle	M	Gold
1	HERSCHMANN, Otto	Athens	1896	Aquatics	Swimming	AUT	Men	100m freestyle	M	Silver
2	DRIVAS, Dimitrios	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Bronze

sort\_index()  
  
sort\_index(axis=0,level=None,ascending=True,inplace=False....by=None)  
  
helps during sorting large data

In [124...

```
ath.set_index('Athlete',inplace=True)
```

In [125...

```
ath.head()
```

Out[125...

	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
	HAJOS, Alfred	Athens	1896	Aquatics	Swimming	HUN	Men	100m freestyle	M	Gold
	HERSCHMANN, Otto	Athens	1896	Aquatics	Swimming	AUT	Men	100m freestyle	M	Silver
	DRIVAS, Dimitrios	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Bronze
	MALOKINIS, Ioannis	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Gold
	CHASAPIS, Spiridon	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Silver

In [127...

```
ath.sort_index(inplace=True,ascending=False)  
ath.head()
```

Out[127...

	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
--	---------	------	---------	-------	------------	-----	--------	-------	--------------	-------

	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
Athlete									
ÖSTRAND, Per-Olof	Helsinki	1952	Aquatics	Swimming	SWE	Men	400m freestyle	M	Bronze
ÖSTMO, Ole	Paris	1900	Shooting	Shooting	NOR	Men	army rifle, 300m, 3 positions	M	Bronze
ÖSTMO, Ole	Paris	1900	Shooting	Shooting	NOR	Men	free rifle, team	M	Silver
ÖSTMO, Ole	Paris	1900	Shooting	Shooting	NOR	Men	army rifle, 300m, standing	M	Silver
ÖSTMO, Ole	Paris	1900	Shooting	Shooting	NOR	Men	army rifle, 300m, prone	M	Bronze

loc[]

label based indexer for selection by label

loc[] will raise key error when items are not found

In [130...

```
ath.loc['BOLT, Usain']
```

Out[130...

	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
Athlete									
BOLT, Usain	Beijing	2008	Athletics	Athletics	JAM	Men	100m	M	Gold
BOLT, Usain	Beijing	2008	Athletics	Athletics	JAM	Men	4x100m relay	M	Gold
BOLT, Usain	Beijing	2008	Athletics	Athletics	JAM	Men	200m	M	Gold

In [133...

```
ath.reset_index(inplace=True)
ath.head()
```

Out[133...

	index	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
0	0	ÖSTRAND, Per-Olof	Helsinki	1952	Aquatics	Swimming	SWE	Men	400m freestyle	M	Bronze
1	1	ÖSTMO, Ole	Paris	1900	Shooting	Shooting	NOR	Men	army rifle, 300m, 3 positions	M	Bronze
2	2	ÖSTMO, Ole	Paris	1900	Shooting	Shooting	NOR	Men	free rifle, team	M	Silver



	index	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
3	3	ÖSTMO, Ole	Paris	1900	Shooting	Shooting	NOR	Men	army rifle, 300m, standing	M	Silver
4	4	ÖSTMO, Ole	Paris	1900	Shooting	Shooting	NOR	Men	army rifle, 300m, prone	M	Bronze

In [137...

```
ath.iloc[[1000,1300,1549,2467,5001,10000]]
```

Out[137...

	index	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
1000	1000	WINT, Arthur	London	1948	Athletics	Athletics	JAM	Men	400m	M	Gold
1300	1300	WHITE, Rodney	Sydney	2000	Archery	Archery	USA	Men	team (FITA Olympic round - 70m)	M	Bronze
1549	1549	WEBER-KOSZTO, Monika	Barcelona	1992	Fencing	Fencing	GER	Women	foil team	W	Silver
2467	2467	VAN VOORST VAN BEEST, J. M.	Amsterdam	1928	Hockey	Hockey	NED	Men	hockey	M	Silver
5001	5001	STAMM, Michael Eugene	Munich	1972	Aquatics	Swimming	USA	Men	200m backstroke	M	Silver
10000	10000	PAINE, Sumner	Athens	1896	Shooting	Shooting	USA	Men	25m army pistol	M	Silver

In [138...

```
df.iloc[[1000,1300,1549,2467,5001,10000]]
```

Out[138...

	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
1000	STEFFEN, Otto	St Louis	1904	Gymnastics	Artistic G.	USA	Men	team competition	M	Silver
1300	BARTLETT, Charles Henry	London	1908	Cycling	Cycling Track	GBR	Men	100km	M	Gold
1549	MCLEOD, D.	London	1908	Lacrosse	Lacrosse	CAN	Men	lacrosse	M	Gold
2467	PEDERSEN, Peder Larsen	Stockholm	1912	Gymnastics	Artistic G.	DEN	Men	team, Swedish system	M	Silver
5001	PELLINEN, Onni	Paris	1924	Wrestling	Wrestling Gre-R	FIN	Men	75 - 82.5kg (light-heavyweight)	M	Bronze
10000	JONES-CARR, Brenda	Rome	1960	Athletics	Athletics	AUS	Women	800m	W	Silver

```
In [142... df.iloc[0:6]
```

Out[142...

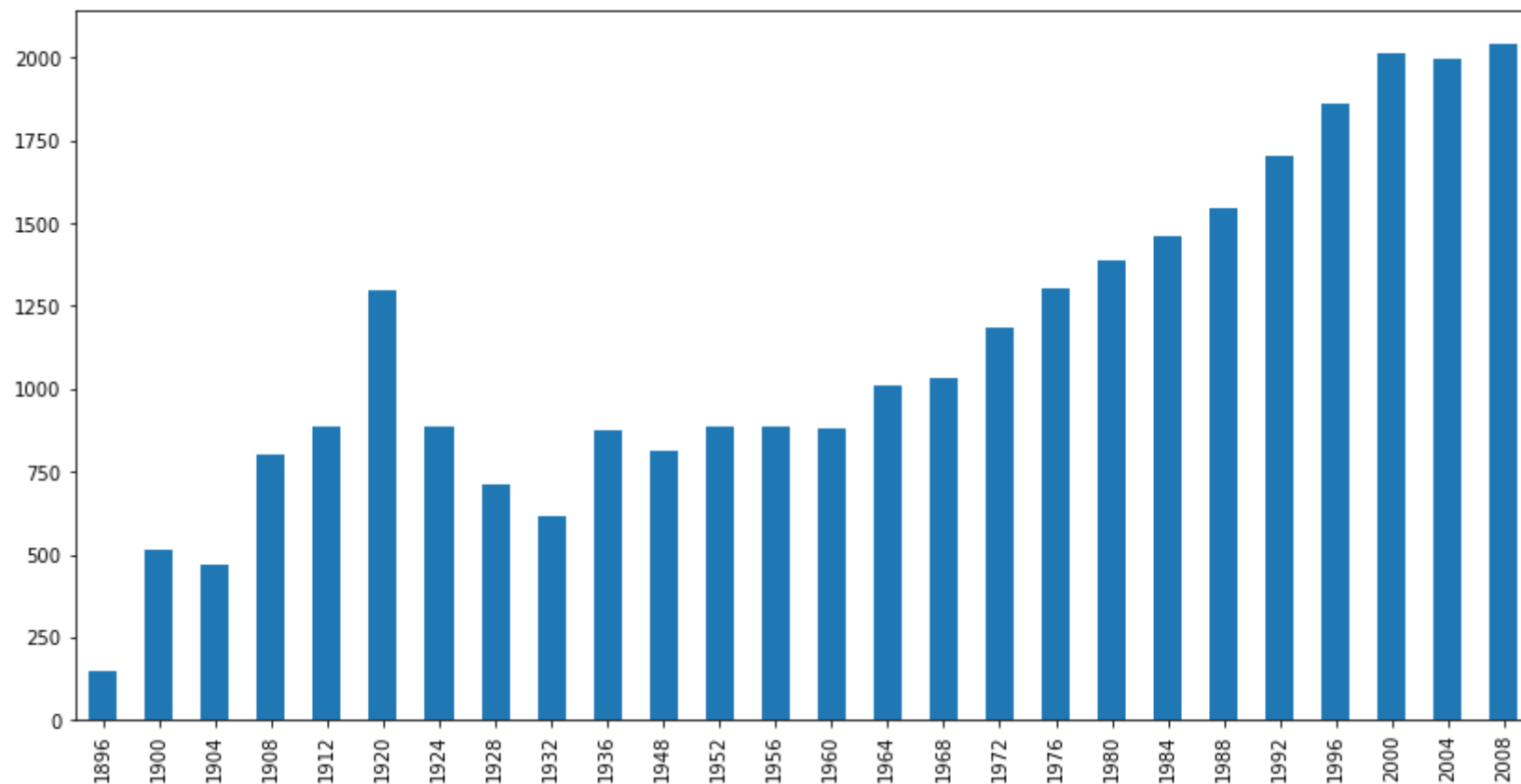
	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
0	HAJOS, Alfred	Athens	1896	Aquatics	Swimming	HUN	Men	100m freestyle	M	Gold
1	HERSCHMANN, Otto	Athens	1896	Aquatics	Swimming	AUT	Men	100m freestyle	M	Silver
2	DRIVAS, Dimitrios	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Bronze
3	MALOKINIS, Ioannis	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Gold
4	CHASAPIS, Spiridon	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Silver
5	CHOROPHAS, Efstathios	Athens	1896	Aquatics	Swimming	GRE	Men	1200m freestyle	M	Bronze

```
In [ ]:
```

Challenge

```
In [165... df.Edition.value_counts().sort_index().plot(kind='bar', figsize=(14,7))
```

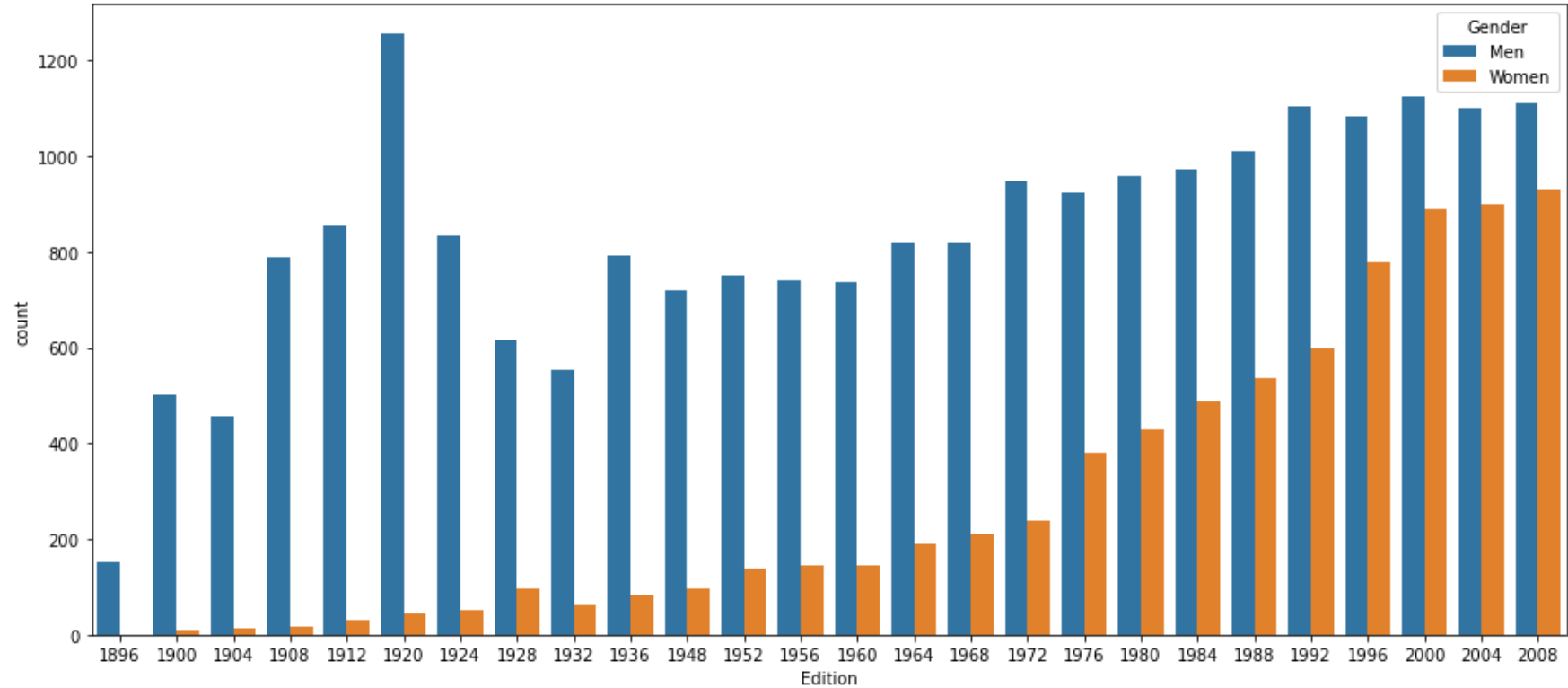
Out[165... <AxesSubplot:>



```
In [162... from matplotlib import rcParams  
  
# figure size in inches  
rcParams['figure.figsize'] = 16,7
```

```
In [163... sns.countplot(x='Edition', data=df, hue='Gender')
```

```
Out[163... <AxesSubplot:xlabel='Edition', ylabel='count'>
```



groupby

```
In [167... df.groupby('Edition')
```

Out[167... <pandas.core.groupby.generic.DataFrameGroupBy object at 0x7f7b896695e0>

```
In [169... type(df.groupby('Edition'))
```

Out[169... pandas.core.groupby.generic.DataFrameGroupBy

```
In [170... list(df.groupby('Edition'))
```

Out[170... [(1896,

	Athlete	City	Edition	Sport \
0	HAJOS, Alfred	Athens	1896	Aquatics
1	HERSCHMANN, Otto	Athens	1896	Aquatics
2	DRIVAS, Dimitrios	Athens	1896	Aquatics

3	MALOKINIS, Ioannis	Athens	1896	Aquatics
4	CHASAPIS, Spiridon	Athens	1896	Aquatics
..	...	...	...	...
146	JENSEN, Viggo	Athens	1896	Weightlifting
147	ELLIOTT, Launceston	Athens	1896	Weightlifting
148	CHRISTOPOULOS, Stephanos	Athens	1896	Wrestling
149	SCHUMANN, Carl	Athens	1896	Wrestling
150	TSITAS, Georgios	Athens	1896	Wrestling

	Discipline	NOC	Gender	Event	Event_gender	\
0	Swimming	HUN	Men	100m freestyle	M	
1	Swimming	AUT	Men	100m freestyle	M	
2	Swimming	GRE	Men	100m freestyle for sailors	M	
3	Swimming	GRE	Men	100m freestyle for sailors	M	
4	Swimming	GRE	Men	100m freestyle for sailors	M	
..	...	...	...	...	...	
146	Weightlifting	DEN	Men	heavyweight - two hand lift	M	
147	Weightlifting	GBR	Men	heavyweight - two hand lift	M	
148	Wrestling Gre-R	GRE	Men	open event	M	
149	Wrestling Gre-R	GER	Men	open event	M	
150	Wrestling Gre-R	GRE	Men	open event	M	

	Medal
0	Gold
1	Silver
2	Bronze
3	Gold
4	Silver
..	...
146	Gold
147	Silver
148	Bronze
149	Gold
150	Silver

[151 rows x 10 columns]),  
(1900,

	Athlete	City	Edition	Sport	\
151	HALMAY, Zoltan	Paris	1900	Aquatics	
152	JARVIS, John Arthur	Paris	1900	Aquatics	
153	WAHLE, Otto	Paris	1900	Aquatics	
154	DROST, Johannes	Paris	1900	Aquatics	
155	HOPPENBERG, Ernst	Paris	1900	Aquatics	
..	...	...	...	...	
658	COLLAS, Jean	Paris	1900	Tug of War	
659	GONDOUIN, Charles	Paris	1900	Tug of War	
660	HENRIQUEZ DE ZUBIERRA, Constantin	Paris	1900	Tug of War	
661	ROFFO, Joseph	Paris	1900	Tug of War	
662	SARRADE, Emile	Paris	1900	Tug of War	

	Discipline	NOC	Gender	Event	Event_gender	Medal
151	Swimming	HUN	Men	1500m freestyle	M	Bronze
152	Swimming	GBR	Men	1500m freestyle	M	Gold
153	Swimming	AUT	Men	1500m freestyle	M	Silver
154	Swimming	NED	Men	200m backstroke	M	Bronze
155	Swimming	GER	Men	200m backstroke	M	Gold
..	...	...	...	...	...	...
658	Tug of War	FRA	Men	tug of war	M	Silver
659	Tug of War	FRA	Men	tug of war	M	Silver
660	Tug of War	FRA	Men	tug of war	M	Silver
661	Tug of War	FRA	Men	tug of war	M	Silver
662	Tug of War	FRA	Men	tug of war	M	Silver

[512 rows x 10 columns]),  
(1904,

	Athlete	City	Edition	Sport	Discipline \
663	BRAUNSCHWEIGER, Alfred	St Louis	1904	Aquatics	Diving
664	KEHOE, Frank	St Louis	1904	Aquatics	Diving
665	SHELDON, George	St Louis	1904	Aquatics	Diving
666	HOFFMANN, Georg	St Louis	1904	Aquatics	Diving
667	GOODWIN, Leo Budd	St Louis	1904	Aquatics	Diving
...	...	...	...	...	...
1128	ROEHM, Otto F.	St Louis	1904	Wrestling	Wrestling Free.
1129	TESING, Rudolph	St Louis	1904	Wrestling	Wrestling Free.
1130	WINHOLTZ, Jerry	St Louis	1904	Wrestling	Wrestling Free.
1131	ERICKSEN, Charles	St Louis	1904	Wrestling	Wrestling Free.
1132	BECKMANN, William	St Louis	1904	Wrestling	Wrestling Free.

	NOC	Gender	Event	Event_gender	Medal
663	GER	Men	10m platform	M	Bronze
664	USA	Men	10m platform	M	Bronze
665	USA	Men	10m platform	M	Gold
666	GER	Men	10m platform	M	Silver
667	USA	Men	plunge for distance	M	Bronze
...	...	...	...	...	...
1128	USA	Men	61.23 - 65.77kg (lightweight)	M	Gold
1129	USA	Men	61.23 - 65.77kg (lightweight)	M	Silver
1130	USA	Men	65.77 - 71.67kg (welterweight)	M	Bronze
1131	USA	Men	65.77 - 71.67kg (welterweight)	M	Gold
1132	USA	Men	65.77 - 71.67kg (welterweight)	M	Silver

[470 rows x 10 columns]),  
(1908,

	Athlete	City	Edition	Sport	Discipline \
1133	SPANGBERG, Arvid	London	1908	Aquatics	Diving
1134	JOHANSSON, Hjalmar	London	1908	Aquatics	Diving
1135	MALMSTRÖM, Karl	London	1908	Aquatics	Diving
1136	GAIDZIK, George William	London	1908	Aquatics	Diving

1137	WALZ, Gottlob	London	1908	Aquatics	Diving
...	...	...	...	...	...
1932	MARTENSSON, Frithiof M.	London	1908	Wrestling	Wrestling Gre-R
1933	ANDERSSON, Mauritz	London	1908	Wrestling	Wrestling Gre-R
1934	JENSEN, Carl Marinus	London	1908	Wrestling	Wrestling Gre-R
1935	WECKMAN, Werner	London	1908	Wrestling	Wrestling Gre-R
1936	SAARELA, Urjö Erik Mikael	London	1908	Wrestling	Wrestling Gre-R

	NOC	Gender		Event	Event_gender	Medal
1133	SWE	Men		10m platform	M	Bronze
1134	SWE	Men		10m platform	M	Gold
1135	SWE	Men		10m platform	M	Silver
1136	USA	Men		3m springboard	M	Bronze
1137	GER	Men		3m springboard	M	Bronze
...	...	...	...	...	...	...
1932	SWE	Men	66.6 - 73kg (middleweight)		M	Gold
1933	SWE	Men	66.6 - 73kg (middleweight)		M	Silver
1934	DEN	Men	73 - 93kg (light-heavyweight)		M	Bronze
1935	FIN	Men	73 - 93kg (light-heavyweight)		M	Gold
1936	FIN	Men	73 - 93kg (light-heavyweight)		M	Silver

[804 rows x 10 columns]],

(1912,

	Athlete	City	Edition	Sport	Discipline \
1937	BLOMGREN, Gustaf	Stockholm	1912	Aquatics	Diving
1938	ADLERZ, Erik	Stockholm	1912	Aquatics	Diving
1939	ZÜRNER, Albert	Stockholm	1912	Aquatics	Diving
1940	WHITE, Isabella Mary	Stockholm	1912	Aquatics	Diving
1941	JOHANSSON, Greta	Stockholm	1912	Aquatics	Diving
...	...	...	...	...	...
2817	JOHANSSON, Claes	Stockholm	1912	Wrestling	Wrestling Gre-R
2818	KLEIN, Martin	Stockholm	1912	Wrestling	Wrestling Gre-R
2819	VARGA, Béla	Stockholm	1912	Wrestling	Wrestling Gre-R
2820	AHLGREN, Anders	Stockholm	1912	Wrestling	Wrestling Gre-R
2821	BÖHLING, Ivar Theodor	Stockholm	1912	Wrestling	Wrestling Gre-R

	NOC	Gender		Event	Event_gender	Medal
1937	SWE	Men		10m platform	M	Bronze
1938	SWE	Men		10m platform	M	Gold
1939	GER	Men		10m platform	M	Silver
1940	GBR	Women		10m platform	W	Bronze
1941	SWE	Women		10m platform	W	Gold
...	...	...	...	...	...	...
2817	SWE	Men	67.5 - 75kg (middleweight)		M	Gold
2818	RU1	Men	67.5 - 75kg (middleweight)		M	Silver
2819	HUN	Men	75 - 82.5kg (light-heavyweight)		M	Bronze
2820	SWE	Men	75 - 82.5kg (light-heavyweight)		M	Silver
2821	FIN	Men	75 - 82.5kg (light-heavyweight)		M	Silver

[885 rows x 10 columns]),  
(1920,

	Athlete	City	Edition	Sport	\
2822	PRIESTE, Harry	Antwerp	1920	Aquatics	
2823	PINKSTON, Clarence	Antwerp	1920	Aquatics	
2824	ADLERZ, Erik	Antwerp	1920	Aquatics	
2825	OLLIVIER, Eva	Antwerp	1920	Aquatics	
2826	FRYLAND CLAUSEN, Stefani	Antwerp	1920	Aquatics	
...	...	...	...	...	
4115	WESTERGREN, Carl	Antwerp	1920	Wrestling	
4116	LINDFORS, Arthur	Antwerp	1920	Wrestling	
4117	ERIKSEN, Johannes Thorvald	Antwerp	1920	Wrestling	
4118	JOHANSSON, Claes	Antwerp	1920	Wrestling	
4119	ROSENQVIST, Edil	Antwerp	1920	Wrestling	

	Discipline	NOC	Gender	Event	Event_gender	\
2822	Diving	USA	Men	10m platform	M	
2823	Diving	USA	Men	10m platform	M	
2824	Diving	SWE	Men	10m platform	M	
2825	Diving	SWE	Women	10m platform	W	
2826	Diving	DEN	Women	10m platform	W	
...	...	...	...	...	...	
4115	Wrestling Gre-R	SWE	Men	67.5 - 75kg (middleweight)	M	
4116	Wrestling Gre-R	FIN	Men	67.5 - 75kg (middleweight)	M	
4117	Wrestling Gre-R	DEN	Men	75 - 82kg (light-heavyweight)	M	
4118	Wrestling Gre-R	SWE	Men	75 - 82kg (light-heavyweight)	M	
4119	Wrestling Gre-R	FIN	Men	75 - 82kg (light-heavyweight)	M	

	Medal
2822	Bronze
2823	Gold
2824	Silver
2825	Bronze
2826	Gold
...	...
4115	Gold
4116	Silver
4117	Bronze
4118	Gold
4119	Silver

[1298 rows x 10 columns]),  
(1924,

	Athlete	City	Edition	Sport	Discipline	\
4120	PINKSTON, Clarence	Paris	1924	Aquatics	Diving	
4121	WHITE, Albert	Paris	1924	Aquatics	Diving	
4122	FALL, David	Paris	1924	Aquatics	Diving	
4123	TÖPEL, Hjärdis	Paris	1924	Aquatics	Diving	
4124	SMITH, Caroline	Paris	1924	Aquatics	Diving	



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...
4999 WESTERLUND, Edward Wilhelm Paris 1924 Wrestling Wrestling Gre-R
5000 LINDFORS, Arthur Paris 1924 Wrestling Wrestling Gre-R
5001 PELLINEN, Onni Paris 1924 Wrestling Wrestling Gre-R
5002 WESTERGREN, Carl Paris 1924 Wrestling Wrestling Gre-R
5003 SVENSSON, Rudolf Paris 1924 Wrestling Wrestling Gre-R

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NOC Gender Event Event_gender Medal
4120 USA Men 10m platform M Bronze
4121 USA Men 10m platform M Gold
4122 USA Men 10m platform M Silver
4123 SWE Women 10m platform W Bronze
4124 USA Women 10m platform W Gold

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...
4999 FIN Men 67.5 - 75kg (middleweight) M Gold
5000 FIN Men 67.5 - 75kg (middleweight) M Silver
5001 FIN Men 75 - 82.5kg (light-heavyweight) M Bronze
5002 SWE Men 75 - 82.5kg (light-heavyweight) M Gold
5003 SWE Men 75 - 82.5kg (light-heavyweight) M Silver

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[884 rows x 10 columns]),
(1928,

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Athlete City Edition Sport \
5004 GALITZEN, Michael Riley Amsterdam 1928 Aquatics
5005 DESJARDINS, Ulise Joseph "Peter" Amsterdam 1928 Aquatics
5006 SIMAIKA, Farid Amsterdam 1928 Aquatics
5007 SJÖQVIST, Laura Amsterdam 1928 Aquatics
5008 BECKER-PINKSTON, Elizabeth Amsterdam 1928 Aquatics
...
5709 KOKKINEN, Väinö Anselmi Amsterdam 1928 Wrestling
5710 PAPP, L. Amsterdam 1928 Wrestling
5711 PELLINEN, Onni Amsterdam 1928 Wrestling
5712 MOUSTAPHA, Ibrahim Amsterdam 1928 Wrestling
5713 RIEGER, A. Amsterdam 1928 Wrestling

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Discipline NOC Gender Event \
5004 Diving USA Men 10m platform
5005 Diving USA Men 10m platform
5006 Diving EGY Men 10m platform
5007 Diving SWE Women 10m platform
5008 Diving USA Women 10m platform
...
5709 Wrestling Gre-R FIN Men 67.5 - 75kg (middleweight)
5710 Wrestling Gre-R HUN Men 67.5 - 75kg (middleweight)
5711 Wrestling Gre-R FIN Men 75 - 82.5kg (light-heavyweight)
5712 Wrestling Gre-R EGY Men 75 - 82.5kg (light-heavyweight)
5713 Wrestling Gre-R GER Men 75 - 82.5kg (light-heavyweight)

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Event_gender Medal

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5004      M   Bronze
5005      M    Gold
5006      M   Silver
5007      W   Bronze
5008      W    Gold
...
5709      M    Gold
5710      M   Silver
5711      M   Bronze
5712      M    Gold
5713      M   Silver

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[710 rows x 10 columns]),
(1932,

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	Athlete	City	Edition	Sport \
5714	KURTZ, Frank Allen	Los Angeles	1932	Aquatics
5715	SMITH, Harold Edwin	Los Angeles	1932	Aquatics
5716	GALITZEN, Michael Riley	Los Angeles	1932	Aquatics
5717	ROPER, Marion Dale	Los Angeles	1932	Aquatics
5718	POYNTON-HILL, Dorothy	Los Angeles	1932	Aquatics
...	...	...	...	...
6324	KOKKINEN, Väinö Anselmi	Los Angeles	1932	Wrestling
6325	FÖLDEÁK, Jean	Los Angeles	1932	Wrestling
6326	GRUPPIONI, Mario	Los Angeles	1932	Wrestling
6327	SVENSSON, Rudolf	Los Angeles	1932	Wrestling
6328	PELLINEN, Onni	Los Angeles	1932	Wrestling

	Discipline	NOC	Gender	Event	Event_gender \
5714	Diving	USA	Men	10m platform	M
5715	Diving	USA	Men	10m platform	M
5716	Diving	USA	Men	10m platform	M
5717	Diving	USA	Women	10m platform	W
5718	Diving	USA	Women	10m platform	W
...	...	...	...	...	...
6324	Wrestling Gre-R	FIN	Men	72 - 79kg (middleweight)	M
6325	Wrestling Gre-R	GER	Men	72 - 79kg (middleweight)	M
6326	Wrestling Gre-R	ITA	Men	79 - 87kg (light-heavyweight)	M
6327	Wrestling Gre-R	SWE	Men	79 - 87kg (light-heavyweight)	M
6328	Wrestling Gre-R	FIN	Men	79 - 87kg (light-heavyweight)	M

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Medal
5714 Bronze
5715 Gold
5716 Silver
5717 Bronze
5718 Gold
...
6324 Gold
6325 Silver

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6326 Bronze  
6327 Gold  
6328 Silver

[615 rows x 10 columns]),  
(1936,

	Athlete	City	Edition	Sport	Discipline	NOC	\
6329	STORK, Hermann	Berlin	1936	Aquatics	Diving	GER	
6330	WAYNE, Marshall	Berlin	1936	Aquatics	Diving	USA	
6331	ROOT, Elbert Alonzo	Berlin	1936	Aquatics	Diving	USA	
6332	KÖHLER, Käthe	Berlin	1936	Aquatics	Diving	GER	
6333	POYNTON-HILL, Dorothy	Berlin	1936	Aquatics	Diving	USA	
...	...	...	...	...	...	...	
7199	JOHANSSON, Ivar	Berlin	1936	Wrestling	Wrestling Gre-R	SWE	
7200	SCHWEIKERT, Ludwig	Berlin	1936	Wrestling	Wrestling Gre-R	GER	
7201	NEO, Ago (August)	Berlin	1936	Wrestling	Wrestling Gre-R	EST	
7202	CADIER, Axel	Berlin	1936	Wrestling	Wrestling Gre-R	SWE	
7203	BIETAGS, Edwins	Berlin	1936	Wrestling	Wrestling Gre-R	LAT	

	Gender	Event	Event_gender	Medal
6329	Men	10m platform	M	Bronze
6330	Men	10m platform	M	Gold
6331	Men	10m platform	M	Silver
6332	Women	10m platform	W	Bronze
6333	Women	10m platform	W	Gold
...	...	...	...	...
7199	Men	72 - 79kg (middleweight)	M	Gold
7200	Men	72 - 79kg (middleweight)	M	Silver
7201	Men	79 - 87kg (light-heavyweight)	M	Bronze
7202	Men	79 - 87kg (light-heavyweight)	M	Gold
7203	Men	79 - 87kg (light-heavyweight)	M	Silver

[875 rows x 10 columns]),  
(1948,

	Athlete	City	Edition	Sport	\
7204	CAPILLA PEREZ, Joaquin	London	1948	Aquatics	
7205	LEE, Samuel	London	1948	Aquatics	
7206	HARLAN, Bruce Ira	London	1948	Aquatics	
7207	CHRISTOFFERSEN-HANSON, Birte	London	1948	Aquatics	
7208	DRAVES, Victoria Manalo	London	1948	Aquatics	
...	...	...	...	...	
8013	GRÖNBERG, Axel	London	1948	Wrestling	
8014	TAYFUR, Muhlis	London	1948	Wrestling	
8015	ORABI, Ibrahim	London	1948	Wrestling	
8016	NILSSON, Karl-Erik	London	1948	Wrestling	
8017	GRÖNDAHL, Kelpo Olavi	London	1948	Wrestling	

	Discipline	NOC	Gender	Event	Event_gender	\
7204	Diving	MEX	Men	10m platform	M	

7205	Diving	USA	Men	10m platform	M
7206	Diving	USA	Men	10m platform	M
7207	Diving	DEN	Women	10m platform	W
7208	Diving	USA	Women	10m platform	W
...	...	...	...	...	...
8013	Wrestling Gre-R	SWE	Men	73 - 79kg (middleweight)	M
8014	Wrestling Gre-R	TUR	Men	73 - 79kg (middleweight)	M
8015	Wrestling Gre-R	EGY	Men	79 - 87kg (light-heavyweight)	M
8016	Wrestling Gre-R	SWE	Men	79 - 87kg (light-heavyweight)	M
8017	Wrestling Gre-R	FIN	Men	79 - 87kg (light-heavyweight)	M

	Medal
7204	Bronze
7205	Gold
7206	Silver
7207	Bronze
7208	Gold
...	...
8013	Gold
8014	Silver
8015	Bronze
8016	Gold
8017	Silver

[814 rows x 10 columns]),  
(1952,

	Athlete	City	Edition	Sport \
8018	HAASE, Günther	Helsinki	1952	Aquatics
8019	LEE, Samuel	Helsinki	1952	Aquatics
8020	CAPILLA PEREZ, Joaquin	Helsinki	1952	Aquatics
8021	STOVER-IRWIN, Juno Roslays	Helsinki	1952	Aquatics
8022	MCCORMICK, Patricia	Helsinki	1952	Aquatics
...	...	...	...	...
8902	GRÖNBERG, Axel	Helsinki	1952	Wrestling
8903	RAUHALA, Kalervo Juhani	Helsinki	1952	Wrestling
8904	NILSSON, Karl-Erik	Helsinki	1952	Wrestling
8905	GRÖNDAHL, Kelpo Olavi	Helsinki	1952	Wrestling
8906	CHIKHLADZE, Shalva	Helsinki	1952	Wrestling

	Discipline	NOC	Gender	Event	Event_gender \
8018	Diving	GER	Men	10m platform	M
8019	Diving	USA	Men	10m platform	M
8020	Diving	MEX	Men	10m platform	M
8021	Diving	USA	Women	10m platform	W
8022	Diving	USA	Women	10m platform	W
...	...	...	...	...	...
8902	Wrestling Gre-R	SWE	Men	73 - 79kg (middleweight)	M
8903	Wrestling Gre-R	FIN	Men	73 - 79kg (middleweight)	M
8904	Wrestling Gre-R	SWE	Men	79 - 87kg (light-heavyweight)	M

8905	Wrestling Gre-R	FIN	Men	79 - 87kg (light-heavyweight)	M
8906	Wrestling Gre-R	URS	Men	79 - 87kg (light-heavyweight)	M

	Medal
8018	Bronze
8019	Gold
8020	Silver
8021	Bronze
8022	Gold
...	...
8902	Gold
8903	Silver
8904	Bronze
8905	Gold
8906	Silver

[889 rows x 10 columns]),  
(1956,

	Athlete	City	Edition	Sport	\
8907	CONNER, Richard Carroll	Melbourne / Stockholm	1956	Aquatics	
8908	CAPILLA PEREZ, Joaquin	Melbourne / Stockholm	1956	Aquatics	
8909	TOBIAN, Gary Milburn	Melbourne / Stockholm	1956	Aquatics	
8910	MYERS-POPE, Paula Jean	Melbourne / Stockholm	1956	Aquatics	
8911	MCCORMICK, Patricia	Melbourne / Stockholm	1956	Aquatics	
...	...	...	...	...	...
9787	KARTOZIYA, Givi	Melbourne / Stockholm	1956	Wrestling	
9788	DOBREV, Dimitre Dimitrov	Melbourne / Stockholm	1956	Wrestling	
9789	NILSSON, Karl-Erik	Melbourne / Stockholm	1956	Wrestling	
9790	NIKOLAEV, Valentin	Melbourne / Stockholm	1956	Wrestling	
9791	SIRAKOV, Petko Atanasov	Melbourne / Stockholm	1956	Wrestling	

