RangeIndex: 1074	ion () core.frame.DataFrame'> 4 entries, 0 to 1073 btal 10 columns): Non-Null Count Dtype
1 Valuation 2 Date Joined 3 Industry 4 City 5 Country/Reg 6 Continent 7 Year Founde 8 Funding 9 Select Invedtypes: int64(1) memory usage: 84 # Get description	1074 non-null object in 1074 non-null object 1074 non-null object 1058 non-null object 1058 non-null object 1074 non-null object 1075 non-null object 1076 non-null object 1077 non-null object 1078 non-null object 1079 n
# Step 2. Updat companies["Date companies.info(<class 'pandas.c<br="">RangeIndex: 1074</class>	ded 177 178 179 179 170 170 170 170 170 170
# Column 0 Company 1 Valuation 2 Date Joined 3 Industry 4 City 5 Country/Reg 6 Continent 7 Year Founde 8 Funding 9 Select Investypes: datetime memory usage: 84 # Step 1: Use . # Step 2: Add t	1074 non-null object 1058 non-null object gion 1074 non-null object 1074 non-null object ad 1074 non-null int64 1074 non-null int64 1074 non-null object estors 1073 non-null object estors 1073 non-null object 1064[ns](1), int64(1), object(8) 1.0+ KB adt.year to extract year component from Date Joined column the result as a new column named Year Joined to the DataFrame
Companies head (Company Description of the state of the	Nation Date Joined Industry City Country/Region Continent Marificial Intelligence Beijing China Asia 2012 \$88 Sequois Capital China, SIG Asia Investments, S 2017 \$1008 2012-12-01 Other Hawthorn United States North America 2002 \$78 Founders Fund, Draper Fisher Jurvetson, Rother 2012 \$1008 2014-01-23 Founders & direct-to-consumer Search Consumer Search Stockholm Stockholm Sweden Europe 2005 \$48 Institutional Venture Partners, Sequois Capital China, SIG Asia Investments, S 2018 \$1014-01-23 Fintech San Francisco United States North America 2010 \$28 Khoela Ventures, Lowercase Capital, capital General China 2018 \$1014-01-23 Fintech Stockholm Sweden Europe 2005 \$48 Institutional Venture Partners, Sequois Capital 2011 \$1018-01-01-01 Tinternet software & services Surry Hills Australia Oceania 2012 \$572M Sequois Capital China, Blackbird Ventures, Mat 2018 \$1019-05-02 Fintech Sun Francisco United States North America 2012 \$38 Khoela Ventures, Kleiner Perkins Caufield & By 2019 \$1019-05-02 Consumer & retail San Francisco United States North America 2015 \$148 Tiger Global Management, Insight Partners, DST 2019 \$1019-05-02 Consumer & retail San Francisco United States North America 2015 \$148 Tiger Global Management, Insight Partners, DST 2019 \$1019-05-02 Data management & analytics San Francisco United States North America 2015 \$148 Tiger Global Management, Insight Partners, DST 2019 \$1019-05-02 Supply chain, logistics, & delivery San Francisco United States North America 2015 \$148 Tiger Global Management, Insight Partners, DST 2019
542 370 307 493	Company Valuation Date Joined Industry City Country/Region Conflient Vear Founded Funding Select Investors Vear Joined Aven 328 2021-10-18 Internet software & services Heisinki Finland Europe 2016 8210M Institutional Venture Partners, Alomico, Early 2021 Judioun Big Data Management & analytics Beijing China Asia 829 2014-07-29 Data management & analytics Beijing China Asia 829 2014-07-29 Partners & Services San Francisco United States North America 2014 8379M M12, WestBridge Capital, Lightspeed Venture Partners, DIG Capital Partners, Capital Storm Venture Partners, DIG Capital Partners, Capital Storm Ventures Partners, DIG Capital Partners, Capital Storm Ventures Partners, DIG Capital Partners, Capital Partners, Capital Partners, Capital Partners, Capital Partners, DIG Capital P
361 1073 737 327 842 718 192 657 549 Black Sesa	Tonal \$28 2021-03-31 E-commerce & direct-lo-consumer San Francisco United States North America 2015 \$450M Meryfield Fund, Shaeta Ventures, L Catterton 2021
107 670 1008 243 570 88 51 736 381 308 746 318 31 424 867	Deel \$68 2021-04-21
