Olympic data problem

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)

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

29216 rows × 10 columns

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

array(['100m', '200m', '4x100m relay', 'long jump'], dtype=object) Out[2]

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(['Athlete'])

Out[3]: City Edition Sport Discipline Athlete NOC Gender Event Event_gender Medal 20045 Barcelona 1992 Badminton Badminton BUDI KUSUMA, Alan INA Men singles M Gold 25734 **Athens** 2004 Badminton Badminton HIDAYAT, Taufik INA singles Gold Men 21787 Atlanta 1996 Badminton Badminton HOYER-LARSEN, Poul Erik DEN singles Gold Men 23717 Gold Sydney 2000 Badminton Badminton JI, Xinpeng CHN Men singles 27741 2008 Badminton Badminton LIN, Dan CHN M Gold Beijing Men singles

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 [4]:

Out[4]: FRG 157 R0U 106 Name: NOC, dtype: int64

USA

Out[5]:

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')] In [5]: olympic

Athlete NOC Gender

Event Event_gender

Medal

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

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

Sport Discipline

City Edition

Out[6]: 27552 Beijing BOLT, Usain JAM Gold 2008 Athletics Athletics Men 100m M 25539 Athens 2004 Athletics **Athletics** GATLIN, Justin USA 100m Gold Men 23521 Sydney 2000 GREENE, Maurice USA Μ Gold Athletics Athletics Men 100m 21598 Atlanta 1996 Athletics **Athletics** BAILEY, Donovan CAN Men 100m Gold 19859 1992 Athletics CHRISTIE, Linford GBR M Gold Barcelona Athletics Men 100m 18284 Seoul 1988 Athletics **Athletics** LEWIS, Carl USA 100m Gold Men 16794 Los Angeles LEWIS, Carl USA Gold 1984 Athletics Athletics Men 100m M 15374 Moscow 1980 Athletics Athletics WELLS, Allan GBR Men 100m Gold Montreal CRAWFORD, Hasely TRI 14069 1976 Athletics Athletics Men 100m Μ Gold 12902 Munich 1972 Athletics **Athletics** BORZOV, Valery URS 100m Gold Men HINES, James Ray USA 11865 1968 M Gold Mexico Athletics Athletics Men 100m 10823 Tokyo 1964 Athletics Athletics HAYES, Robert USA 100m Gold Men 9924 1960 HARY, Armin EUA 100m M Gold Rome Athletics Athletics Men Melbourne / Stockholm 1956 Athletics Athletics MORROW, Robert Joseph USA Men 100m Gold 8121 1952 Athletics REMIGINO, Lindy USA Helsinki Athletics Men 100m M Gold 1948 Athletics 7302 London **Athletics** DILLARD, Harrison USA 100m Gold Men 6427 Berlin 1936 Athletics OWENS, Jesse USA 100m Gold Athletics Men M 5806 Los Angeles 1932 Athletics **Athletics** TOLAN, Eddie USA Men 100m Gold 5095 Amsterdam 1928 Athletics Athletics WILLIAMS, Percy CAN Men 100m M Gold 4236 1924 Athletics Athletics ABRAHAMS, Harold GBR 100m Gold Paris Men 1920 Athletics 2996 PADDOCK, Charles USA 100m Gold Antwerp Athletics Men 2022 Stockholm 1912 Athletics Athletics CRAIG, Ralph USA 100m Gold Men 1908 Athletics WALKER, Reginald RSA 1191 London Athletics Men 100m Gold 1904 Athletics 737 St Louis Athletics HAHN, Archie USA Men 100m Gold Gold 231 1900 Athletics Athletics JARVIS, Francis USA 100m Paris Men BURKE, Thomas USA 13 Athens 1896 Athletics Athletics Men 100m Gold

Sliced data for specified columns

In [7]: olympic[['City', 'Edition', 'Athlete', 'NOC']]

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