	Discipline	NOC	Gender	Event	Event_gender	\
8907	Diving	USA	Men	10m platform	M	
8908	Diving	MEX	Men	10m platform	M	
8909	Diving	USA	Men	10m platform	M	
8910	Diving	USA	Women	10m platform	W	
8911	Diving	USA	Women	10m platform	W	
...	...	...	...	...	...	...
9787	Wrestling Gre-R	URS	Men	73 - 79kg (middleweight)	M	
9788	Wrestling Gre-R	BUL	Men	73 - 79kg (middleweight)	M	
9789	Wrestling Gre-R	SWE	Men	79 - 87kg (light-heavyweight)	M	
9790	Wrestling Gre-R	URS	Men	79 - 87kg (light-heavyweight)	M	
9791	Wrestling Gre-R	BUL	Men	79 - 87kg (light-heavyweight)	M	

	Medal
8907	Bronze
8908	Gold
8909	Silver
8910	Bronze

8911 Gold  
 ...  
 9787 Gold  
 9788 Silver  
 9789 Bronze  
 9790 Gold  
 9791 Silver

[885 rows x 10 columns]),  
 (1960,

	Athlete	City	Edition	Sport	Discipline \
9792	PHELPS, Brian Eric	Rome	1960	Aquatics	Diving
9793	WEBSTER, Robert David	Rome	1960	Aquatics	Diving
9794	TOBIAN, Gary Milburn	Rome	1960	Aquatics	Diving
9795	KRUTOVA, Ninel	Rome	1960	Aquatics	Diving
9796	KRÄMER-ENGEL-GULBIN, Ingrid	Rome	1960	Aquatics	Diving
...	...	...	...	...	...
10669	DOBREV, Dimitre Dimitrov	Rome	1960	Wrestling	Wrestling Gre-R
10670	METZ, Lothar	Rome	1960	Wrestling	Wrestling Gre-R
10671	KARTOZIYA, Givi	Rome	1960	Wrestling	Wrestling Gre-R
10672	KIS, Tevfik	Rome	1960	Wrestling	Wrestling Gre-R
10673	BIMBALOV, Krali Peytchev	Rome	1960	Wrestling	Wrestling Gre-R

	NOC	Gender	Event	Event_gender	Medal
9792	GBR	Men	10m platform	M	Bronze
9793	USA	Men	10m platform	M	Gold
9794	USA	Men	10m platform	M	Silver
9795	URS	Women	10m platform	W	Bronze
9796	EUA	Women	10m platform	W	Gold
...	...	...	...	...	...
10669	BUL	Men	73 - 79kg (middleweight)	M	Gold
10670	EUA	Men	73 - 79kg (middleweight)	M	Silver
10671	URS	Men	79 - 87kg (light-heavyweight)	M	Bronze
10672	TUR	Men	79 - 87kg (light-heavyweight)	M	Gold
10673	BUL	Men	79 - 87kg (light-heavyweight)	M	Silver

[882 rows x 10 columns]),  
 (1964,

	Athlete	City	Edition	Sport	Discipline \
10674	GOMPF, Thomas Eugen	Tokyo	1964	Aquatics	Diving
10675	WEBSTER, Robert David	Tokyo	1964	Aquatics	Diving
10676	DIBIASI, Klaus	Tokyo	1964	Aquatics	Diving
10677	ALEKSEEVA, Galina	Tokyo	1964	Aquatics	Diving
10678	BUSH, Lesley Leigh	Tokyo	1964	Aquatics	Diving
...	...	...	...	...	...
11679	SIMIC, Branislav	Tokyo	1964	Wrestling	Wrestling Gre-R
11680	KORMANIK, Jiri	Tokyo	1964	Wrestling	Wrestling Gre-R
11681	KIEHL, Heinz	Tokyo	1964	Wrestling	Wrestling Gre-R
11682	RADEV, Boyan Aleksandrov	Tokyo	1964	Wrestling	Wrestling Gre-R

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11683      SVENSSON, Per Oscar Tokyo      1964 Wrestling Wrestling Gre-R

      NOC Gender                      Event Event_gender Medal
10674 USA Men 10m platform M Bronze
10675 USA Men 10m platform M Gold
10676 ITA Men 10m platform M Silver
10677 URS Women 10m platform W Bronze
10678 USA Women 10m platform W Gold
... ... ... ... ...
11679 YUG Men 78 - 87kg (middleweight) M Gold
11680 TCH Men 78 - 87kg (middleweight) M Silver
11681 EUA Men 87 - 97kg (light-heavyweight) M Bronze
11682 BUL Men 87 - 97kg (light-heavyweight) M Gold
11683 SWE Men 87 - 97kg (light-heavyweight) M Silver

[1010 rows x 10 columns]),
(1968,
      Athlete City Edition Sport Discipline \
11684 YOUNG, Edwin Frank Mexico 1968 Aquatics Diving
11685 DIBIASI, Klaus Mexico 1968 Aquatics Diving
11686 GAXIOLA ROBLES, Alvaro Mexico 1968 Aquatics Diving
11687 PETERSON, Ann Stewart Mexico 1968 Aquatics Diving
11688 DUCHKOVA, Milena Mexico 1968 Aquatics Diving
... ... ... ... ...
12710 METZ, Lothar Mexico 1968 Wrestling Wrestling Gre-R
12711 OLEINIK, Valentin Mexico 1968 Wrestling Wrestling Gre-R
12712 MARTINESCU, Nicolae Mexico 1968 Wrestling Wrestling Gre-R
12713 RADEV, Boyan Aleksandrov Mexico 1968 Wrestling Wrestling Gre-R
12714 YAKOVENKO, Nikolai Mexico 1968 Wrestling Wrestling Gre-R

      NOC Gender                      Event Event_gender Medal
11684 USA Men 10m platform M Bronze
11685 ITA Men 10m platform M Gold
11686 MEX Men 10m platform M Silver
11687 USA Women 10m platform W Bronze
11688 TCH Women 10m platform W Gold
... ... ... ... ...
12710 GDR Men 78 - 87kg (middleweight) M Gold
12711 URS Men 78 - 87kg (middleweight) M Silver
12712 ROU Men 87 - 97kg (light-heavyweight) M Bronze
12713 BUL Men 87 - 97kg (light-heavyweight) M Gold
12714 URS Men 87 - 97kg (light-heavyweight) M Silver

[1031 rows x 10 columns]),
(1972,
      Athlete City Edition Sport Discipline \
12715 CAGNOTTO, Giorgio Franco Munich 1972 Aquatics Diving
12716 DIBIASI, Klaus Munich 1972 Aquatics Diving
12717 RYDZE, Richard Anthony Munich 1972 Aquatics Diving

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12718	JANICKE, Marina	Munich	1972	Aquatics	Diving
12719	KNAPE-LINDBERGH, Ulrika	Munich	1972	Aquatics	Diving
...	...	...	...	...	...
13895	REZANTSEV, Valeri	Munich	1972	Wrestling	Wrestling Gre-R
13896	CORAK, Josip	Munich	1972	Wrestling	Wrestling Gre-R
13897	KISS, Ferenc	Munich	1972	Wrestling	Wrestling Gre-R
13898	MARTINESCU, Nicolae	Munich	1972	Wrestling	Wrestling Gre-R
13899	YAKOVENKO, Nikolai	Munich	1972	Wrestling	Wrestling Gre-R

	NOC	Gender		Event	Event_gender	Medal
12715	ITA	Men	10m	platform	M	Bronze
12716	ITA	Men	10m	platform	M	Gold
12717	USA	Men	10m	platform	M	Silver
12718	GDR	Women	10m	platform	W	Bronze
12719	SWE	Women	10m	platform	W	Gold
...	...	...	...	...	...	...
13895	URS	Men	82 - 90kg	(light-heavyweight)	M	Gold
13896	YUG	Men	82 - 90kg	(light-heavyweight)	M	Silver
13897	HUN	Men	90 - 100kg	(heavyweight)	M	Bronze
13898	ROU	Men	90 - 100kg	(heavyweight)	M	Gold
13899	URS	Men	90 - 100kg	(heavyweight)	M	Silver

[1185 rows x 10 columns],  
(1976,

	Athlete	City	Edition	Sport	Discipline \
13900	ALEINIK, Vladimir	Montreal	1976	Aquatics	Diving
13901	DIBIASI, Klaus	Montreal	1976	Aquatics	Diving
13902	LOUGANIS, Gregory	Montreal	1976	Aquatics	Diving
13903	WILSON, Deborah Keplar	Montreal	1976	Aquatics	Diving
13904	VAYTSEKHOVSKAYA, Elena	Montreal	1976	Aquatics	Diving
...	...	...	...	...	...
15200	REZANTSEV, Valeri	Montreal	1976	Wrestling	Wrestling Gre-R
15201	IVANOV, Stoyan	Montreal	1976	Wrestling	Wrestling Gre-R
15202	SKRZYDLEWSKI, Andrzej	Montreal	1976	Wrestling	Wrestling Gre-R
15203	BALBOSHIN, Nikolai	Montreal	1976	Wrestling	Wrestling Gre-R
15204	GORANOV, Kamen	Montreal	1976	Wrestling	Wrestling Gre-R

	NOC	Gender		Event	Event_gender	Medal
13900	URS	Men	10m	platform	M	Bronze
13901	ITA	Men	10m	platform	M	Gold
13902	USA	Men	10m	platform	M	Silver
13903	USA	Women	10m	platform	W	Bronze
13904	URS	Women	10m	platform	W	Gold
...	...	...	...	...	...	...
15200	URS	Men	82 - 90kg	(light-heavyweight)	M	Gold
15201	BUL	Men	82 - 90kg	(light-heavyweight)	M	Silver
15202	POL	Men	90 - 100kg	(heavyweight)	M	Bronze
15203	URS	Men	90 - 100kg	(heavyweight)	M	Gold
15204	BUL	Men	90 - 100kg	(heavyweight)	M	Silver



[1305 rows x 10 columns]],

(1980,

	Athlete	City	Edition	Sport	Discipline	NOC	\
15205	AMBARTSUMYAN, David	Moscow	1980	Aquatics	Diving	URS	
15206	HOFFMANN, Falk	Moscow	1980	Aquatics	Diving	GDR	
15207	ALEINIK, Vladimir	Moscow	1980	Aquatics	Diving	URS	
15208	TSOTADZE, Liana	Moscow	1980	Aquatics	Diving	URS	
15209	JÄSCHKE, Martina	Moscow	1980	Aquatics	Diving	GDR	
...	...	...	...	...	...	...	
16587	NOTTNY, Norbert	Moscow	1980	Wrestling	Wrestling Gre-R	HUN	
16588	KANYGIN, Igor	Moscow	1980	Wrestling	Wrestling Gre-R	URS	
16589	ANDREI, Vasile	Moscow	1980	Wrestling	Wrestling Gre-R	ROU	
16590	RAIKOV, Georgi	Moscow	1980	Wrestling	Wrestling Gre-R	BUL	
16591	BIERLA, Roman	Moscow	1980	Wrestling	Wrestling Gre-R	POL	

	Gender		Event	Event_gender	Medal
15205	Men		10m platform	M	Bronze
15206	Men		10m platform	M	Gold
15207	Men		10m platform	M	Silver
15208	Women		10m platform	W	Bronze
15209	Women		10m platform	W	Gold
...	...		...	...	...
16587	Men	82 - 90kg (light-heavyweight)		M	Gold
16588	Men	82 - 90kg (light-heavyweight)		M	Silver
16589	Men	90 - 100kg (heavyweight)		M	Bronze
16590	Men	90 - 100kg (heavyweight)		M	Gold
16591	Men	90 - 100kg (heavyweight)		M	Silver

[1387 rows x 10 columns]],

(1984,

	Athlete	City	Edition	Sport	\
16592	LI, Kong-Zheng	Los Angeles	1984	Aquatics	
16593	LOUGANIS, Gregory	Los Angeles	1984	Aquatics	
16594	KIMBALL, Bruce D.	Los Angeles	1984	Aquatics	
16595	WYLAND-WILLIAMS, Wendy Lian	Los Angeles	1984	Aquatics	
16596	ZHOU, Ji-Hong	Los Angeles	1984	Aquatics	
...	...	...	...	...	
18046	FRASER, Steven Howard	Los Angeles	1984	Wrestling	
18047	MATEI, Ilie	Los Angeles	1984	Wrestling	
18048	TERTELIJE, Jozef	Los Angeles	1984	Wrestling	
18049	ANDREI, Vasile	Los Angeles	1984	Wrestling	
18050	GIBSON, Gregory P.	Los Angeles	1984	Wrestling	

	Discipline	NOC	Gender	Event	\
16592	Diving	CHN	Men	10m platform	
16593	Diving	USA	Men	10m platform	
16594	Diving	USA	Men	10m platform	
16595	Diving	USA	Women	10m platform	

16596	Diving	CHN	Women	10m platform
...	...	...	...	...
18046	Wrestling Gre-R	USA	Men	82 - 90kg (light-heavyweight)
18047	Wrestling Gre-R	ROU	Men	82 - 90kg (light-heavyweight)
18048	Wrestling Gre-R	YUG	Men	90 - 100kg (heavyweight)
18049	Wrestling Gre-R	ROU	Men	90 - 100kg (heavyweight)
18050	Wrestling Gre-R	USA	Men	90 - 100kg (heavyweight)

	Event_gender	Medal
16592	M	Bronze
16593	M	Gold
16594	M	Silver
16595	W	Bronze
16596	W	Gold
...	...	...
18046	M	Gold
18047	M	Silver
18048	M	Bronze
18049	M	Gold
18050	M	Silver

[1459 rows x 10 columns],  
(1988,

	Athlete	City	Edition	Sport \
18051	MENA CAMPOS, Jesus	Seoul	1988	Aquatics
18052	LOUGANIS, Gregory	Seoul	1988	Aquatics
18053	XIONG, Ni	Seoul	1988	Aquatics
18054	WYLAND-WILLIAMS, Wendy Lian	Seoul	1988	Aquatics
18055	XU, Yan-Mei	Seoul	1988	Aquatics
...	...	...	...	...
19592	KOMCHEV, Atanas Slavov	Seoul	1988	Wrestling
19593	KOSKELA, Harri Matias	Seoul	1988	Wrestling
19594	KOSLOWSKI, Dennis Marvin	Seoul	1988	Wrestling
19595	WRONSKI, Andrzej	Seoul	1988	Wrestling
19596	HIMMEL, Gerhard	Seoul	1988	Wrestling

	Discipline	NOC	Gender	Event \
18051	Diving	MEX	Men	10m platform
18052	Diving	USA	Men	10m platform
18053	Diving	CHN	Men	10m platform
18054	Diving	USA	Women	10m platform
18055	Diving	CHN	Women	10m platform
...	...	...	...	...
19592	Wrestling Gre-R	BUL	Men	82 - 90kg (light-heavyweight)
19593	Wrestling Gre-R	FIN	Men	82 - 90kg (light-heavyweight)
19594	Wrestling Gre-R	USA	Men	90 - 100kg (heavyweight)
19595	Wrestling Gre-R	POL	Men	90 - 100kg (heavyweight)
19596	Wrestling Gre-R	FRG	Men	90 - 100kg (heavyweight)

