```
2, ..., 29213, 29214, 29215], dtype=int64)
             array([
 Out[4]:
 In [5]:
             olympic_data.columns.values
             array(['City', 'Edition', 'Sport', 'Discipline', 'Athlete', 'NOC',
 Out[5]:
                        'Gender', 'Event', 'Event_gender', 'Medal'], dtype=object)
 In [6]:
             olympic_data.index.hasnans
             False
 Out[6]:
             olympic_data.columns.hasnans
             False
 Out[7]:
             olympic_data.index.has_duplicates
 Out[8]:
             olympic_data.columns.has_duplicates
             False
 Out[9]:
In [10]:
            olympic_data.index.nbytes
Out[10]:
In [11]:
             olympic_data.columns.nbytes
Out[11]:
            olympic_data.query("Athlete.str.contains('OWENS, Jesse')").Event
                                    100m
             6427
Out[12]:
             6439
                                    200m
                        4x100m relay
             6456
             6523
                             long jump
             Name: Event, dtype: object
In [13]:
             olympic_data.query("(Medal=='Gold')and(Gender=='Men')and(Event=='singles')and(Discipline=='Badminton')").sort_values(by=['Athlete'])
                            City Edition
Out[13]:
                                                 Sport Discipline
                                                                                         Athlete NOC Gender Event Event_gender Medal
             20045 Barcelona
                                     1992 Badminton Badminton
                                                                            BUDI KUSUMA, Alan
                                                                                                                                               Gold
                                                                                                    INA
                                                                                                                    singles
                                                                                                                                          M
                                                                                                              Men
             25734
                         Athens
                                     2004 Badminton Badminton
                                                                                 HIDAYAT, Taufik
                                                                                                    INA
                                                                                                                    singles
                                                                                                                                               Gold
                                     1996 Badminton Badminton
             21787
                         Atlanta
                                                                     HOYER-LARSEN, Poul Erik DEN
                                                                                                                    singles
                                                                                                                                          M
                                                                                                                                               Gold
                                                                                                              Men
             23717
                        Sydney
                                     2000
                                           Badminton
                                                        Badminton
                                                                                      JI, Xinpeng
                                                                                                  CHN
                                                                                                                                               Gold
             27741
                         Beijing
                                     2008 Badminton Badminton
                                                                                        LIN, Dan CHN
                                                                                                              Men
                                                                                                                                          M Gold
                                                                                                                    singles
            olympic_data.query("(Medal=='Gold')and(Gender=='Men')and(Event=='singles')and(Discipline=='Badminton')").sort_values(by=['Athlete']).NOC.value_counts()[:1]
             Name: NOC, dtype: int64
             data_1984_2008=olympic_data.set_index(['Edition']).loc[1984:2009]
             data_1984_2008.NOC.value_counts()[:3]
             USA
                       1837
Out[16]
             AUS
                        762
             GER
                        691
             Name: NOC, dtype: int64
In [17]: olympic_data.query("(Medal=='Gold')and(Event=='100m')and(Discipline=='Athletics')and(Gender=='Men')")
                                                                                                  Athlete NOC Gender Event Event gender Medal
                                        City Edition
                                                           Sport Discipline
Out[17]:
                 13
                                      Athens
                                                 1896
                                                        Athletics
                                                                     Athletics
                                                                                         BURKE, Thomas USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
                231
                                       Paris
                                                 1900 Athletics
                                                                     Athletics
                                                                                         JARVIS, Francis USA
                                                                                                                      Men
                                                                                                                            100m
                                                                                                                                                       Gold
                737
                                                 1904
                                                                                           HAHN, Archie USA
                                                                                                                                                       Gold
                                    St Louis
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                      WALKER, Reginald RSA
              1191
                                     London
                                                 1908 Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
               2022
                                  Stockholm
                                                                                           CRAIG, Ralph USA
                                                 1912 Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
               2996
                                    Antwerp
                                                 1920 Athletics
                                                                     Athletics
                                                                                      PADDOCK, Charles USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
               4236
                                                 1924
                                                                                     ABRAHAMS, Harold GBR
                                                                                                                                                       Gold
                                       Paris
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                            100m
                                                                                                                                                  M
                                 Amsterdam
               5095
                                                 1928 Athletics
                                                                     Athletics
                                                                                        WILLIAMS, Percy CAN
                                                                                                                            100m
                                                                                                                                                  M
                                                                                                                                                       Gold
                                                                                                                      Men
                                Los Angeles
                                                                                           TOLAN, Eddie USA
                                                                                                                                                       Gold
               5806
                                                 1932
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                          OWENS, Jesse USA
               6427
                                      Berlin
                                                 1936 Athletics
                                                                     Athletics
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
                                                                                                                      Men
               7302
                                     London
                                                 1948
                                                        Athletics
                                                                     Athletics
                                                                                       DILLARD, Harrison USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
               8121
                                     Helsinki
                                                 1952 Athletics
                                                                     Athletics
                                                                                        REMIGINO, Lindy USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  Μ
                                                                                                                                                       Gold
               9009
                     Melbourne / Stockholm
                                                 1956
                                                        Athletics
                                                                     Athletics
                                                                               MORROW, Robert Joseph USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
              9924
                                      Rome
                                                 1960 Athletics
                                                                     Athletics
                                                                                             HARY, Armin EUA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  Μ
                                                                                                                                                       Gold
             10823
                                                                                          HAYES, Robert USA
                                                                                                                                                       Gold
                                      Tokyo
                                                 1964
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                            100m
                                                                                                                                                  M
             11865
                                      Mexico
                                                 1968 Athletics
                                                                     Athletics
                                                                                      HINES, James Ray USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
             12902
                                                                                         BORZOV, Valery URS
                                                                                                                                                       Gold
                                     Munich
                                                 1972 Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
             14069
                                    Montreal
                                                 1976 Athletics
                                                                     Athletics
                                                                                     CRAWFORD, Hasely TRI
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
                                                                                                                      Men
             15374
                                                                                                                                                       Gold
                                    Moscow
                                                 1980
                                                        Athletics
                                                                     Athletics
                                                                                            WELLS, Allan GBR
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
             16794
                                Los Angeles
                                                 1984 Athletics
                                                                     Athletics
                                                                                             LEWIS, Carl USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
             18284
                                      Seoul
                                                 1988
                                                        Athletics
                                                                     Athletics
                                                                                             LEWIS, Carl USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
             19859
                                   Barcelona
                                                 1992 Athletics
                                                                     Athletics
                                                                                       CHRISTIE, Linford GBR
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  Μ
                                                                                                                                                       Gold
             21598
                                                 1996
                                                                                        BAILEY, Donovan CAN
                                                                                                                                                       Gold
                                      Atlanta
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                            100m
                                                                                                                                                  M
                                     Sydney
             23521
                                                 2000
                                                        Athletics
                                                                     Athletics
                                                                                       GREENE, Maurice USA
                                                                                                                             100m
                                                                                                                                                       Gold
                                                                                                                      Men
             25539
                                                                                                                                                       Gold
                                      Athens
                                                 2004
                                                        Athletics
                                                                     Athletics
                                                                                           GATLIN, Justin USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
             27552
                                                                                                                                                  M Gold
                                      Beijing
                                                 2008 Athletics
                                                                     Athletics
                                                                                             BOLT, Usain JAM
                                                                                                                      Men 100m
             olympic_data.query("(Medal=='Gold')and(Event=='100m')and(Discipline=='Athletics')and(Gender=='Men')").sort_values(['Edition'],ascending=False)
Out[18]:
                                        City Edition
                                                           Sport Discipline
                                                                                                  Athlete NOC Gender Event Event_gender Medal
             27552
                                                                                             BOLT, Usain JAM
                                                                                                                                                       Gold
                                      Beijing
                                                 2008
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
             25539
                                      Athens
                                                 2004 Athletics
                                                                     Athletics
                                                                                           GATLIN, Justin USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                       Gold
             23521
                                     Sydney
                                                 2000
                                                                     Athletics
                                                                                       GREENE, Maurice USA
                                                                                                                            100m
                                                                                                                                                  Μ
                                                                                                                                                       Gold
                                                        Athletics
                                                                                                                      Men
                                                                                        BAILEY, Donovan CAN
             21598
                                      Atlanta
                                                 1996
                                                        Athletics
                                                                     Athletics
                                                                                                                             100m
                                                                                                                                                       Gold
                                                                                                                      Men
                                                                                       CHRISTIE, Linford GBR
             19859
                                   Barcelona
                                                 1992
                                                                                                                                                       Gold
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
             18284
                                      Seoul
                                                 1988 Athletics
                                                                     Athletics
                                                                                             LEWIS, Carl USA
                                                                                                                             100m
                                                                                                                                                       Gold
                                                                                                                      Men
                                                                                                                                                       Gold
             16794
                                Los Angeles
                                                 1984
                                                        Athletics
                                                                     Athletics
                                                                                             LEWIS, Carl USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  Μ
             15374
                                                 1980 Athletics
                                                                     Athletics
                                                                                            WELLS, Allan GBR
                                                                                                                             100m
                                                                                                                                                       Gold
                                     Moscow
                                                                                                                      Men
             14069
                                                                                    CRAWFORD, Hasely TRI
                                                 1976 Athletics
                                                                                                                                                       Gold
                                    Montreal
                                                                     Athletics
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
             12902
                                      Munich
                                                 1972 Athletics
                                                                     Athletics
                                                                                         BORZOV, Valery
                                                                                                                             100m
                                                                                                                                                       Gold
                                                                                                                      Men
             11865
                                                 1968
                                                                                      HINES, James Ray USA
                                                                                                                            100m
                                                                                                                                                  M
                                                                                                                                                       Gold
                                      Mexico
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
             10823
                                      Tokyo
                                                 1964
                                                        Athletics
                                                                     Athletics
                                                                                          HAYES, Robert USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                       Gold
               9924
                                                                                             HARY, Armin EUA
                                                                                                                                                       Gold
                                      Rome
                                                 1960
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                     Athletics MORROW, Robert Joseph USA
               9009 Melbourne / Stockholm
                                                 1956 Athletics
                                                                                                                      Men 100m
                                                                                                                                                      Gold
                                                 1948 Athletics
                                                                                       DILLARD, Harrison USA
               7302
                                     London
                                                                    Athletics
                                                                                                                      Men 100m
                                                                                                                                                       Gold
               6427
                                      Berlin
                                                 1936
                                                        Athletics
                                                                     Athletics
                                                                                          OWENS, Jesse USA
                                                                                                                      Men
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
               5806
                                Los Angeles
                                                 1932 Athletics
                                                                     Athletics
                                                                                           TOLAN, Eddie USA
                                                                                                                             100m
                                                                                                                                                  Μ
                                                                                                                                                       Gold
                                                                                                                      Men
                                                                                        WILLIAMS, Percy CAN
                                                                                                                                                       Gold
               5095
                                 Amsterdam
                                                 1928 Athletics
                                                                     Athletics
                                                                                                                            100m
                                                                                                                                                  M
                                                                                                                      Men
               4236
                                                 1924 Athletics
                                                                                     ABRAHAMS, Harold GBR
                                                                                                                            100m
                                                                                                                                                       Gold
                                       Paris
                                                                     Athletics
                                                                                                                      Men
               2996
                                                 1920
                                                                                      PADDOCK, Charles USA
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
                                    Antwerp
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
                                                 1912 Athletics
               2022
                                  Stockholm
                                                                     Athletics
                                                                                           CRAIG, Ralph USA
                                                                                                                      Men
                                                                                                                            100m
                                                                                                                                                       Gold
               1191
                                                 1908
                                                                                      WALKER, Reginald RSA
                                                                                                                             100m
                                                                                                                                                  M
                                                                                                                                                       Gold
                                     London
                                                        Athletics
                                                                     Athletics
                                                                                                                      Men
                                                                                            HAHN, Archie USA
                737
                                     St Louis
                                                 1904 Athletics
                                                                     Athletics
                                                                                                                            100m
                                                                                                                                                      Gold
                                                                                                                      Men
                231
                                                 1900
                                                                                         JARVIS, Francis USA
                                                                                                                            100m
                                                                                                                                                       Gold
                                       Paris
                                                        Athletics
                                                                     Athletics
                                                                                                                                                  M
                                                                                                                      Men
                                                                                         BURKE, Thomas USA
                 13
                                                 1896 Athletics
                                                                     Athletics
                                                                                                                            100m
                                                                                                                                                      Gold
                                      Athens
                                                                                                                      Men
             olympic_data.query("(Medal=='Gold')and(Event=='100m')and(Discipline=='Athletics')and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athlete',]
                Input In [23]
                   olympic_data.query("(Medal=='Gold')and(Event=='100m')and(Discipline=='Athletics')and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athletics']and(Gender=='Men')").sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['Edition'],ascending=False).sort_values(['
             SyntaxError: unexpected EOF while parsing
             olympic_data.query("(Medal=='Gold')and(Event=='100m')and(Discipline=='Athletics')and(Gender=='Men')").sort_values(['Edition'],ascending=False).loc[:,['City','Edition','Athlete','NO(
                                        City Edition
Out[24]:
                                                                          Athlete NOC
             27552
                                      Beijing
                                                 2008
                                                                      BOLT, Usain JAM
             25539
                                                 2004
                                                                    GATLIN, Justin USA
                                      Athens
                                                                GREENE, Maurice USA
             23521
                                                 2000
                                     Sydney
                                                                 BAILEY, Donovan CAN
             21598
                                                 1996
                                      Atlanta
             19859
                                   Barcelona
                                                 1992
                                                                CHRISTIE, Linford GBR
             18284
                                      Seoul
                                                 1988
                                                                      LEWIS, Carl USA
             16794
                                Los Angeles
                                                 1984
                                                                      LEWIS, Carl USA
             15374
                                                 1980
                                                                    WELLS, Allan GBR
                                    Moscow
             14069
                                    Montreal
                                                 1976
                                                              CRAWFORD, Hasely
                                                 1972
             12902
                                                                  BORZOV, Valery URS
                                     Munich
             11865
                                      Mexico
                                                 1968
                                                               HINES, James Ray USA
             10823
                                                 1964
                                                                   HAYES, Robert USA
                                      Tokyo
               9924
                                                 1960
                                                                     HARY, Armin EUA
                                      Rome
                                                 1956
                                                        MORROW, Robert Joseph USA
               9009
                     Melbourne / Stockholm
               8121
                                     Helsinki
                                                 1952
                                                                 REMIGINO, Lindy USA
                                                                DILLARD, Harrison USA
               7302
                                     London
                                                 1948
               6427
                                      Berlin
                                                 1936
                                                                   OWENS, Jesse USA
               5806
                                                 1932
                                                                    TOLAN, Eddie USA
                                Los Angeles
               5095
                                                 1928
                                                                 WILLIAMS, Percy CAN
                                 Amsterdam
                                                 1924
               4236
                                       Paris
                                                              ABRAHAMS, Harold GBR
               2996
                                    Antwerp
                                                 1920
                                                               PADDOCK, Charles USA
               2022
                                  Stockholm
                                                 1912
                                                                    CRAIG, Ralph USA
               1191
                                     London
                                                 1908
                                                               WALKER, Reginald RSA
                737
                                                 1904
                                     St Louis
                                                                    HAHN, Archie USA
                231
                                       Paris
                                                 1900
                                                                  JARVIS, Francis USA
                 13
                                      Athens
                                                 1896
                                                                  BURKE, Thomas USA
```

In [2]: **import** pandas **as** pd

In [4]: olympic_data.index.values

olympic_data=pd.read_csv("https://raw.githubusercontent.com/svkarthik86/Advance-Python-Numpy/main/olympics.csv",skiprows=4)