<pre>companies_sampl # Group the dat grouped = (comp</pre>	Lattice \$3B 2021-03-23 Internet software & services San Francisco United States North America 2015 \$329M Khosla Ventures, Thrive Capital, Y Combinator 2021 for plotting years_till_unicorn` column le["years_till_unicorn"] = companies_sample["Year Joined"] - companies_sample["Year Founded"] ta by `Industry`. For each industry, get the max value in the `years_till_unicorn` column. panies_sample[["Industry", "years_till_unicorn"]] pupby ("Industry")
Auto & Artific Data managem Mobile & teleco Supply chain, logis Internet softw E-commerce & direct # Create bar pl # with Industry # and the diffe plt.bar(grouped # Set title	setics, & delivery 12 vare & services 13 Other 15 Other 15 Printech 21 Health 21 Tot v column as the categories of the bars evence in years between Year Joined column and Year Founded column as the heights of the bars d.Index. grouped("years_till_unicorn"))
<pre># Set x-axis la plt.xlabel("Ind # Set y-axis la plt.ylabel("Max # Rotate labels</pre>	dustry") abel ximum number of years") s on the x-axis as a way to avoid overlap in the positions of the text ation=45, horizontalalignment='right')
20. Maximum number of years 15. 2. 2. 0.	.5
# Create new cocompanies_sampl # Remove the 'Scompanies_sampl # Remove the 'Ecompanies_sampl # Convert colum companies_sampl companies_sampl Companies_sampl	<pre>cumn representing company valuation as numeric data column le['valuation_billions'] = companies_sample['Valuation'] \$' from each value le['valuation_billions'] = companies_sample['valuation_billions'].str.replace('\$', '') B' from each value le['valuation_billions'] = companies_sample['valuation_billions'].str.replace('B', '') mn to type int le['valuation_billions'] = companies_sample['valuation_billions'].astype('int')</pre>
370 Jusfoun Big E 307 Innovae 493 Alg 350 SouChe Hold # Prepare data grouped = (comp .gro .max .sor)	Data \$2B 2018-07-09 Data management & analytics Beijing China Asia 2010 \$137M Boxin Capital, DT Capital Partners, IDG Capital 2018 8 2 accer \$3B 2021-02-19 Health San Francisco United States North America 2014 \$379M M12, WestBridge Capital, Lightspeed Venture Pa 2021 7 3 golia \$2B 2021-07-28 Internet software & services San Francisco United States North America 2012 \$334M Accel, Alven Capital, Storm Ventures 2021 9 2 dings \$3B 2017-11-01 E-commerce & direct-to-consumer Hangzhou China Asia 2012 \$1B Morningside Ventures, Warburg Pincus, CreditEa 2017 5 3 afor model ing panies_sample [["Industry", "valuation_billions"]]
Data managem E-commerce & direct Internet softw Mobile & telect	Cybersecurity 3 Health 3 nent & analytics 4
# and new valua plt.bar(grouped # Set title plt.title("Bar # Set x-axis la plt.xlabel("Ind # Set y-axis la plt.ylabel("Max # Rotate labels plt.xticks(rota # Display the p plt.show() Bar plot of max	y column as the categories of the bars ation column as the heights of the bars d.index, grouped("valuation_billions")) plot of maximum unicorn company valuation per industry (from sample)") abel dustry") abel ximum valuation in billions of dollars") s on the x-axis as a way to avoid overlap in the positions of the text ation=45, horizontalalignment='right')
12 - 8 - 10 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -	Data rite Interimete Interimobile
<pre># Conclusion # Functions in # The info() an # Functions in</pre>	the pandas library can be used to gather characteristics about the data at hand. Ind describe() functions were especially useful for gathering basic information about a dataset and finding descriptive statistics, respectively. In the matplotlib.pyplot module can be used to create visualizations to further understand specific aspects of the data. In the matplotlib pyplot module can be used to create visualizations to further understand specific aspects of the data. In the matplotlib pyplot module can be used to create visualize categorical information about the data. In the maximum years to become a unicorn and maximum valuation for each industry represented in the sample taken from the data.