	Event_gender	Medal
18051	M	Bronze
18052	M	Gold
18053	M	Silver
18054	W	Bronze
18055	W	Gold
...	...	...
19592	M	Gold
19593	M	Silver
19594	M	Bronze
19595	M	Gold
19596	M	Silver

```
[1546 rows x 10 columns]),
(1992,
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	Athlete	City	Edition	Sport \
19597	XIONG, Ni	Barcelona	1992	Aquatics
19598	SUN, Shuwei	Barcelona	1992	Aquatics
19599	DONIE, Scott R.	Barcelona	1992	Aquatics
19600	CLARK, Mary Ellen	Barcelona	1992	Aquatics
19601	FU, Mingxia	Barcelona	1992	Aquatics
...	...	...	...	...
21297	BULLMANN, Maik	Barcelona	1992	Wrestling
21298	BASAR, Hakki	Barcelona	1992	Wrestling
21299	DEMIACHKIEVITCH, Serguei	Barcelona	1992	Wrestling
21300	MILIAN PEREZ, Hector	Barcelona	1992	Wrestling
21301	KOSLOWSKI, Dennis Marvin	Barcelona	1992	Wrestling

	Discipline	NOC	Gender	Event \
19597	Diving	CHN	Men	10m platform
19598	Diving	CHN	Men	10m platform
19599	Diving	USA	Men	10m platform
19600	Diving	USA	Women	10m platform
19601	Diving	CHN	Women	10m platform
...	...	...	...	...
21297	Wrestling Gre-R	GER	Men	82 - 90kg (light-heavyweight)
21298	Wrestling Gre-R	TUR	Men	82 - 90kg (light-heavyweight)
21299	Wrestling Gre-R	EUN	Men	90 - 100kg (heavyweight)
21300	Wrestling Gre-R	CUB	Men	90 - 100kg (heavyweight)
21301	Wrestling Gre-R	USA	Men	90 - 100kg (heavyweight)

	Event_gender	Medal
19597	M	Bronze
19598	M	Gold
19599	M	Silver
19600	W	Bronze
19601	W	Gold
...	...	...
21297	M	Gold

21298 M Silver  
 21299 M Bronze  
 21300 M Gold  
 21301 M Silver

[1705 rows x 10 columns]),  
 (1996,

	Athlete	City	Edition	Sport	Discipline	NOC	\
21302	XIAO, Hailiang	Atlanta	1996	Aquatics	Diving	CHN	
21303	SAUTIN, Dmitry	Atlanta	1996	Aquatics	Diving	RUS	
21304	HEMPEL, Jan	Atlanta	1996	Aquatics	Diving	GER	
21305	CLARK, Mary Ellen	Atlanta	1996	Aquatics	Diving	USA	
21306	FU, Mingxia	Atlanta	1996	Aquatics	Diving	CHN	
...	...	...	...	...	...	...	
23156	OLEYNYK, Vyacheslav	Atlanta	1996	Wrestling	Wrestling Gre-R	UKR	
23157	FAFINSKI, Jacek	Atlanta	1996	Wrestling	Wrestling Gre-R	POL	
23158	LJUNGBERG, Mikael	Atlanta	1996	Wrestling	Wrestling Gre-R	SWE	
23159	WRONSKI, Andrzej	Atlanta	1996	Wrestling	Wrestling Gre-R	POL	
23160	LISHTVAN, Sergey	Atlanta	1996	Wrestling	Wrestling Gre-R	BLR	

	Gender	Event	Event_gender	Medal
21302	Men	10m platform	M	Bronze
21303	Men	10m platform	M	Gold
21304	Men	10m platform	M	Silver
21305	Women	10m platform	W	Bronze
21306	Women	10m platform	W	Gold
...	...	...	...	...
23156	Men	82 - 90kg (light-heavyweight)	M	Gold
23157	Men	82 - 90kg (light-heavyweight)	M	Silver
23158	Men	90 - 100kg (heavyweight)	M	Bronze
23159	Men	90 - 100kg (heavyweight)	M	Gold
23160	Men	90 - 100kg (heavyweight)	M	Silver

[1859 rows x 10 columns]),  
 (2000,

	Athlete	City	Edition	Sport	Discipline	\
23161	SAUTIN, Dmitry	Sydney	2000	Aquatics	Diving	
23162	TIAN, Liang	Sydney	2000	Aquatics	Diving	
23163	HU, Jia	Sydney	2000	Aquatics	Diving	
23164	MONTMINY, Anne Katherine	Sydney	2000	Aquatics	Diving	
23165	WILKINSON, Laura	Sydney	2000	Aquatics	Diving	
...	...	...	...	...	...	
25171	LJUNGBERG, Mikael	Sydney	2000	Wrestling	Wrestling Gre-R	
25172	SALDADZE, Davyd	Sydney	2000	Wrestling	Wrestling Gre-R	
25173	DEBELKA, Dmitry	Sydney	2000	Wrestling	Wrestling Gre-R	
25174	GARDNER, Rulon	Sydney	2000	Wrestling	Wrestling Gre-R	
25175	KARELIN, Aleksandr	Sydney	2000	Wrestling	Wrestling Gre-R	

NOC	Gender	Event	Event_gender	Medal
-----	--------	-------	--------------	-------

23161	RUS	Men	10m platform	M	Bronze
23162	CHN	Men	10m platform	M	Gold
23163	CHN	Men	10m platform	M	Silver
23164	CAN	Women	10m platform	W	Bronze
23165	USA	Women	10m platform	W	Gold
...	...	...	...	...	...
25171	SWE	Men	85 - 97kg	M	Gold
25172	UKR	Men	85 - 97kg	M	Silver
25173	BLR	Men	97 - 130kg	M	Bronze
25174	USA	Men	97 - 130kg	M	Gold
25175	RUS	Men	97 - 130kg	M	Silver

[2015 rows x 10 columns]),  
(2004,

	Athlete	City	Edition	Sport	Discipline	NOC	\
25176	TIAN, Liang	Athens	2004	Aquatics	Diving	CHN	
25177	HU, Jia	Athens	2004	Aquatics	Diving	CHN	
25178	HELM, Mathew	Athens	2004	Aquatics	Diving	AUS	
25179	TOURKY, Loudy	Athens	2004	Aquatics	Diving	AUS	
25180	NEWBERY, Chantelle	Athens	2004	Aquatics	Diving	AUS	
...	...	...	...	...	...	...	...
27169	GABER IBRAHIM, Karam	Athens	2004	Wrestling	Wrestling Gre-R	EGY	
27170	NOZADZE, Ramaz	Athens	2004	Wrestling	Wrestling Gre-R	GEO	
27171	GARDNER, Rulon	Athens	2004	Wrestling	Wrestling Gre-R	USA	
27172	BAROEV, Khasan	Athens	2004	Wrestling	Wrestling Gre-R	RUS	
27173	TSURTSUMIA, Georgiy	Athens	2004	Wrestling	Wrestling Gre-R	KAZ	

	Gender	Event	Event_gender	Medal
25176	Men	10m platform	M	Bronze
25177	Men	10m platform	M	Gold
25178	Men	10m platform	M	Silver
25179	Women	10m platform	W	Bronze
25180	Women	10m platform	W	Gold
...	...	...	...	...
27169	Men	84 - 96kg	M	Gold
27170	Men	84 - 96kg	M	Silver
27171	Men	96 - 120kg	M	Bronze
27172	Men	96 - 120kg	M	Gold
27173	Men	96 - 120kg	M	Silver

[1998 rows x 10 columns]),  
(2008,

	Athlete	City	Edition	Sport	Discipline	\
27174	GALPERIN, Gleb	Beijing	2008	Aquatics	Diving	
27175	MITCHAM, Matthew	Beijing	2008	Aquatics	Diving	
27176	ZHOU, Luxin	Beijing	2008	Aquatics	Diving	
27177	WANG, Xin	Beijing	2008	Aquatics	Diving	
27178	CHEN, Ruolin	Beijing	2008	Aquatics	Diving	
...	...	...	...	...	...	...

29211	ENGLISH, Mirko	Beijing	2008	Wrestling	Wrestling	Gre-R
29212	MIZGAITIS, Mindaugas	Beijing	2008	Wrestling	Wrestling	Gre-R
29213	PATRIKEEV, Yuri	Beijing	2008	Wrestling	Wrestling	Gre-R
29214	LOPEZ, Mijain	Beijing	2008	Wrestling	Wrestling	Gre-R
29215	BAROEV, Khasan	Beijing	2008	Wrestling	Wrestling	Gre-R

	NOC	Gender	Event	Event_gender	Medal
27174	RUS	Men	10m platform	M	Bronze
27175	AUS	Men	10m platform	M	Gold
27176	CHN	Men	10m platform	M	Silver
27177	CHN	Women	10m platform	W	Bronze
27178	CHN	Women	10m platform	W	Gold
...	...	...	...	...	...
29211	GER	Men	84 - 96kg	M	Silver
29212	LTU	Men	96 - 120kg	M	Bronze
29213	ARM	Men	96 - 120kg	M	Bronze
29214	CUB	Men	96 - 120kg	M	Gold
29215	RUS	Men	96 - 120kg	M	Silver

[2042 rows x 10 columns]]

In [171...

```
for group_key, group_value in df.groupby('Edition'):
    print(group_key)
    print(group_value)
```

1896

	Athlete	City	Edition	Sport \
0	HAJOS, Alfred	Athens	1896	Aquatics
1	HERSCHMANN, Otto	Athens	1896	Aquatics
2	DRIVAS, Dimitrios	Athens	1896	Aquatics
3	MALOKINIS, Ioannis	Athens	1896	Aquatics
4	CHASAPIS, Spiridon	Athens	1896	Aquatics
..	...	...	...	...
146	JENSEN, Viggo	Athens	1896	Weightlifting
147	ELLIOTT, Launceston	Athens	1896	Weightlifting
148	CHRISTOPOULOS, Stephanos	Athens	1896	Wrestling
149	SCHUMANN, Carl	Athens	1896	Wrestling
150	TSITAS, Georgios	Athens	1896	Wrestling

	Discipline	NOC	Gender	Event	Event_gender \
0	Swimming	HUN	Men	100m freestyle	M
1	Swimming	AUT	Men	100m freestyle	M
2	Swimming	GRE	Men	100m freestyle for sailors	M
3	Swimming	GRE	Men	100m freestyle for sailors	M
4	Swimming	GRE	Men	100m freestyle for sailors	M
..	...	...	...	...	...
146	Weightlifting	DEN	Men	heavyweight - two hand lift	M
147	Weightlifting	GBR	Men	heavyweight - two hand lift	M

148	Wrestling Gre-R	GRE	Men	open event	M
149	Wrestling Gre-R	GER	Men	open event	M
150	Wrestling Gre-R	GRE	Men	open event	M

	Medal
0	Gold
1	Silver
2	Bronze
3	Gold
4	Silver
..	...
146	Gold
147	Silver
148	Bronze
149	Gold
150	Silver

[151 rows x 10 columns]

1900

	Athlete	City	Edition	Sport \
151	HALMAY, Zoltan	Paris	1900	Aquatics
152	JARVIS, John Arthur	Paris	1900	Aquatics
153	WAHLE, Otto	Paris	1900	Aquatics
154	DROST, Johannes	Paris	1900	Aquatics
155	HOPPENBERG, Ernst	Paris	1900	Aquatics
..	...	...	...	...
658	COLLAS, Jean	Paris	1900	Tug of War
659	GONDOUIN, Charles	Paris	1900	Tug of War
660	HENRIQUEZ DE ZUBIERRA, Constantin	Paris	1900	Tug of War
661	ROFFO, Joseph	Paris	1900	Tug of War
662	SARRADE, Emile	Paris	1900	Tug of War

	Discipline	NOC	Gender	Event	Event_gender	Medal
151	Swimming	HUN	Men	1500m freestyle	M	Bronze
152	Swimming	GBR	Men	1500m freestyle	M	Gold
153	Swimming	AUT	Men	1500m freestyle	M	Silver
154	Swimming	NED	Men	200m backstroke	M	Bronze
155	Swimming	GER	Men	200m backstroke	M	Gold
..	...	...	...	...	...	...
658	Tug of War	FRA	Men	tug of war	M	Silver
659	Tug of War	FRA	Men	tug of war	M	Silver
660	Tug of War	FRA	Men	tug of war	M	Silver
661	Tug of War	FRA	Men	tug of war	M	Silver
662	Tug of War	FRA	Men	tug of war	M	Silver

[512 rows x 10 columns]

1904

	Athlete	City	Edition	Sport	Discipline \
663	BRAUNSCHWEIGER, Alfred	St Louis	1904	Aquatics	Diving

664	KEHOE, Frank	St Louis	1904	Aquatics	Diving
665	SHELDON, George	St Louis	1904	Aquatics	Diving
666	HOFFMANN, Georg	St Louis	1904	Aquatics	Diving
667	GOODWIN, Leo Budd	St Louis	1904	Aquatics	Diving
...	...	...	...	...	...
1128	ROEHM, Otto F.	St Louis	1904	Wrestling	Wrestling Free.
1129	TESING, Rudolph	St Louis	1904	Wrestling	Wrestling Free.
1130	WINHOLTZ, Jerry	St Louis	1904	Wrestling	Wrestling Free.
1131	ERICKSEN, Charles	St Louis	1904	Wrestling	Wrestling Free.
1132	BECKMANN, William	St Louis	1904	Wrestling	Wrestling Free.

	NOC	Gender		Event	Event_gender	Medal
663	GER	Men		10m platform	M	Bronze
664	USA	Men		10m platform	M	Bronze
665	USA	Men		10m platform	M	Gold
666	GER	Men		10m platform	M	Silver
667	USA	Men		plunge for distance	M	Bronze
...	...	...		...	...	...
1128	USA	Men	61.23 - 65.77kg (lightweight)		M	Gold
1129	USA	Men	61.23 - 65.77kg (lightweight)		M	Silver
1130	USA	Men	65.77 - 71.67kg (welterweight)		M	Bronze
1131	USA	Men	65.77 - 71.67kg (welterweight)		M	Gold
1132	USA	Men	65.77 - 71.67kg (welterweight)		M	Silver

[470 rows x 10 columns]

1908

	Athlete	City	Edition	Sport	Discipline \
1133	SPANGBERG, Arvid	London	1908	Aquatics	Diving
1134	JOHANSSON, Hjalmar	London	1908	Aquatics	Diving
1135	MALMSTRÖM, Karl	London	1908	Aquatics	Diving
1136	GAIDZIK, George William	London	1908	Aquatics	Diving
1137	WALZ, Gottlob	London	1908	Aquatics	Diving
...	...	...	...	...	...
1932	MARTENSSON, Frithiof M.	London	1908	Wrestling	Wrestling Gre-R
1933	ANDERSSON, Mauritz	London	1908	Wrestling	Wrestling Gre-R
1934	JENSEN, Carl Marinus	London	1908	Wrestling	Wrestling Gre-R
1935	WECKMAN, Werner	London	1908	Wrestling	Wrestling Gre-R
1936	SAARELA, Urjö Erik Mikael	London	1908	Wrestling	Wrestling Gre-R

	NOC	Gender		Event	Event_gender	Medal
1133	SWE	Men		10m platform	M	Bronze
1134	SWE	Men		10m platform	M	Gold
1135	SWE	Men		10m platform	M	Silver
1136	USA	Men		3m springboard	M	Bronze
1137	GER	Men		3m springboard	M	Bronze
...	...	...		...	...	...
1932	SWE	Men	66.6 - 73kg (middleweight)		M	Gold
1933	SWE	Men	66.6 - 73kg (middleweight)		M	Silver
1934	DEN	Men	73 - 93kg (light-heavyweight)		M	Bronze



1935	FIN	Men	73 - 93kg (light-heavyweight)	M	Gold
1936	FIN	Men	73 - 93kg (light-heavyweight)	M	Silver

[804 rows x 10 columns]

1912

	Athlete	City	Edition	Sport	Discipline \
1937	BLOMGREN, Gustaf	Stockholm	1912	Aquatics	Diving
1938	ADLERZ, Erik	Stockholm	1912	Aquatics	Diving
1939	ZÜRNER, Albert	Stockholm	1912	Aquatics	Diving
1940	WHITE, Isabella Mary	Stockholm	1912	Aquatics	Diving
1941	JOHANSSON, Greta	Stockholm	1912	Aquatics	Diving
...	...	...	...	...	...
2817	JOHANSSON, Claes	Stockholm	1912	Wrestling	Wrestling Gre-R
2818	KLEIN, Martin	Stockholm	1912	Wrestling	Wrestling Gre-R
2819	VARGA, Béla	Stockholm	1912	Wrestling	Wrestling Gre-R
2820	AHLGREN, Anders	Stockholm	1912	Wrestling	Wrestling Gre-R
2821	BÖHLING, Ivar Theodor	Stockholm	1912	Wrestling	Wrestling Gre-R

	NOC	Gender	Event	Event_gender	Medal
1937	SWE	Men	10m platform	M	Bronze
1938	SWE	Men	10m platform	M	Gold
1939	GER	Men	10m platform	M	Silver
1940	GBR	Women	10m platform	W	Bronze
1941	SWE	Women	10m platform	W	Gold
...	...	...	...	...	...
2817	SWE	Men	67.5 - 75kg (middleweight)	M	Gold
2818	RUI	Men	67.5 - 75kg (middleweight)	M	Silver
2819	HUN	Men	75 - 82.5kg (light-heavyweight)	M	Bronze
2820	SWE	Men	75 - 82.5kg (light-heavyweight)	M	Silver
2821	FIN	Men	75 - 82.5kg (light-heavyweight)	M	Silver

[885 rows x 10 columns]

1920

	Athlete	City	Edition	Sport \
2822	PRIESTE, Harry	Antwerp	1920	Aquatics
2823	PINKSTON, Clarence	Antwerp	1920	Aquatics
2824	ADLERZ, Erik	Antwerp	1920	Aquatics
2825	OLLIVIER, Eva	Antwerp	1920	Aquatics
2826	FRYLAND CLAUSEN, Stefani	Antwerp	1920	Aquatics
...	...	...	...	...
4115	WESTERGREN, Carl	Antwerp	1920	Wrestling
4116	LINDFORS, Arthur	Antwerp	1920	Wrestling
4117	ERIKSEN, Johannes Thorvald	Antwerp	1920	Wrestling
4118	JOHANSSON, Claes	Antwerp	1920	Wrestling
4119	ROSENQVIST, Edil	Antwerp	1920	Wrestling

	Discipline	NOC	Gender	Event	Event_gender	\
2822	Diving	USA	Men	10m platform	M	
2823	Diving	USA	Men	10m platform	M	

2824	Diving	SWE	Men	10m platform	M
2825	Diving	SWE	Women	10m platform	W
2826	Diving	DEN	Women	10m platform	W
...	...	...	...	...	...
4115	Wrestling Gre-R	SWE	Men	67.5 - 75kg (middleweight)	M
4116	Wrestling Gre-R	FIN	Men	67.5 - 75kg (middleweight)	M
4117	Wrestling Gre-R	DEN	Men	75 - 82kg (light-heavyweight)	M
4118	Wrestling Gre-R	SWE	Men	75 - 82kg (light-heavyweight)	M
4119	Wrestling Gre-R	FIN	Men	75 - 82kg (light-heavyweight)	M

	Medal
2822	Bronze
2823	Gold
2824	Silver
2825	Bronze
2826	Gold
...	...
4115	Gold
4116	Silver
4117	Bronze
4118	Gold
4119	Silver

[1298 rows x 10 columns]

1924

	Athlete	City	Edition	Sport	Discipline \
4120	PINKSTON, Clarence	Paris	1924	Aquatics	Diving
4121	WHITE, Albert	Paris	1924	Aquatics	Diving
4122	FALL, David	Paris	1924	Aquatics	Diving
4123	TÖPEL, Hjärdis	Paris	1924	Aquatics	Diving
4124	SMITH, Caroline	Paris	1924	Aquatics	Diving
...	...	...	...	...	...
4999	WESTERLUND, Edward Wilhelm	Paris	1924	Wrestling	Wrestling Gre-R
5000	LINDFORS, Arthur	Paris	1924	Wrestling	Wrestling Gre-R
5001	PELLINEN, Onni	Paris	1924	Wrestling	Wrestling Gre-R
5002	WESTERGREN, Carl	Paris	1924	Wrestling	Wrestling Gre-R
5003	SVENSSON, Rudolf	Paris	1924	Wrestling	Wrestling Gre-R

	NOC	Gender	Event	Event_gender	Medal
4120	USA	Men	10m platform	M	Bronze
4121	USA	Men	10m platform	M	Gold
4122	USA	Men	10m platform	M	Silver
4123	SWE	Women	10m platform	W	Bronze
4124	USA	Women	10m platform	W	Gold
...	...	...	...	...	...
4999	FIN	Men	67.5 - 75kg (middleweight)	M	Gold
5000	FIN	Men	67.5 - 75kg (middleweight)	M	Silver
5001	FIN	Men	75 - 82.5kg (light-heavyweight)	M	Bronze
5002	SWE	Men	75 - 82.5kg (light-heavyweight)	M	Gold

5003 SWE Men 75 - 82.5kg (light-heavyweight) M Silver

[884 rows x 10 columns]

1928

	Athlete	City	Edition	Sport \
5004	GALITZEN, Michael Riley	Amsterdam	1928	Aquatics
5005	DESJARDINS, Ulise Joseph "Peter"	Amsterdam	1928	Aquatics
5006	SIMAIKA, Farid	Amsterdam	1928	Aquatics
5007	SJÖQVIST, Laura	Amsterdam	1928	Aquatics
5008	BECKER-PINKSTON, Elizabeth	Amsterdam	1928	Aquatics
...	...	...	...	...
5709	KOKKINEN, Väinö Anselmi	Amsterdam	1928	Wrestling
5710	PAPP, L.	Amsterdam	1928	Wrestling
5711	PELLINEN, Onni	Amsterdam	1928	Wrestling
5712	MOUSTAPHA, Ibrahim	Amsterdam	1928	Wrestling
5713	RIEGER, A.	Amsterdam	1928	Wrestling

	Discipline	NOC	Gender	Event \
5004	Diving	USA	Men	10m platform
5005	Diving	USA	Men	10m platform
5006	Diving	EGY	Men	10m platform
5007	Diving	SWE	Women	10m platform
5008	Diving	USA	Women	10m platform
...	...	...	...	...
5709	Wrestling Gre-R	FIN	Men	67.5 - 75kg (middleweight)
5710	Wrestling Gre-R	HUN	Men	67.5 - 75kg (middleweight)
5711	Wrestling Gre-R	FIN	Men	75 - 82.5kg (light-heavyweight)
5712	Wrestling Gre-R	EGY	Men	75 - 82.5kg (light-heavyweight)
5713	Wrestling Gre-R	GER	Men	75 - 82.5kg (light-heavyweight)

	Event_gender	Medal
5004	M	Bronze
5005	M	Gold
5006	M	Silver
5007	W	Bronze
5008	W	Gold
...	...	...
5709	M	Gold
5710	M	Silver
5711	M	Bronze
5712	M	Gold
5713	M	Silver

[710 rows x 10 columns]

1932

	Athlete	City	Edition	Sport \
5714	KURTZ, Frank Allen	Los Angeles	1932	Aquatics
5715	SMITH, Harold Edwin	Los Angeles	1932	Aquatics
5716	GALITZEN, Michael Riley	Los Angeles	1932	Aquatics

5717	ROPER, Marion Dale	Los Angeles	1932	Aquatics
5718	POYNTON-HILL, Dorothy	Los Angeles	1932	Aquatics
...	...	...	...	...
6324	KOKKINEN, Väinö Anselmi	Los Angeles	1932	Wrestling
6325	FÖLDEÁK, Jean	Los Angeles	1932	Wrestling
6326	GRUPPIONI, Mario	Los Angeles	1932	Wrestling
6327	SVENSSON, Rudolf	Los Angeles	1932	Wrestling
6328	PELLINEN, Onni	Los Angeles	1932	Wrestling

	Discipline	NOC	Gender		Event	Event_gender	\
5714	Diving	USA	Men		10m platform	M	
5715	Diving	USA	Men		10m platform	M	
5716	Diving	USA	Men		10m platform	M	
5717	Diving	USA	Women		10m platform	W	
5718	Diving	USA	Women		10m platform	W	
...	...	...	...		...	...	
6324	Wrestling Gre-R	FIN	Men	72 - 79kg (middleweight)		M	
6325	Wrestling Gre-R	GER	Men	72 - 79kg (middleweight)		M	
6326	Wrestling Gre-R	ITA	Men	79 - 87kg (light-heavyweight)		M	
6327	Wrestling Gre-R	SWE	Men	79 - 87kg (light-heavyweight)		M	
6328	Wrestling Gre-R	FIN	Men	79 - 87kg (light-heavyweight)		M	

	Medal
5714	Bronze
5715	Gold
5716	Silver
5717	Bronze
5718	Gold
...	...
6324	Gold
6325	Silver
6326	Bronze
6327	Gold
6328	Silver

[615 rows x 10 columns]  
1936

	Athlete	City	Edition	Sport	Discipline	NOC	\
6329	STORK, Hermann	Berlin	1936	Aquatics	Diving	GER	
6330	WAYNE, Marshall	Berlin	1936	Aquatics	Diving	USA	
6331	ROOT, Elbert Alonzo	Berlin	1936	Aquatics	Diving	USA	
6332	KÖHLER, Käthe	Berlin	1936	Aquatics	Diving	GER	
6333	POYNTON-HILL, Dorothy	Berlin	1936	Aquatics	Diving	USA	
...	...	...	...	...	...	...	
7199	JOHANSSON, Ivar	Berlin	1936	Wrestling	Wrestling Gre-R	SWE	
7200	SCHWEIKERT, Ludwig	Berlin	1936	Wrestling	Wrestling Gre-R	GER	
7201	NEO, Ago (August)	Berlin	1936	Wrestling	Wrestling Gre-R	EST	
7202	CADIER, Axel	Berlin	1936	Wrestling	Wrestling Gre-R	SWE	
7203	BIETAGS, Edwins	Berlin	1936	Wrestling	Wrestling Gre-R	LAT	

	Gender		Event	Event_gender	Medal
6329	Men		10m platform	M	Bronze
6330	Men		10m platform	M	Gold
6331	Men		10m platform	M	Silver
6332	Women		10m platform	W	Bronze
6333	Women		10m platform	W	Gold
...	...		...	...	...
7199	Men	72 - 79kg (middleweight)		M	Gold
7200	Men	72 - 79kg (middleweight)		M	Silver
7201	Men	79 - 87kg (light-heavyweight)		M	Bronze
7202	Men	79 - 87kg (light-heavyweight)		M	Gold
7203	Men	79 - 87kg (light-heavyweight)		M	Silver

[875 rows x 10 columns]

1948

	Athlete	City	Edition	Sport	\
7204	CAPILLA PEREZ, Joaquin	London	1948	Aquatics	
7205	LEE, Samuel	London	1948	Aquatics	
7206	HARLAN, Bruce Ira	London	1948	Aquatics	
7207	CHRISTOFFERSEN-HANSON, Birte	London	1948	Aquatics	
7208	DRAVES, Victoria Manalo	London	1948	Aquatics	
...	...	...	...	...	...
8013	GRÖNBERG, Axel	London	1948	Wrestling	
8014	TAYFUR, Muhlis	London	1948	Wrestling	
8015	ORABI, Ibrahim	London	1948	Wrestling	
8016	NILSSON, Karl-Erik	London	1948	Wrestling	
8017	GRÖNDAHL, Kelpo Olavi	London	1948	Wrestling	

	Discipline	NOC	Gender		Event	Event_gender	\
7204	Diving	MEX	Men		10m platform	M	
7205	Diving	USA	Men		10m platform	M	
7206	Diving	USA	Men		10m platform	M	
7207	Diving	DEN	Women		10m platform	W	
7208	Diving	USA	Women		10m platform	W	
...	...	...	...		...	...	...
8013	Wrestling Gre-R	SWE	Men	73 - 79kg (middleweight)		M	
8014	Wrestling Gre-R	TUR	Men	73 - 79kg (middleweight)		M	
8015	Wrestling Gre-R	EGY	Men	79 - 87kg (light-heavyweight)		M	
8016	Wrestling Gre-R	SWE	Men	79 - 87kg (light-heavyweight)		M	
8017	Wrestling Gre-R	FIN	Men	79 - 87kg (light-heavyweight)		M	

	Medal
7204	Bronze
7205	Gold
7206	Silver
7207	Bronze
7208	Gold
...	...

8013 Gold  
 8014 Silver  
 8015 Bronze  
 8016 Gold  
 8017 Silver

[814 rows x 10 columns]  
 1952

	Athlete	City	Edition	Sport \
8018	HAASE, Günther	Helsinki	1952	Aquatics
8019	LEE, Samuel	Helsinki	1952	Aquatics
8020	CAPILLA PEREZ, Joaquin	Helsinki	1952	Aquatics
8021	STOVER-IRWIN, Juno Roslays	Helsinki	1952	Aquatics
8022	MCCORMICK, Patricia	Helsinki	1952	Aquatics
...	...	...	...	...
8902	GRÖNBERG, Axel	Helsinki	1952	Wrestling
8903	RAUHALA, Kalervo Juhani	Helsinki	1952	Wrestling
8904	NILSSON, Karl-Erik	Helsinki	1952	Wrestling
8905	GRÖNDAHL, Kelpo Olavi	Helsinki	1952	Wrestling
8906	CHIKHLADZE, Shalva	Helsinki	1952	Wrestling

	Discipline	NOC	Gender	Event	Event_gender \
8018	Diving	GER	Men	10m platform	M
8019	Diving	USA	Men	10m platform	M
8020	Diving	MEX	Men	10m platform	M
8021	Diving	USA	Women	10m platform	W
8022	Diving	USA	Women	10m platform	W
...	...	...	...	...	...
8902	Wrestling Gre-R	SWE	Men	73 - 79kg (middleweight)	M
8903	Wrestling Gre-R	FIN	Men	73 - 79kg (middleweight)	M
8904	Wrestling Gre-R	SWE	Men	79 - 87kg (light-heavyweight)	M
8905	Wrestling Gre-R	FIN	Men	79 - 87kg (light-heavyweight)	M
8906	Wrestling Gre-R	URS	Men	79 - 87kg (light-heavyweight)	M

Medal  
 8018 Bronze  
 8019 Gold  
 8020 Silver  
 8021 Bronze  
 8022 Gold  
 ...  
 8902 Gold  
 8903 Silver  
 8904 Bronze  
 8905 Gold  
 8906 Silver

[889 rows x 10 columns]  
 1956

	Athlete	City	Edition	Sport	\
8907	CONNER, Richard Carroll	Melbourne / Stockholm	1956	Aquatics	
8908	CAPILLA PEREZ, Joaquin	Melbourne / Stockholm	1956	Aquatics	
8909	TOBIAN, Gary Milburn	Melbourne / Stockholm	1956	Aquatics	
8910	MYERS-POPE, Paula Jean	Melbourne / Stockholm	1956	Aquatics	
8911	MCCORMICK, Patricia	Melbourne / Stockholm	1956	Aquatics	
...	...	...	...	...	
9787	KARTOZIYA, Givi	Melbourne / Stockholm	1956	Wrestling	
9788	DOBREV, Dimitre Dimitrov	Melbourne / Stockholm	1956	Wrestling	
9789	NILSSON, Karl-Erik	Melbourne / Stockholm	1956	Wrestling	
9790	NIKOLAEV, Valentin	Melbourne / Stockholm	1956	Wrestling	
9791	SIRAKOV, Petko Atanasov	Melbourne / Stockholm	1956	Wrestling	

	Discipline	NOC	Gender	Event	Event_gender	\
8907	Diving	USA	Men	10m platform	M	
8908	Diving	MEX	Men	10m platform	M	
8909	Diving	USA	Men	10m platform	M	
8910	Diving	USA	Women	10m platform	W	
8911	Diving	USA	Women	10m platform	W	
...	...	...	...	...	...	
9787	Wrestling Gre-R	URS	Men	73 - 79kg (middleweight)	M	
9788	Wrestling Gre-R	BUL	Men	73 - 79kg (middleweight)	M	
9789	Wrestling Gre-R	SWE	Men	79 - 87kg (light-heavyweight)	M	
9790	Wrestling Gre-R	URS	Men	79 - 87kg (light-heavyweight)	M	
9791	Wrestling Gre-R	BUL	Men	79 - 87kg (light-heavyweight)	M	

	Medal
8907	Bronze
8908	Gold
8909	Silver
8910	Bronze
8911	Gold
...	...
9787	Gold
9788	Silver
9789	Bronze
9790	Gold
9791	Silver

[885 rows x 10 columns]  
1960

	Athlete	City	Edition	Sport	Discipline	\
9792	PHELPS, Brian Eric	Rome	1960	Aquatics	Diving	
9793	WEBSTER, Robert David	Rome	1960	Aquatics	Diving	
9794	TOBIAN, Gary Milburn	Rome	1960	Aquatics	Diving	
9795	KRUTOVA, Ninel	Rome	1960	Aquatics	Diving	
9796	KRÄMER-ENGEL-GULBIN, Ingrid	Rome	1960	Aquatics	Diving	
...	...	...	...	...	...	
10669	DOBREV, Dimitre Dimitrov	Rome	1960	Wrestling	Wrestling Gre-R	

10670		METZ, Lothar	Rome	1960	Wrestling	Wrestling Gre-R
10671		KARTOZIYA, Givi	Rome	1960	Wrestling	Wrestling Gre-R
10672		KIS, Tefvik	Rome	1960	Wrestling	Wrestling Gre-R
10673	BIMBALOV, Krali	Peytchev	Rome	1960	Wrestling	Wrestling Gre-R

	NOC	Gender		Event	Event_gender	Medal
9792	GBR	Men		10m platform	M	Bronze
9793	USA	Men		10m platform	M	Gold
9794	USA	Men		10m platform	M	Silver
9795	URS	Women		10m platform	W	Bronze
9796	EUA	Women		10m platform	W	Gold
...	...	...		...	...	...
10669	BUL	Men	73 - 79kg (middleweight)		M	Gold
10670	EUA	Men	73 - 79kg (middleweight)		M	Silver
10671	URS	Men	79 - 87kg (light-heavyweight)		M	Bronze
10672	TUR	Men	79 - 87kg (light-heavyweight)		M	Gold
10673	BUL	Men	79 - 87kg (light-heavyweight)		M	Silver

[882 rows x 10 columns]

1964

	Athlete	City	Edition	Sport	Discipline \
10674	GOMPF, Thomas Eugen	Tokyo	1964	Aquatics	Diving
10675	WEBSTER, Robert David	Tokyo	1964	Aquatics	Diving
10676	DIBIASI, Klaus	Tokyo	1964	Aquatics	Diving
10677	ALEKSEEVA, Galina	Tokyo	1964	Aquatics	Diving
10678	BUSH, Lesley Leigh	Tokyo	1964	Aquatics	Diving
...	...	...	...	...	...
11679	SIMIC, Branislav	Tokyo	1964	Wrestling	Wrestling Gre-R
11680	KORMANIK, Jiri	Tokyo	1964	Wrestling	Wrestling Gre-R
11681	KIEHL, Heinz	Tokyo	1964	Wrestling	Wrestling Gre-R
11682	RADEV, Boyan Aleksandrov	Tokyo	1964	Wrestling	Wrestling Gre-R
11683	SVENSSON, Per Oscar	Tokyo	1964	Wrestling	Wrestling Gre-R

	NOC	Gender		Event	Event_gender	Medal
10674	USA	Men		10m platform	M	Bronze
10675	USA	Men		10m platform	M	Gold
10676	ITA	Men		10m platform	M	Silver
10677	URS	Women		10m platform	W	Bronze
10678	USA	Women		10m platform	W	Gold
...	...	...		...	...	...
11679	YUG	Men	78 - 87kg (middleweight)		M	Gold
11680	TCH	Men	78 - 87kg (middleweight)		M	Silver
11681	EUA	Men	87 - 97kg (light-heavyweight)		M	Bronze
11682	BUL	Men	87 - 97kg (light-heavyweight)		M	Gold
11683	SWE	Men	87 - 97kg (light-heavyweight)		M	Silver

[1010 rows x 10 columns]

1968

Athlete	City	Edition	Sport	Discipline \
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11684	YOUNG, Edwin Frank	Mexico	1968	Aquatics	Diving
11685	DIBIASI, Klaus	Mexico	1968	Aquatics	Diving
11686	GAXIOLA ROBLES, Alvaro	Mexico	1968	Aquatics	Diving
11687	PETERSON, Ann Stewart	Mexico	1968	Aquatics	Diving
11688	DUCHKOVA, Milena	Mexico	1968	Aquatics	Diving
...	...	...	...	...	...
12710	METZ, Lothar	Mexico	1968	Wrestling	Wrestling Gre-R
12711	OLEINIK, Valentin	Mexico	1968	Wrestling	Wrestling Gre-R
12712	MARTINESCU, Nicolae	Mexico	1968	Wrestling	Wrestling Gre-R
12713	RADEV, Boyan Aleksandrov	Mexico	1968	Wrestling	Wrestling Gre-R
12714	YAKOVENKO, Nikolai	Mexico	1968	Wrestling	Wrestling Gre-R

	NOC	Gender		Event	Event_gender	Medal
11684	USA	Men		10m platform	M	Bronze
11685	ITA	Men		10m platform	M	Gold
11686	MEX	Men		10m platform	M	Silver
11687	USA	Women		10m platform	W	Bronze
11688	TCH	Women		10m platform	W	Gold
...	...	...		...	...	...
12710	GDR	Men	78 - 87kg (middleweight)		M	Gold
12711	URS	Men	78 - 87kg (middleweight)		M	Silver
12712	ROU	Men	87 - 97kg (light-heavyweight)		M	Bronze
12713	BUL	Men	87 - 97kg (light-heavyweight)		M	Gold
12714	URS	Men	87 - 97kg (light-heavyweight)		M	Silver

[1031 rows x 10 columns]

1972

	Athlete	City	Edition	Sport	Discipline \
12715	CAGNOTTO, Giorgio Franco	Munich	1972	Aquatics	Diving
12716	DIBIASI, Klaus	Munich	1972	Aquatics	Diving
12717	RYDZE, Richard Anthony	Munich	1972	Aquatics	Diving
12718	JANICKE, Marina	Munich	1972	Aquatics	Diving
12719	KNAPE-LINDBERGH, Ulrika	Munich	1972	Aquatics	Diving
...	...	...	...	...	...
13895	REZANTSEV, Valeri	Munich	1972	Wrestling	Wrestling Gre-R
13896	CORAK, Josip	Munich	1972	Wrestling	Wrestling Gre-R
13897	KISS, Ferenc	Munich	1972	Wrestling	Wrestling Gre-R
13898	MARTINESCU, Nicolae	Munich	1972	Wrestling	Wrestling Gre-R
13899	YAKOVENKO, Nikolai	Munich	1972	Wrestling	Wrestling Gre-R

	NOC	Gender		Event	Event_gender	Medal
12715	ITA	Men		10m platform	M	Bronze
12716	ITA	Men		10m platform	M	Gold
12717	USA	Men		10m platform	M	Silver
12718	GDR	Women		10m platform	W	Bronze
12719	SWE	Women		10m platform	W	Gold
...	...	...		...	...	...
13895	URS	Men	82 - 90kg (light-heavyweight)		M	Gold
13896	YUG	Men	82 - 90kg (light-heavyweight)		M	Silver

13897	HUN	Men	90 - 100kg (heavyweight)	M	Bronze
13898	ROU	Men	90 - 100kg (heavyweight)	M	Gold
13899	URS	Men	90 - 100kg (heavyweight)	M	Silver

[1185 rows x 10 columns]

1976

	Athlete	City	Edition	Sport	Discipline	\
13900	ALEINIK, Vladimir	Montreal	1976	Aquatics	Diving	
13901	DIBIASI, Klaus	Montreal	1976	Aquatics	Diving	
13902	LOUGANIS, Gregory	Montreal	1976	Aquatics	Diving	
13903	WILSON, Deborah Keplar	Montreal	1976	Aquatics	Diving	
13904	VAYTSEKHOVSKAYA, Elena	Montreal	1976	Aquatics	Diving	
...	...	...	...	...	...	
15200	REZANTSEV, Valeri	Montreal	1976	Wrestling	Wrestling Gre-R	
15201	IVANOV, Stoyan	Montreal	1976	Wrestling	Wrestling Gre-R	
15202	SKRZYDLEWSKI, Andrzej	Montreal	1976	Wrestling	Wrestling Gre-R	
15203	BALBOSHIN, Nikolai	Montreal	1976	Wrestling	Wrestling Gre-R	
15204	GORANOV, Kamen	Montreal	1976	Wrestling	Wrestling Gre-R	

	NOC	Gender		Event	Event_gender	Medal
13900	URS	Men		10m platform	M	Bronze
13901	ITA	Men		10m platform	M	Gold
13902	USA	Men		10m platform	M	Silver
13903	USA	Women		10m platform	W	Bronze
13904	URS	Women		10m platform	W	Gold
...	...	...		...	...	...
15200	URS	Men	82 - 90kg (light-heavyweight)		M	Gold
15201	BUL	Men	82 - 90kg (light-heavyweight)		M	Silver
15202	POL	Men	90 - 100kg (heavyweight)		M	Bronze
15203	URS	Men	90 - 100kg (heavyweight)		M	Gold
15204	BUL	Men	90 - 100kg (heavyweight)		M	Silver

[1305 rows x 10 columns]

1980

	Athlete	City	Edition	Sport	Discipline	NOC	\
15205	AMBARTSUMYAN, David	Moscow	1980	Aquatics	Diving	URS	
15206	HOFFMANN, Falk	Moscow	1980	Aquatics	Diving	GDR	
15207	ALEINIK, Vladimir	Moscow	1980	Aquatics	Diving	URS	
15208	TSOTADZE, Liana	Moscow	1980	Aquatics	Diving	URS	
15209	JÄSCHKE, Martina	Moscow	1980	Aquatics	Diving	GDR	
...	...	...	...	...	...	...	
16587	NOTTNY, Norbert	Moscow	1980	Wrestling	Wrestling Gre-R	HUN	
16588	KANYGIN, Igor	Moscow	1980	Wrestling	Wrestling Gre-R	URS	
16589	ANDREI, Vasile	Moscow	1980	Wrestling	Wrestling Gre-R	ROU	
16590	RAIKOV, Georgi	Moscow	1980	Wrestling	Wrestling Gre-R	BUL	
16591	BIERLA, Roman	Moscow	1980	Wrestling	Wrestling Gre-R	POL	

	Gender		Event	Event_gender	Medal
15205	Men		10m platform	M	Bronze

15206	Men	10m platform	M	Gold
15207	Men	10m platform	M	Silver
15208	Women	10m platform	W	Bronze
15209	Women	10m platform	W	Gold
...	...	...	...	...
16587	Men	82 - 90kg (light-heavyweight)	M	Gold
16588	Men	82 - 90kg (light-heavyweight)	M	Silver
16589	Men	90 - 100kg (heavyweight)	M	Bronze
16590	Men	90 - 100kg (heavyweight)	M	Gold
16591	Men	90 - 100kg (heavyweight)	M	Silver

[1387 rows x 10 columns]

1984

	Athlete	City	Edition	Sport	\
16592	LI, Kong-Zheng	Los Angeles	1984	Aquatics	
16593	LOUGANIS, Gregory	Los Angeles	1984	Aquatics	
16594	KIMBALL, Bruce D.	Los Angeles	1984	Aquatics	
16595	WYLAND-WILLIAMS, Wendy Lian	Los Angeles	1984	Aquatics	
16596	ZHOU, Ji-Hong	Los Angeles	1984	Aquatics	
...	...	...	...	...	...
18046	FRASER, Steven Howard	Los Angeles	1984	Wrestling	
18047	MATEI, Ilie	Los Angeles	1984	Wrestling	
18048	TERTELIJE, Jozef	Los Angeles	1984	Wrestling	
18049	ANDREI, Vasile	Los Angeles	1984	Wrestling	
18050	GIBSON, Gregory P.	Los Angeles	1984	Wrestling	

	Discipline	NOC	Gender	Event	\
16592	Diving	CHN	Men	10m platform	
16593	Diving	USA	Men	10m platform	
16594	Diving	USA	Men	10m platform	
16595	Diving	USA	Women	10m platform	
16596	Diving	CHN	Women	10m platform	
...	...	...	...	...	...
18046	Wrestling Gre-R	USA	Men	82 - 90kg (light-heavyweight)	
18047	Wrestling Gre-R	ROU	Men	82 - 90kg (light-heavyweight)	
18048	Wrestling Gre-R	YUG	Men	90 - 100kg (heavyweight)	
18049	Wrestling Gre-R	ROU	Men	90 - 100kg (heavyweight)	
18050	Wrestling Gre-R	USA	Men	90 - 100kg (heavyweight)	

	Event_gender	Medal
16592	M	Bronze
16593	M	Gold
16594	M	Silver
16595	W	Bronze
16596	W	Gold
...	...	...
18046	M	Gold
18047	M	Silver
18048	M	Bronze

18049 M Gold  
18050 M Silver

[1459 rows x 10 columns]

1988

	Athlete	City	Edition	Sport \
18051	MENA CAMPOS, Jesus	Seoul	1988	Aquatics
18052	LOUGANIS, Gregory	Seoul	1988	Aquatics
18053	XIONG, Ni	Seoul	1988	Aquatics
18054	WYLAND-WILLIAMS, Wendy Lian	Seoul	1988	Aquatics
18055	XU, Yan-Mei	Seoul	1988	Aquatics
...	...	...	...	...
19592	KOMCHEV, Atanas Slavov	Seoul	1988	Wrestling
19593	KOSKELA, Harri Matias	Seoul	1988	Wrestling
19594	KOSLOWSKI, Dennis Marvin	Seoul	1988	Wrestling
19595	WRONSKI, Andrzej	Seoul	1988	Wrestling
19596	HIMMEL, Gerhard	Seoul	1988	Wrestling

	Discipline	NOC	Gender	Event \
18051	Diving	MEX	Men	10m platform
18052	Diving	USA	Men	10m platform
18053	Diving	CHN	Men	10m platform
18054	Diving	USA	Women	10m platform
18055	Diving	CHN	Women	10m platform
...	...	...	...	...
19592	Wrestling Gre-R	BUL	Men	82 - 90kg (light-heavyweight)
19593	Wrestling Gre-R	FIN	Men	82 - 90kg (light-heavyweight)
19594	Wrestling Gre-R	USA	Men	90 - 100kg (heavyweight)
19595	Wrestling Gre-R	POL	Men	90 - 100kg (heavyweight)
19596	Wrestling Gre-R	FRG	Men	90 - 100kg (heavyweight)

	Event_gender	Medal
18051	M	Bronze
18052	M	Gold
18053	M	Silver
18054	W	Bronze
18055	W	Gold
...	...	...
19592	M	Gold
19593	M	Silver
19594	M	Bronze
19595	M	Gold
19596	M	Silver

[1546 rows x 10 columns]

1992

	Athlete	City	Edition	Sport \
19597	XIONG, Ni	Barcelona	1992	Aquatics
19598	SUN, Shuwei	Barcelona	1992	Aquatics

19599	DONIE, Scott R.	Barcelona	1992	Aquatics
19600	CLARK, Mary Ellen	Barcelona	1992	Aquatics
19601	FU, Mingxia	Barcelona	1992	Aquatics
...	...	...	...	...
21297	BULLMANN, Maik	Barcelona	1992	Wrestling
21298	BASAR, Hakki	Barcelona	1992	Wrestling
21299	DEMIACHKIEVITCH, Serguei	Barcelona	1992	Wrestling
21300	MILIAN PEREZ, Hector	Barcelona	1992	Wrestling
21301	KOSLOWSKI, Dennis Marvin	Barcelona	1992	Wrestling

	Discipline	NOC	Gender		Event \
19597	Diving	CHN	Men		10m platform
19598	Diving	CHN	Men		10m platform
19599	Diving	USA	Men		10m platform
19600	Diving	USA	Women		10m platform
19601	Diving	CHN	Women		10m platform
...	...	...	...		...
21297	Wrestling Gre-R	GER	Men	82 - 90kg (light-heavyweight)	
21298	Wrestling Gre-R	TUR	Men	82 - 90kg (light-heavyweight)	
21299	Wrestling Gre-R	EUN	Men	90 - 100kg (heavyweight)	
21300	Wrestling Gre-R	CUB	Men	90 - 100kg (heavyweight)	
21301	Wrestling Gre-R	USA	Men	90 - 100kg (heavyweight)	

	Event_gender	Medal
19597	M	Bronze
19598	M	Gold
19599	M	Silver
19600	W	Bronze
19601	W	Gold
...	...	...
21297	M	Gold
21298	M	Silver
21299	M	Bronze
21300	M	Gold
21301	M	Silver

[1705 rows x 10 columns]

1996

	Athlete	City	Edition	Sport	Discipline	NOC \
21302	XIAO, Hailiang	Atlanta	1996	Aquatics	Diving	CHN
21303	SAUTIN, Dmitry	Atlanta	1996	Aquatics	Diving	RUS
21304	HEMPEL, Jan	Atlanta	1996	Aquatics	Diving	GER
21305	CLARK, Mary Ellen	Atlanta	1996	Aquatics	Diving	USA
21306	FU, Mingxia	Atlanta	1996	Aquatics	Diving	CHN
...	...	...	...	...	...	...
23156	OLEYNYK, Vyacheslav	Atlanta	1996	Wrestling	Wrestling Gre-R	UKR
23157	FAFINSKI, Jacek	Atlanta	1996	Wrestling	Wrestling Gre-R	POL
23158	LJUNGBERG, Mikael	Atlanta	1996	Wrestling	Wrestling Gre-R	SWE
23159	WRONSKI, Andrzej	Atlanta	1996	Wrestling	Wrestling Gre-R	POL

23160 LISHTVAN, Sergey Atlanta 1996 Wrestling Wrestling Gre-R BLR

	Gender		Event	Event_gender	Medal
21302	Men		10m platform	M	Bronze
21303	Men		10m platform	M	Gold
21304	Men		10m platform	M	Silver
21305	Women		10m platform	W	Bronze
21306	Women		10m platform	W	Gold
...	...		...	...	...
23156	Men	82 - 90kg (light-heavyweight)		M	Gold
23157	Men	82 - 90kg (light-heavyweight)		M	Silver
23158	Men	90 - 100kg (heavyweight)		M	Bronze
23159	Men	90 - 100kg (heavyweight)		M	Gold
23160	Men	90 - 100kg (heavyweight)		M	Silver

[1859 rows x 10 columns]

2000

	Athlete	City	Edition	Sport	Discipline \
23161	SAUTIN, Dmitry	Sydney	2000	Aquatics	Diving
23162	TIAN, Liang	Sydney	2000	Aquatics	Diving
23163	HU, Jia	Sydney	2000	Aquatics	Diving
23164	MONTMINY, Anne Katherine	Sydney	2000	Aquatics	Diving
23165	WILKINSON, Laura	Sydney	2000	Aquatics	Diving
...	...	...	...	...	...
25171	LJUNGBERG, Mikael	Sydney	2000	Wrestling	Wrestling Gre-R
25172	SALDADZE, Davyd	Sydney	2000	Wrestling	Wrestling Gre-R
25173	DEBELKA, Dmitry	Sydney	2000	Wrestling	Wrestling Gre-R
25174	GARDNER, Rulon	Sydney	2000	Wrestling	Wrestling Gre-R
25175	KARELIN, Aleksandr	Sydney	2000	Wrestling	Wrestling Gre-R

	NOC	Gender	Event	Event_gender	Medal
23161	RUS	Men	10m platform	M	Bronze
23162	CHN	Men	10m platform	M	Gold
23163	CHN	Men	10m platform	M	Silver
23164	CAN	Women	10m platform	W	Bronze
23165	USA	Women	10m platform	W	Gold
...	...	...	...	...	...
25171	SWE	Men	85 - 97kg	M	Gold
25172	UKR	Men	85 - 97kg	M	Silver
25173	BLR	Men	97 - 130kg	M	Bronze
25174	USA	Men	97 - 130kg	M	Gold
25175	RUS	Men	97 - 130kg	M	Silver

[2015 rows x 10 columns]

2004

	Athlete	City	Edition	Sport	Discipline	NOC \
25176	TIAN, Liang	Athens	2004	Aquatics	Diving	CHN
25177	HU, Jia	Athens	2004	Aquatics	Diving	CHN
25178	HELM, Mathew	Athens	2004	Aquatics	Diving	AUS

25179	TOURKY, Loudy	Athens	2004	Aquatics	Diving	AUS
25180	NEWBERY, Chantelle	Athens	2004	Aquatics	Diving	AUS
...	...	...	...	...	...	...
27169	GABER IBRAHIM, Karam	Athens	2004	Wrestling	Wrestling Gre-R	EGY
27170	NOZADZE, Ramaz	Athens	2004	Wrestling	Wrestling Gre-R	GEO
27171	GARDNER, Rulon	Athens	2004	Wrestling	Wrestling Gre-R	USA
27172	BAROEV, Khasan	Athens	2004	Wrestling	Wrestling Gre-R	RUS
27173	TSURTSUMIA, Georgiy	Athens	2004	Wrestling	Wrestling Gre-R	KAZ

	Gender	Event	Event_gender	Medal
25176	Men	10m platform	M	Bronze
25177	Men	10m platform	M	Gold
25178	Men	10m platform	M	Silver
25179	Women	10m platform	W	Bronze
25180	Women	10m platform	W	Gold
...	...	...	...	...
27169	Men	84 - 96kg	M	Gold
27170	Men	84 - 96kg	M	Silver
27171	Men	96 - 120kg	M	Bronze
27172	Men	96 - 120kg	M	Gold
27173	Men	96 - 120kg	M	Silver

[1998 rows x 10 columns]

2008

	Athlete	City	Edition	Sport	Discipline \
27174	GALPERIN, Gleb	Beijing	2008	Aquatics	Diving
27175	MITCHAM, Matthew	Beijing	2008	Aquatics	Diving
27176	ZHOU, Luxin	Beijing	2008	Aquatics	Diving
27177	WANG, Xin	Beijing	2008	Aquatics	Diving
27178	CHEN, Ruolin	Beijing	2008	Aquatics	Diving
...	...	...	...	...	...
29211	ENGLISH, Mirko	Beijing	2008	Wrestling	Wrestling Gre-R
29212	MIZGAITIS, Mindaugas	Beijing	2008	Wrestling	Wrestling Gre-R
29213	PATRIKEEV, Yuri	Beijing	2008	Wrestling	Wrestling Gre-R
29214	LOPEZ, Mijain	Beijing	2008	Wrestling	Wrestling Gre-R
29215	BAROEV, Khasan	Beijing	2008	Wrestling	Wrestling Gre-R

	NOC	Gender	Event	Event_gender	Medal
27174	RUS	Men	10m platform	M	Bronze
27175	AUS	Men	10m platform	M	Gold
27176	CHN	Men	10m platform	M	Silver
27177	CHN	Women	10m platform	W	Bronze
27178	CHN	Women	10m platform	W	Gold
...	...	...	...	...	...
29211	GER	Men	84 - 96kg	M	Silver
29212	LTU	Men	96 - 120kg	M	Bronze
29213	ARM	Men	96 - 120kg	M	Bronze
29214	CUB	Men	96 - 120kg	M	Gold
29215	RUS	Men	96 - 120kg	M	Silver

[2042 rows x 10 columns]

groupby computations

