0 Algeri 1 Algeri 2 Algeri 3 Algeri 4 Algeri Explo	<pre>ta = pd.read_csv('population.csv') ta_copy = pop_data.copy()  the first five rows. tod_data.head()) tp_data.head())  ry</pre>
RangeInde Data colu # Colu 0 Cour 1 Item 2 Year 3 Valu dtypes: i	pandas.core.frame.DataFrame'> ex: 23110 entries, 0 to 23109 umns (total 4 columns): umn Non-Null Count Dtype
memory us  Colass 'g  RangeInde  Data colu  # Colu  O Cour  1 Year  2 Valu  dtypes: i  memory us  #There as	<pre>sage: 722.3+ KB pandas.core.frame.DataFrame'&gt; ex: 450 entries, 0 to 449 umns (total 3 columns): umn Non-Null Count Dtype</pre>
Country Country Cear Value Country Cear Value Itype: ir	23110 23110 23110 23110 0 164 450 450 450 164
(23110, 4)	the number of rows and columns in the data rod_data.shape, sup_data.shape)  4) (450, 3)  the summary statistics of both numeric and text data ra.describe(include='all')  Country   tem   Year   Value    23110   23110   23110.000000   23110.000000    45   94   NaN   NaN   NaN
top Un freq mean std min 25% 50% 75% max	NaN
count unique top Bo freq mean	10 NaN NaN NaN 2008.500000 2469.775556
std min 25% 50% 75% max	NaN 2.875478 379.140143  NaN 2004.000000 1781.000000  NaN 2006.000000 2174.000000  NaN 2008.500000 2376.000000  NaN 2011.000000 2681.750000  NaN 2013.000000 3561.000000
Year_production (Year_product) year_production (Year_product) plt.title plt.ylabe plt.xlabe plt.xlabe	<pre>ne highest production year and visualize od_value = prod_data.groupby('Year')['Value'].sum() ear_prod_value.sort_values(ascending=False)) are(figsize=(8,9)) od_value.sort_values(ascending=False).plot(kind='line') ee('Food production in Africa') eel('Value in kilotons(kt)') eel('Years') f()</pre>
2012 8 2011 8 2010 7 2009 7 2008 7 2006 7 2007 7 2005 6	841667 812214 786466 746870 736804 718602 705659 691257 663006 lue, dtype: int64 Food production in Africa
Value in kilotons(kt) 0000008 0000008	
Value in 200000 - 7000000 -	
There was been on the find the fear_supprint (Year bolt.figur	vas a slight reduction from 2006 to 2007. Apart from that, food production in after the increase for the given data.  The highest supply year and visualize of value = sup_data.groupby('Year')['Value'].sum()  The var_sup_value.sort_values(ascending=False))  The value is supply year and visualize of value is sup_data.groupby('Year')['Value'].sum()  The value is supply year and visualize of value is sort_values(ascending=False))  The value is supply year and visualize of value is sup_value.sort_values(ascending=False))  The value is supply year and visualize of value is year.
Polt.ylabe polt.xlabe polt.show Year 2013 1 2012 1 2011 1 2010 1 2009 1	113951 113744 113194 112383 111700
2006 1 2005 1 2004 1	110149 109386 108418 107740 lue, dtype: int64  Food supply in Africa
Value in kilotons(kt) - 000011 - 000011	
	2004 2006 2008 2010 2012  an upward trend in the supply of food as year increase.
#Find the Year_procedure Polt.figur Year_procedure Polt.title Polt.ylabe Polt.xlabe Polt.show	the average production by year and visualize  od_mean = prod_data.groupby('Year')['Value'].mean()  oar_prod_mean.sort_values(ascending=False))  ore(figsize=(8,9))  od_mean.sort_values(ascending=False).plot(kind='line',label="Values of food production in Africa')  oe('Average food production in Africa')  oel('Average value in kilotons(kt)')  oel('Years')
Year 2013 3 3 2012 3 2011 3 2010 3 2009 3 2008 3 2006 3 2007 2 2005 2 2004 2 2	378.227568 364.831816 351.303633 340.166955 323.040657 318.686851 310.814014 305.215830 298.986592 286.767301 lue, dtype: float64  Average food production in Africa
380 - 360 - 340 -	Affica production in Affica
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#Find the Year_sup_ print(Yea	positive trend in the average year production accross the countries too exception decrease.  The average production by year and visualize  To mean = sup_data.groupby('Year')['Value'].mean()  The ar_sup_mean.sort_values(ascending=False))
print (Year Support of the Support o	par_sup_mean.sort_values(ascending=False)) are(figsize=(8,9)) amean.sort_values(ascending=False).plot(kind='line',label="Values of food suppl are('Average food supply in Africa') are('Average value in kilotons(kt)') are('Years') are('Years') are('Years') are('Years') are('Years') are('Years')
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2420 -	2004 2006 2008 2010 2012 Years
# Since to #Let us if # first sorod_data data_2013 data_2013	positive trend in the average supply production accross the countries too.  the highest production year is 2013 find what item was the highest produced in the year 2013. set year as index to locate a.set_index('Year', inplace=True)  3 = prod_data.loc[2013] 3.head() 3.reset_index()
Year  0 2013 1 2013 2 2013 3 2013 4 2013	Country Item Value  Algeria Wheat and products 3299  Algeria Rice (Milled Equivalent) 0  Algeria Barley and products 1499  Algeria Maize and products 1
2304 2013 2305 2013 2306 2013 2307 rows >	Zimbabwe
Item Cassava a Sugar car Maize and Yams Vegetable Fish, Boo Molluscs, Pepper Fish, Liv	d products 70741 60532 es, Other 46243 dy Oil 30 , Other 29 23
Cassava item in a item_prod #print(in item_prod <matplot1< th=""><th>a and products are the highest item produced in 2013, let us find out the higher all the years.  ad_value = prod_data.groupby('Item').sum()  atem_prod_value.sort_values(ascending=False))  ad_value['Value'].sort_values(ascending=False).plot(kind='barh', figsize=(12,20))  lib.axessubplots.AxesSubplot at 0x2a7fe85f648&gt;</th></matplot1<>	a and products are the highest item produced in 2013, let us find out the higher all the years.  ad_value = prod_data.groupby('Item').sum()  atem_prod_value.sort_values(ascending=False))  ad_value['Value'].sort_values(ascending=False).plot(kind='barh', figsize=(12,20))  lib.axessubplots.AxesSubplot at 0x2a7fe85f648>
	Fish, Liver Oil - Pepper - Molluscs, Other - Cloves - Fish, Body Oil - Cream - Rape and Mustard Oil - Sugar non-centrifugal - Rye and products - Coconut Oil - Cephalopods - Sesameseed Oil - Rape and Mustardseed - Aquatic Plants - Crustaceans - Maize Germ Oil - Honey - Sweeteners, Other - Oats - Butter, Ghee - Fats, Animals, Raw -
R	Butter, Ghee
Gr	Butter, Ghee   Fats, Animals, Raw   Cottonseed Oil   Spices, Other   Olive Oil   Alcohol, Non-Food   Soyabean Oil   Marine Fish, Other   Peas   Sunflowerseed Oil   Pimento   Tea (including mate)   Oilcrops Oil, Other   Beverages, