Q.1 In which events did JESSE OWENS won a medal

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

Out[3]: City Edition Sport Discipline Athlete NOC Gender Event Event_gender Medal 100m freestyle Gold **0** Athens 1896 Aquatics HAJOS, Alfred HUN Swimming Men HERSCHMANN, Otto 1 Athens 1896 Aquatics Swimming Men 100m freestyle Silver **2** Athens 1896 Aquatics Swimming DRIVAS, Dimitrios GRE Men 100m freestyle for sailors Bronze Swimming MALOKINIS, Ioannis GRE Men 100m freestyle for sailors **3** Athens 1896 Aquatics Gold 1896 Swimming Aquatics CHASAPIS, Spiridon GRE Men 100m freestyle for sailors Silver **4** Athens 29211 84 - 96kg Silver Beijing 2008 Wrestling Wrestling Gre-R ENGLICH, Mirko GER Men M 2008 Wrestling Wrestling Gre-R MIZGAITIS, Mindaugas 96 - 120kg Bronze 29212 Beijing Men 29213 Beijing 2008 Wrestling Wrestling Gre-R PATRIKEEV, Yuri ARM Men 96 - 120kg Bronze 29214 Beijing 2008 Wrestling Wrestling Gre-R LOPEZ, Mijain Men 96 - 120kg Gold 29215 BAROEV, Khasan RUS 96 - 120kg Beijing 2008 Wrestling Wrestling Gre-R Silver Men

29216 rows × 10 columns

olympic_data[olympic_data.Athlete.str.contains('OWENS')].Event.values

array(['100m', '200m', '4x100m relay', 'long jump'], dtype=object) Out[4]:

Q.2 Countries which won most gold medal in singles badminton

olympic_data[(olympic_data.Medal=='Gold')&(olympic_data.Gender=='Men')&(olympic_data.Event=='singles')&(olympic_data.Discipline=='Badminton')].sort_values(['At

Sport Discipline Athlete NOC Gender Out[6]: City Edition Event Event_gender Medal 20045 Barcelona 1992 Badminton Badminton BUDI KUSUMA, Alan INA Men singles Gold 25734 Athens 2004 Badminton Badminton HIDAYAT, Taufik INA singles Gold Men 21787 Gold Atlanta 1996 Badminton Badminton HOYER-LARSEN, Poul Erik DEN Men singles M 23717 Sydney 2000 Badminton Badminton Gold JI, Xinpeng CHN Men singles 27741 Beijing LIN, Dan CHN Gold 2008 Badminton Badminton Men singles M

Q.3 Countries which receives most medals sorted from recent years

olympic_data[(olympic_data.Edition>=1984)&(olympic_data.Edition<=1984)]["NOC"].value_counts().head(3) In [7]

USA 333 Out[7]: FRG 157 ROU 106 Name: NOC, dtype: int64

Q.4 List of gold medal winners-male in 100m track event

olympic=olympic_data[(olympic_data.Medal=='Gold')&(olympic_data.Gender=='Men')&(olympic_data.Event=='100m')&(olympic_data.Discipline=='Athletics')] olympic

Athlete NOC Gender Event Event_gender

Medal

Out[9]: City Edition Sport Discipline Athlete NOC Gender Event Event_gender Medal BURKE Thomas USA Men 100m 231 Paris 1900 Athletics Athletics JARVIS, Francis USA Men 100m Gold St Louis HAHN, Archie 737 1904 Athletics **Athletics** USA Men 100m M Gold WALKER, Reginald RSA 1191 London 1908 Athletics Athletics Men 100m Gold 2022 1912 Athletics CRAIG, Ralph USA Stockholm 100m Gold **Athletics** Men M 2996 Antwerp 1920 Athletics **Athletics** PADDOCK, Charles USA 100m Gold Men ABRAHAMS, Harold GBR 4236 Paris 1924 Athletics **Athletics** Men 100m M Gold 5095 Amsterdam 1928 Athletics **Athletics** WILLIAMS, Percy CAN 100m Gold Men 5806 TOLAN, Eddie USA Los Angeles 1932 **Athletics Athletics** 100m M Gold Men 6427 Berlin 1936 Athletics **Athletics** OWENS, Jesse USA 100m Gold Men 7302 DILLARD, Harrison Gold London 1948 Athletics **Athletics** USA 100m Μ Men 8121 Helsinki 1952 Athletics **Athletics** REMIGINO, Lindy USA Men 100m Gold MORROW, Robert Joseph 9009 Melbourne / Stockholm 1956 **Athletics** Athletics USA 100m Gold Men M 9924 Rome 1960 Athletics **Athletics** HARY, Armin EUA 100m Gold Men HAYES, Robert USA 10823 Tokyo 1964 Athletics **Athletics** 100m M Gold Men 11865 Mexico 1968 Athletics **Athletics** HINES, James Ray USA 100m Gold Men 12902 BORZOV, Valery URS Munich 1972 Athletics **Athletics** Men 100m Μ Gold 14069 Montreal 1976 Athletics **Athletics** CRAWFORD, Hasely 100m Gold Men 15374 WELLS, Allan GBR Gold 1980 **Athletics Athletics** 100m Μ Moscow Men 16794 Los Angeles 1984 Athletics **Athletics** LEWIS, Carl USA 100m Gold Men 18284 1988 100m LEWIS, Carl USA Gold Seoul Athletics **Athletics** Men M 19859 Barcelona 1992 **Athletics Athletics** CHRISTIE, Linford GBR Men 100m Gold Atlanta 21598 1996 **Athletics Athletics** BAILEY, Donovan CAN 100m M Gold Men 23521 Sydney 2000 Athletics **Athletics** GREENE, Maurice USA 100m Gold Men 25539 **Athens** 2004 **Athletics Athletics** GATLIN, Justin USA M Gold Men 100m 27552 Beijing 2008 Athletics **Athletics** BOLT, Usain JAM Men 100m Gold