```
In [172... df.groupby('Edition').size()
```

```
Out[172... Edition
1896      151
1900      512
1904      470
1908      804
1912      885
1920     1298
1924      884
1928      710
1932      615
1936      875
1948      814
1952      889
1956      885
1960      882
1964     1010
1968     1031
1972     1185
1976     1305
1980     1387
1984     1459
1988     1546
1992     1705
1996     1859
2000     2015
2004     1998
2008     2042
dtype: int64
```

```
In [173... df.groupby('NOC').size()
```

```
Out[173... NOC
AFG         1
AHO         1
ALG        14
ANZ        29
ARG       239
...
VIE         2
```



```
YUG      435
ZAM        2
ZIM       23
ZZX       48
Length: 138, dtype: int64
```

```
In [177... df.groupby(['Edition', 'NOC', 'Medal']).agg(['count'])
```

Out[177...

			Athlete	City	Sport	Discipline	Gender	Event	Event_gender
			count	count	count	count	count	count	count
Edition	NOC	Medal							
1896	AUS	Gold	2	2	2	2	2	2	2
	AUT	Bronze	2	2	2	2	2	2	2
		Gold	2	2	2	2	2	2	2
		Silver	1	1	1	1	1	1	1
	DEN	Bronze	3	3	3	3	3	3	3
...	...	...	...	...	...	...	...	...	...
2008	UZB	Silver	2	2	2	2	2	2	2
	VEN	Bronze	1	1	1	1	1	1	1
	VIE	Silver	1	1	1	1	1	1	1
	ZIM	Gold	1	1	1	1	1	1	1
		Silver	3	3	3	3	3	3	3

2356 rows x 7 columns

```
In [178... df.groupby(['Edition', 'NOC', 'Medal']).size()
```

Out[178...

Edition	NOC	Medal	
1896	AUS	Gold	2
	AUT	Bronze	2
		Gold	2
		Silver	1
	DEN	Bronze	3
..			

```
2008      UZB  Silver    2
          VEN  Bronze    1
          VIE  Silver    1
          ZIM  Gold      1
          Silver    3
Length: 2356, dtype: int64
```

```
In [191]: df.groupby(['NOC', 'Edition', 'Sport', 'Medal']).agg({'Edition': ['count']})
```

Out[191]:

				Edition
				count

NOC	Edition	Sport	Medal	
AFG	2008	Taekwondo	Bronze	1
AHO	1988	Sailing	Silver	1
ALG	1984	Boxing	Bronze	2
	1992	Athletics	Gold	1
		Boxing	Bronze	1
...	...	...	...	...
ZZX	1900	Tennis	Bronze	4
			Silver	4
		Tug of War	Gold	6
	1904	Athletics	Silver	5
		Fencing	Gold	3

7471 rows x 1 columns

```
In [196]: df.loc[df.Athlete == 'LEWIS, Carl'].groupby('Athlete').agg({'Edition': ['min', 'max', 'count']})
```

Out[196]:

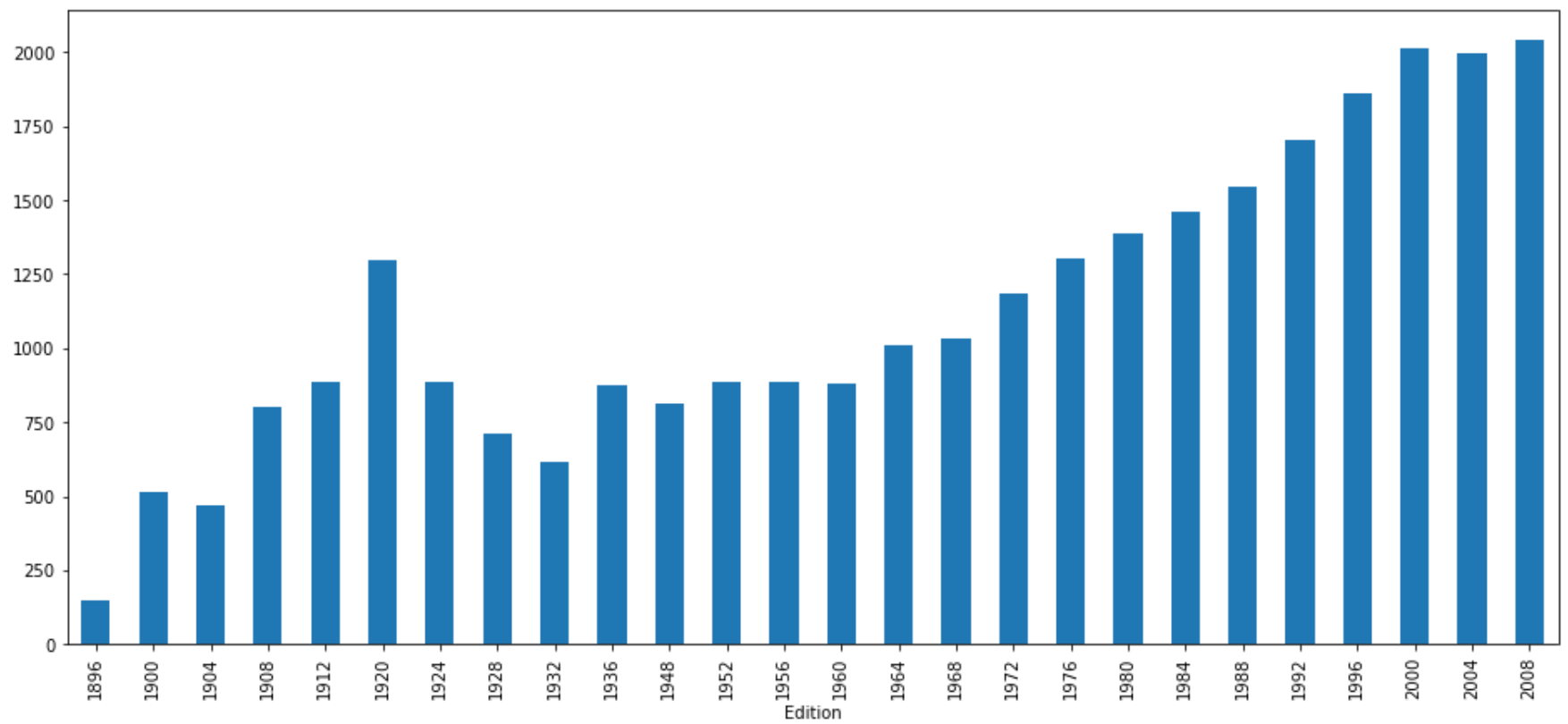
		Edition
		min max count
Athlete		

Athlete	Edition		
	min	max	count
LEWIS, Carl	1984	1996	10

Using groupby() function plot the total number of medals awarded at each of the olympic games throughout history.

```
In [201... df.groupby('Edition').size().plot(kind='bar')
```

Out[201... <AxesSubplot:xlabel='Edition'>



```
In [ ]:
```

Create a list showing total number of medals won for each country over the history of the olympics. For each country include the year

of the first and the most recent olympic medal win.

```
In [205... df.groupby(['NOC']).agg({'Edition': ['min', 'max', 'count']})
```

Out[205...

NOC	Edition		
	min	max	count
AFG	2008	2008	1
AHO	1988	1988	1
ALG	1984	2008	14
ANZ	1908	1912	29
ARG	1924	2008	239
...	...	...	...
VIE	2000	2008	2
YUG	1924	2000	435
ZAM	1984	1996	2
ZIM	1980	2008	23
ZZX	1896	1904	48

138 rows × 3 columns

```
In [209... df.stack()
```

Out[209...

0	Athlete	HAJOS, Alfred
	City	Athens
	Edition	1896
	Sport	Aquatics
	Discipline	Swimming
		...
29215	NOC	RUS
	Gender	Men
	Event	96 - 120kg
	Event_gender	M

Medal Silver  
Length: 292160, dtype: object

```
In [212... r= df.groupby(['NOC']).agg({'Edition': ['min', 'max', 'count']}).stack()  
r
```

Out[212...

Edition		
NOC		
AFG	min	2008
	max	2008
	count	1
AHO	min	1988
	max	1988
...	...	...
ZIM	max	2008
	count	23
ZZX	min	1896
	max	1904
	count	48

414 rows × 1 columns

```
In [213... r.unstack()
```

Out[213...

Edition			
	min	max	count
NOC			
AFG	2008	2008	1
AHO	1988	1988	1
ALG	1984	2008	14

Edition			
	min	max	count
NOC			
ANZ	1908	1912	29
ARG	1924	2008	239
...	...	...	...
VIE	2000	2008	2
YUG	1924	2000	435
ZAM	1984	1996	2
ZIM	1980	2008	23
ZZX	1896	1904	48

138 rows × 3 columns

In [215...

```
usg = df[(df.Medal == 'Gold') & (df.NOC == 'USA') ]
usg
```

Out[215...

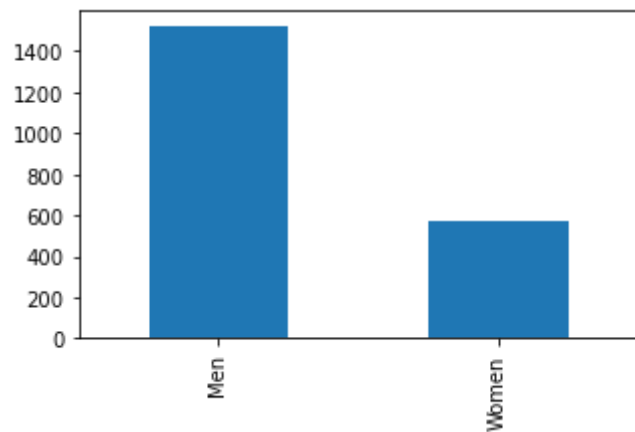
	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
13	BURKE, Thomas	Athens	1896	Athletics	Athletics	USA	Men	100m	M	Gold
15	CURTIS, Thomas	Athens	1896	Athletics	Athletics	USA	Men	110m hurdles	M	Gold
21	BURKE, Thomas	Athens	1896	Athletics	Athletics	USA	Men	400m	M	Gold
27	GARRETT, Robert	Athens	1896	Athletics	Athletics	USA	Men	discus throw	M	Gold
29	CLARK, Ellery	Athens	1896	Athletics	Athletics	USA	Men	high jump	M	Gold
...	...	...	...	...	...	...	...	...	...	...
29048	ROONEY, Sean	Beijing	2008	Volleyball	Volleyball	USA	Men	volleyball	M	Gold
29049	SALMON, Riley	Beijing	2008	Volleyball	Volleyball	USA	Men	volleyball	M	Gold
29050	STANLEY, Clayton	Beijing	2008	Volleyball	Volleyball	USA	Men	volleyball	M	Gold
29051	TOUZINSKY, Scott	Beijing	2008	Volleyball	Volleyball	USA	Men	volleyball	M	Gold

	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
29151	CEJUDO, Henry	Beijing	2008	Wrestling	Wrestling Free.	USA	Men	- 55kg	M	Gold

2088 rows × 10 columns

```
In [220...] usg.Gender.value_counts().plot(kind='bar',figsize=(5,3))
```

Out[220...] <AxesSubplot:>



```
In [225...] usg.groupby(['Edition','Gender']).size()
```

```
Out[225...] Edition  Gender
1896      Men        11
1900      Men        26
          Women         1
1904      Men       140
          Women         6
1908      Men        34
1912      Men        45
1920      Men       103
          Women         7
1924      Men        95
          Women        15
1928      Men        34
          Women         9
1932      Men        61
          Women        17
1936      Men        44
```

```

    Women    7
1948  Men    75
      Women    8
1952  Men    72
      Women    7
1956  Men    57
      Women    4
1960  Men    51
      Women   17
1964  Men    63
      Women   15
1968  Men    59
      Women   24
1972  Men    37
      Women   16
1976  Men    56
      Women    7
1984  Men   106
      Women   62
1988  Men    49
      Women   28
1992  Men    57
      Women   32
1996  Men    59
      Women  101
2000  Men    68
      Women   62
2004  Men    51
      Women   65
2008  Men    67
      Women   58
dtype: int64
```

```
In [228... usg.groupby(['Edition','Gender']).size().unstack('Gender',fill_value=0)
```

Out[228...

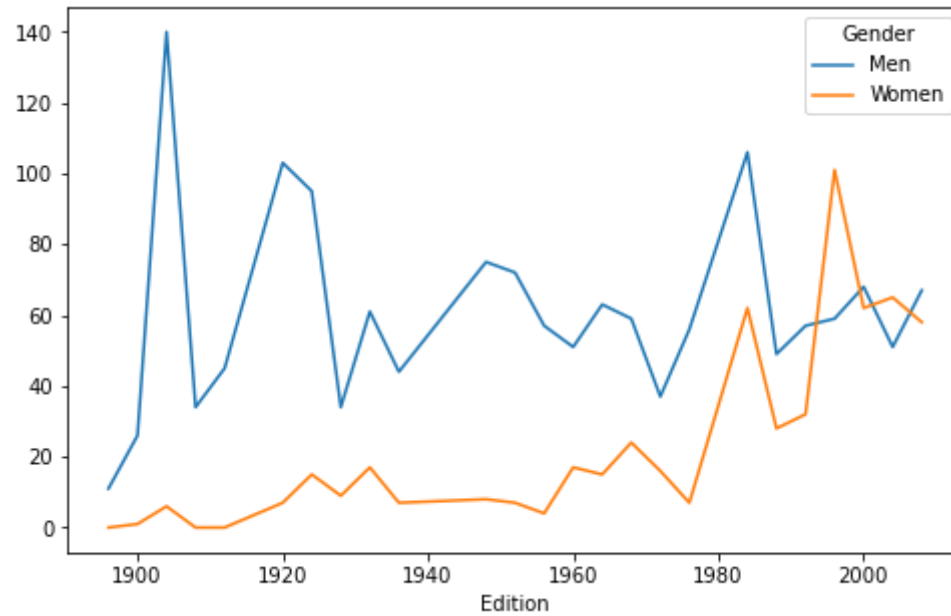
	Gender	Men	Women
Edition			
	1896	11	0
	1900	26	1
	1904	140	6
	1908	34	0
	1912	45	0



Gender	Men	Women
Edition		
1920	103	7
1924	95	15
1928	34	9
1932	61	17
1936	44	7
1948	75	8
1952	72	7
1956	57	4
1960	51	17
1964	63	15
1968	59	24
1972	37	16
1976	56	7
1984	106	62
1988	49	28
1992	57	32
1996	59	101
2000	68	62
2004	51	65
2008	67	58

```
In [231... usg.groupby(['Edition', 'Gender']).size().unstack('Gender', fill_value=0).plot(figsize=(8,5))
```

```
Out[231... <AxesSubplot:xlabel='Edition'>
```



In [240...

```
gold = df.groupby(['Athlete', 'Medal']).size().unstack('Medal', fill_value=0)
gold
```

Out[240...

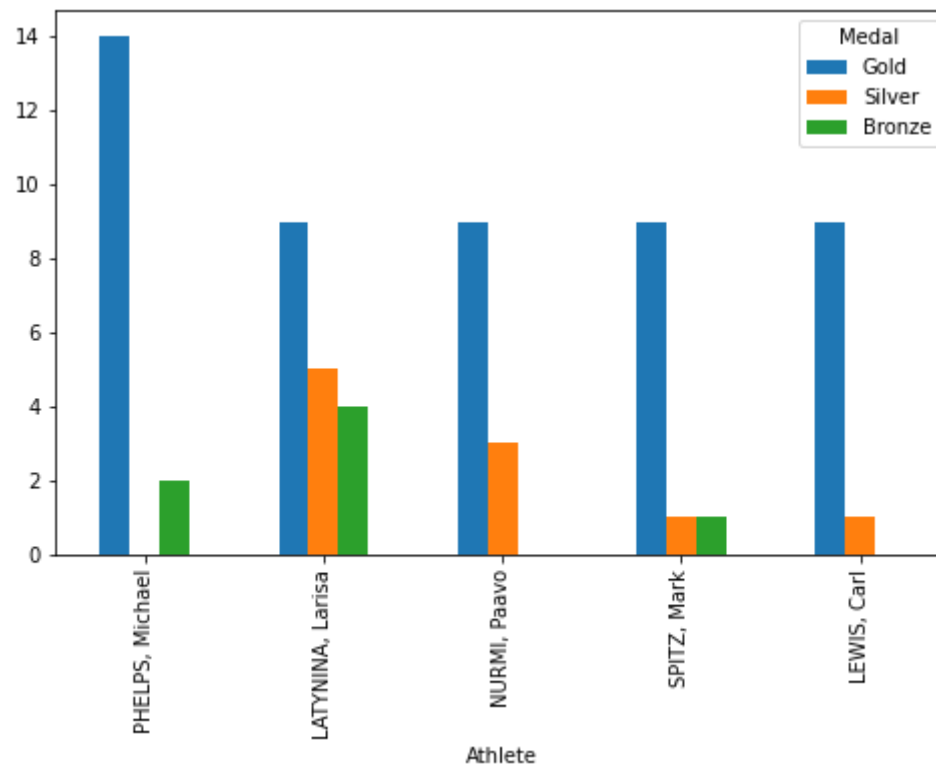
	Medal	Bronze	Gold	Silver
Athlete				
AABYE, Edgar		0	1	0
AALTONEN, Arvo Ossian		2	0	0
AALTONEN, Paavo Johannes		2	3	0
AAMODT, Ragnhild		0	1	0
AANING, Alf Lied		0	0	1
...	...	...	...	...
ÖSTERVOLD, Jan Olsen		0	1	0
ÖSTERVOLD, Kristian Olsen		0	1	0
ÖSTERVOLD, Ole Olsen		0	1	0
ÖSTMO, Ole		2	0	2

	Medal	Bronze	Gold	Silver
Athlete				
<hr/>				
ÖSTRAND, Per-Olof		1	0	0

21413 rows × 3 columns

```
In [248... gold.sort_values(['Gold', 'Silver', 'Bronze'],
                    ascending=False)[['Gold', 'Silver', 'Bronze']].head(5).plot(kind='bar',
                                                                                   figsize=(8,5))
```

Out[248... <AxesSubplot: xlabel='Athlete'>



```
In [258... fg= df.groupby(['NOC', 'Medal']).size().unstack('Medal', fill_value=0)[['Gold', 'Silver', 'Bronze']]
fg1=fg.sort_values(['Gold', 'Silver', 'Bronze'], ascending=False).transpose()
fg1
```

Out [258...

	NOC	USA	URS	GBR	ITA	GER	HUN	FRA	SWE	GDR	AUS	...	BER	DJI	ERI	GUY	IRQ	KUW	MKD	MRI	NIG	TOG
Medal																						
Gold	2088	838	498	460	407	400	378	347	329	293	...	0	0	0	0	0	0	0	0	0	0	0
Silver	1195	627	591	394	350	308	461	349	271	369	...	0	0	0	0	0	0	0	0	0	0	0
Bronze	1052	584	505	374	454	345	475	325	225	413	...	1	1	1	1	1	1	1	1	1	1	1

3 rows × 138 columns

In [260...