olympic=olympic.sort_values(by=['Edition'], ascending=False) In [11]: olympic

Sport Discipline

City Edition

Out[11]:

27552 Beijing 2008 **Athletics Athletics** BOLT, Usain JAM 100m Gold Men 25539 **Athens** 2004 Athletics Athletics GATLIN, Justin USA Men 100m Gold 23521 Sydney 2000 **Athletics Athletics** GREENE, Maurice USA Men 100m M Gold Gold 21598 Atlanta 1996 Athletics Athletics BAILEY, Donovan CAN Men 100m 19859 CHRISTIE, Linford GBR Barcelona 1992 **Athletics Athletics** Men 100m M Gold 18284 1988 LEWIS, Carl USA Seoul Athletics Athletics Men 100m Gold 16794 Los Angeles 1984 **Athletics Athletics** LEWIS, Carl USA Men 100m M Gold 15374 WELLS, Allan GBR M Gold Moscow 1980 Athletics Athletics Men 100m CRAWFORD, Hasely 14069 Montreal 1976 Athletics **Athletics** TRI Men 100m Μ Gold 12902 Munich 1972 **Athletics** Athletics BORZOV, Valery URS Men 100m Gold 11865 Mexico 1968 Athletics **Athletics** HINES, James Ray USA 100m Gold Men M 10823 Tokyo 1964 Athletics **Athletics** HAYES, Robert USA Men 100m Gold 9924 Rome 1960 **Athletics Athletics** HARY, Armin EUA 100m Gold Men M **Athletics** 9009 Melbourne / Stockholm 1956 Athletics MORROW, Robert Joseph USA Men 100m Gold REMIGINO, Lindy 8121 Helsinki 1952 **Athletics** USA 100m Gold Athletics Men M 7302 London 1948 Athletics **Athletics** DILLARD, Harrison USA Men 100m Gold 1936 Athletics OWENS, Jesse USA 6427 Berlin **Athletics** Men 100m Μ Gold 5806 Los Angeles 1932 Athletics Athletics TOLAN, Eddie USA Men 100m Gold 5095 1928 **Athletics** WILLIAMS, Percy CAN Gold Amsterdam Athletics Men 100m Athletics 4236 Paris 1924 **Athletics** ABRAHAMS, Harold GBR Men 100m Gold PADDOCK, Charles USA 2996 1920 **Athletics Athletics** 100m Gold Antwerp Men M 2022 Stockholm 1912 Athletics Athletics CRAIG, Ralph USA 100m Gold Men 1191 1908 **Athletics Athletics** WALKER, Reginald RSA 100m Gold London Men M 737 St Louis 1904 Athletics Athletics HAHN, Archie USA Men 100m Gold 231 JARVIS, Francis USA 1900 Athletics **Athletics** 100m Μ Gold Paris Men BURKE, Thomas USA 13 **Athens** 1896 Athletics **Athletics** Men 100m Gold

Sliced data for specified columns

In [12]:

olympic[['City', 'Edition', 'Athlete', 'NOC']] Out[12]: City Edition Athlete NOC BOLT, Usain JAM 27552 2008 Beijing 25539 2004 **Athens** GATLIN, Justin USA GREENE, Maurice USA 23521 Sydney 2000 21598 1996 BAILEY, Donovan CAN Atlanta CHRISTIE, Linford GBR 19859 Barcelona 1992 1988 LEWIS, Carl USA 18284 Seoul LEWIS, Carl USA 16794 Los Angeles 1984 15374 Moscow 1980 WELLS, Allan GBR CRAWFORD, Hasely 14069 1976 TRI Montreal BORZOV, Valery URS 12902 1972 Munich HINES, James Ray USA 11865 1968 Mexico 10823 1964 Tokyo HAYES, Robert USA 9924 1960 HARY, Armin EUA Rome MORROW, Robert Joseph 9009 Melbourne / Stockholm 1956 8121 Helsinki 1952 REMIGINO, Lindy USA 7302 1948 DILLARD, Harrison USA London 6427 1936 USA Berlin OWENS, Jesse 5806 Los Angeles 1932 TOLAN, Eddie USA 5095 Amsterdam 1928 WILLIAMS, Percy CAN 4236 1924 ABRAHAMS, Harold GBR **Paris** 2996 1920 PADDOCK, Charles USA Antwerp 2022 Stockholm 1912 CRAIG, Ralph USA 1191 1908 WALKER, Reginald RSA London 1904 737 St Louis HAHN, Archie USA 231 1900 JARVIS, Francis USA Paris 13 1896 Athens BURKE, Thomas USA