```
df.head(5)
```

Out [260...

	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
0	HAJOS, Alfred	Athens	1896	Aquatics	Swimming	HUN	Men	100m freestyle	M	Gold
1	HERSCHMANN, Otto	Athens	1896	Aquatics	Swimming	AUT	Men	100m freestyle	M	Silver
2	DRIVAS, Dimitrios	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Bronze
3	MALOKINIS, Ioannis	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Gold
4	CHASAPIS, Spiridon	Athens	1896	Aquatics	Swimming	GRE	Men	100m freestyle for sailors	M	Silver

In [261...

```
lo = df[df.Edition==2008]
lo
```

Out [261...

	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
27174	GALPERIN, Gleb	Beijing	2008	Aquatics	Diving	RUS	Men	10m platform	M	Bronze
27175	MITCHAM, Matthew	Beijing	2008	Aquatics	Diving	AUS	Men	10m platform	M	Gold
27176	ZHOU, Luxin	Beijing	2008	Aquatics	Diving	CHN	Men	10m platform	M	Silver
27177	WANG, Xin	Beijing	2008	Aquatics	Diving	CHN	Women	10m platform	W	Bronze
27178	CHEN, Ruolin	Beijing	2008	Aquatics	Diving	CHN	Women	10m platform	W	Gold
...	...	...	...	...	...	...	...	...	...	...
29211	ENGLISH, Mirko	Beijing	2008	Wrestling	Wrestling Gre-R	GER	Men	84 - 96kg	M	Silver
29212	MIZGAITIS, Mindaugas	Beijing	2008	Wrestling	Wrestling Gre-R	LTU	Men	96 - 120kg	M	Bronze

	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
29213	PATRIKEEV, Yuri	Beijing	2008	Wrestling	Wrestling Gre-R	ARM	Men	96 - 120kg	M	Bronze
29214	LOPEZ, Mijain	Beijing	2008	Wrestling	Wrestling Gre-R	CUB	Men	96 - 120kg	M	Gold
29215	BAROEV, Khasan	Beijing	2008	Wrestling	Wrestling Gre-R	RUS	Men	96 - 120kg	M	Silver

2042 rows x 10 columns

In [262...

```
lo1= lo.groupby(['NOC', 'Medal']).size().unstack('Medal',fill_value=0)[['Gold', 'Silver', 'Bronze']]
lo2=lo1.sort_values(['Gold', 'Silver', 'Bronze'],ascending=False).transpose()
lo2
```

Out[262...

	NOC	USA	CHN	RUS	GER	KOR	NED	AUS	GBR	FRA	JPN	...	VIE	ARM	TPE	AFG	EGY	ISR	MDA	MRI	TOG	VEN
Medal																						
Gold	125	74	43	42	41	40	31	31	25	23	...	0	0	0	0	0	0	0	0	0	0	0
Silver	109	53	44	16	11	18	42	25	23	11	...	1	0	0	0	0	0	0	0	0	0	0
Bronze	81	57	56	43	26	4	76	21	28	17	...	0	6	4	1	1	1	1	1	1	1	1

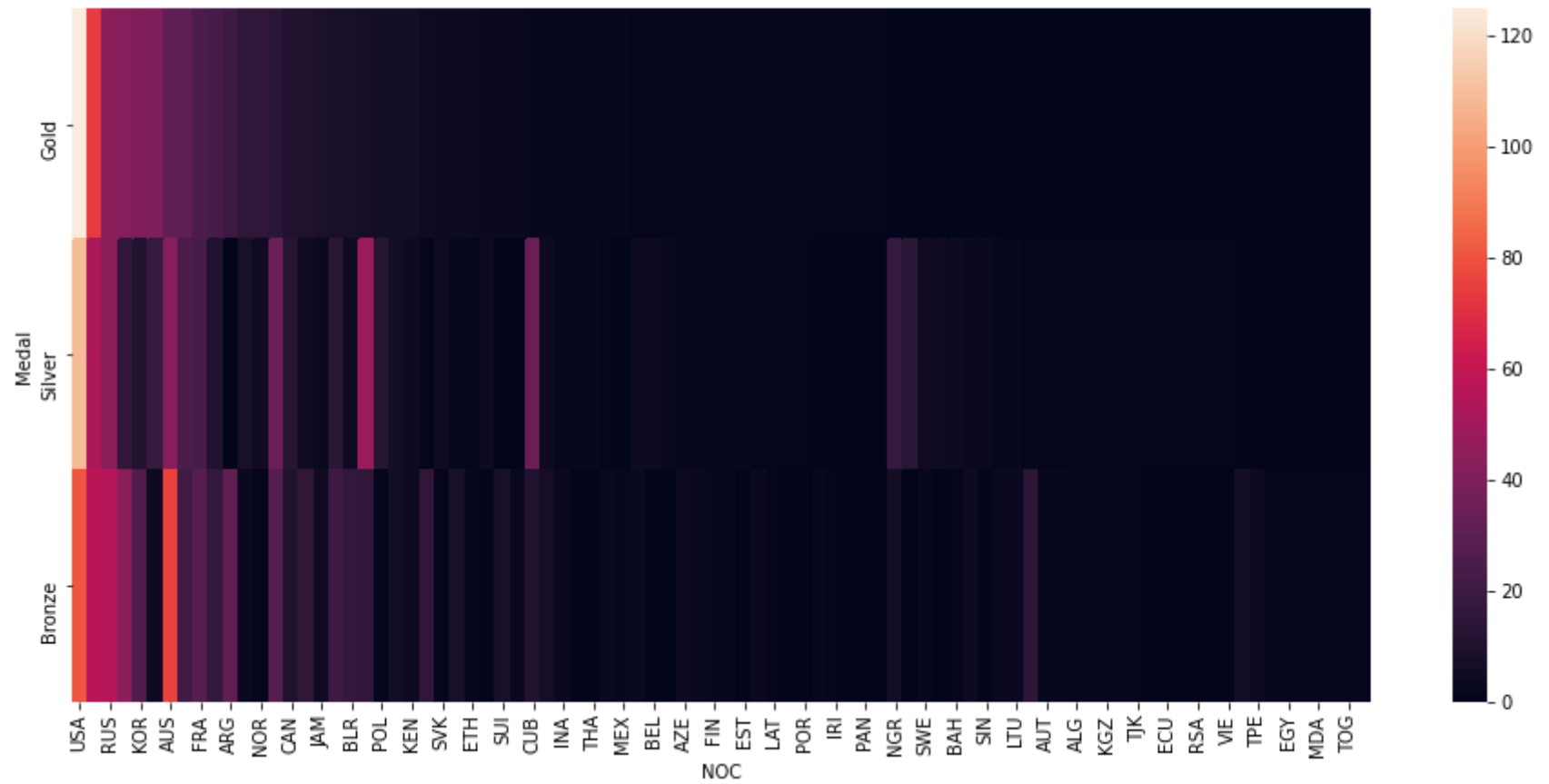
3 rows x 86 columns

In [267...

```
sns.heatmap(lo2)
```

Out[267...

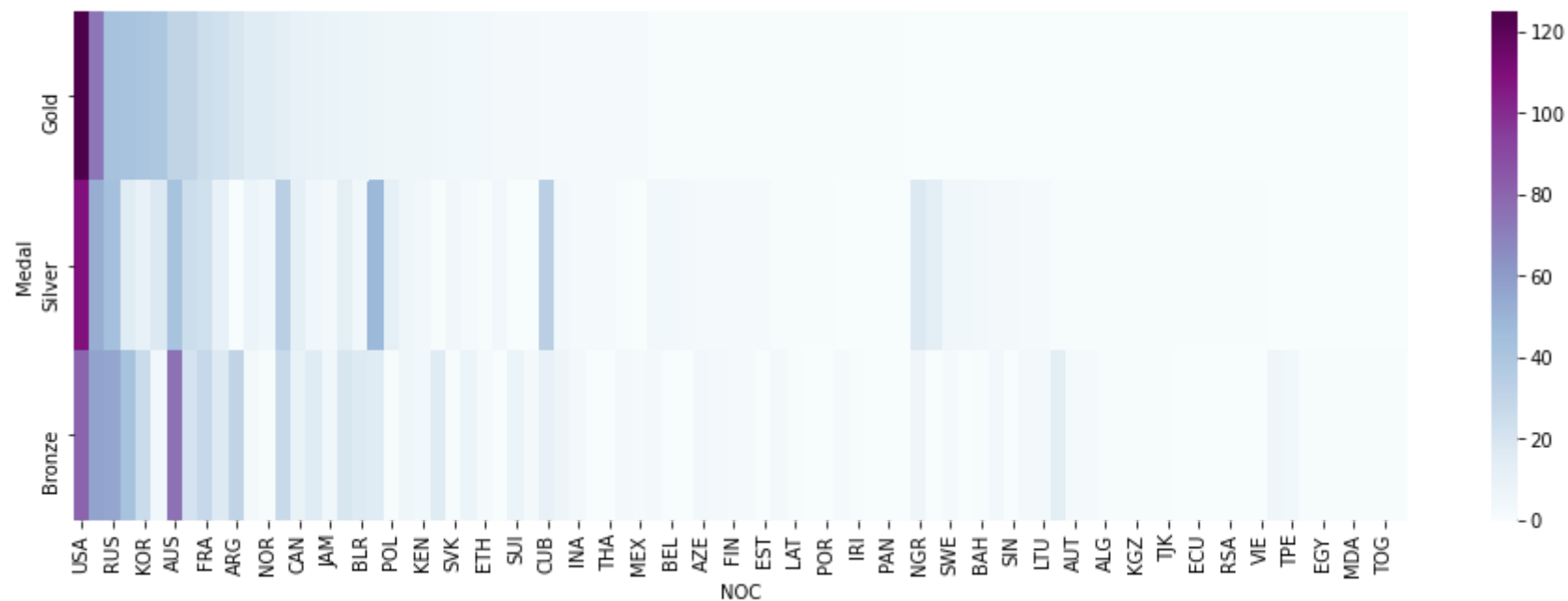
<AxesSubplot:xlabel='NOC', ylabel='Medal'>



In [276...

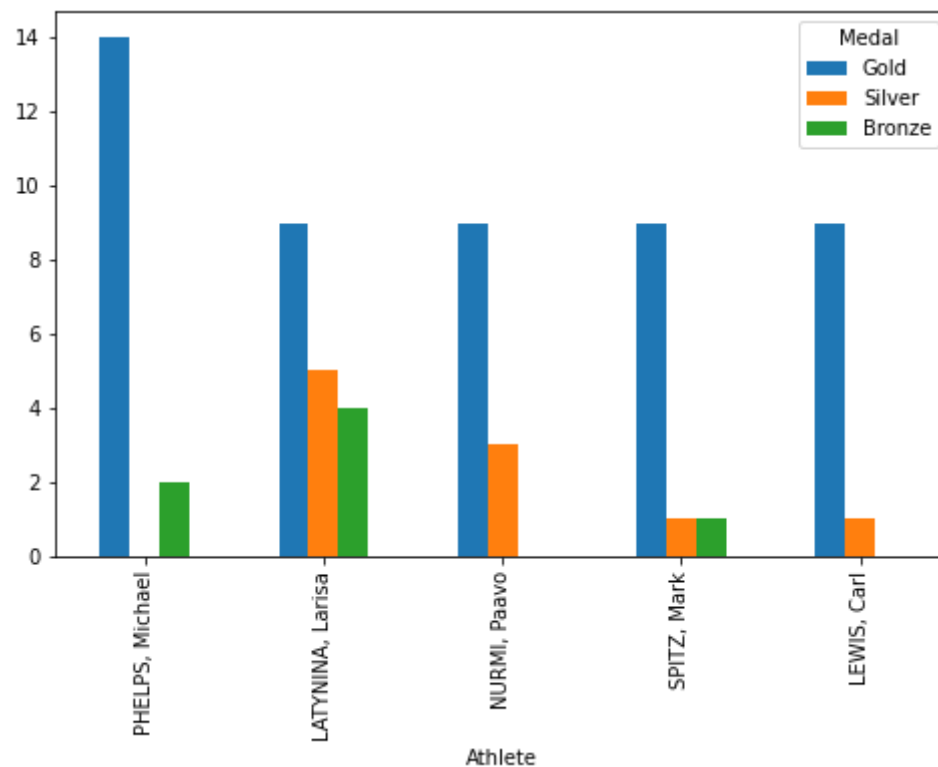
```
plt.figure(figsize=(16,5))
sns.heatmap(lo2,cmap="BuPu")
```

Out[276... &lt;AxesSubplot:xlabel='NOC', ylabel='Medal'&gt;



```
In [285... gold = df.groupby(['Athlete','Medal']).size().unstack('Medal',fill_value=0)
gold
gold.sort_values(['Gold','Silver','Bronze'], ascending=False)[['Gold','Silver','Bronze']].head(5).plot(kind='bar',
figsize=(8,5))
```

```
Out[285... <AxesSubplot:xlabel='Athlete'>
```



```
In [287... from matplotlib.colors import ListedColormap
```

```
In [288... sns.color_palette()
```

```
Out[288...
```



```
In [289... sns.palplot(sns.color_palette())
```



In every olympics which US athlete has won most total number of medals? Include the athletes discipline.



In [327...

```
us=df[df.NOC=='USA']
us
```

Out[327...

	Athlete	City	Edition	Sport	Discipline	NOC	Gender	Event	Event_gender	Medal
11	LANE, Francis	Athens	1896	Athletics	Athletics	USA	Men	100m	M	Bronze
13	BURKE, Thomas	Athens	1896	Athletics	Athletics	USA	Men	100m	M	Gold
15	CURTIS, Thomas	Athens	1896	Athletics	Athletics	USA	Men	110m hurdles	M	Gold
19	BLAKE, Arthur	Athens	1896	Athletics	Athletics	USA	Men	1500m	M	Silver
21	BURKE, Thomas	Athens	1896	Athletics	Athletics	USA	Men	400m	M	Gold
...	...	...	...	...	...	...	...	...	...	...
29098	TOM, Logan	Beijing	2008	Volleyball	Volleyball	USA	Women	volleyball	W	Silver
29099	WILLOUGHBY, Kim	Beijing	2008	Volleyball	Volleyball	USA	Women	volleyball	W	Silver
29151	CEJUDO, Henry	Beijing	2008	Wrestling	Wrestling Free.	USA	Men	- 55kg	M	Gold
29161	MILLER, Randi	Beijing	2008	Wrestling	Wrestling Free.	USA	Women	55 - 63kg	W	Bronze
29209	WHEELER, Adam	Beijing	2008	Wrestling	Wrestling Gre-R	USA	Men	84 - 96kg	M	Bronze

4335 rows x 10 columns

In [328...

```
us1 = us.groupby(['Edition','Athlete','Medal']).size().unstack('Medal',fill_value=0)
us1
```

Out[328...

	Medal	Bronze	Gold	Silver
Edition	Athlete			
1896	BLAKE, Arthur	0	0	1
	BURKE, Thomas	0	2	0
	CLARK, Ellery	0	2	0
	CONNOLLY, James	1	1	1
	CURTIS, Thomas	0	1	0

	Medal	Bronze	Gold	Silver
Edition	Athlete			
...	...	...	...	...
2008	WILLOUGHBY, Kim	0	0	1
	WINDES, Elsie	0	0	1
	WINEBERG, Mary	0	1	0
	WRIGHT, Adam	0	0	1
	ZAGUNIS, Mariel	1	1	0

3549 rows x 3 columns

```
In [329... us1['Total'] = us1['Gold'] + us1['Silver'] + us1['Bronze']
```

```
In [330... us1
```

Out[330...

	Medal	Bronze	Gold	Silver	Total
Edition	Athlete				
1896	BLAKE, Arthur	0	0	1	1
	BURKE, Thomas	0	2	0	2
	CLARK, Ellery	0	2	0	2
	CONNOLLY, James	1	1	1	3
	CURTIS, Thomas	0	1	0	1
...	...	...	...	...	...
2008	WILLOUGHBY, Kim	0	0	1	1
	WINDES, Elsie	0	0	1	1
	WINEBERG, Mary	0	1	0	1
	WRIGHT, Adam	0	0	1	1
	ZAGUNIS, Mariel	1	1	0	2

3549 rows × 4 columns

In [337...

```
us2 = us1.sort_values(['Edition'])
us2.reset_index(inplace=True)
us2
```

Out[337...

Medal	Edition	Athlete	Bronze	Gold	Silver	Total
0	1896	BLAKE, Arthur	0	0	1	1
1	1896	TYLER, Albert	0	0	1	1
2	1896	PAINE, Sumner	0	1	1	2
3	1896	LANE, Francis	1	0	0	1
4	1896	JAMISON, Herbert	0	0	1	1
...	...	...	...	...	...	...
3544	2008	HEATH, Tobin	0	1	0	1
3545	2008	HENDERSON, Monique	0	1	0	1
3546	2008	HESSMAN, Mike	1	0	0	1
3547	2008	HOELZER, Margaret	1	0	2	3
3548	2008	ZAGUNIS, Mariel	1	1	0	2

3549 rows × 6 columns

In [ ]:

In [ ]: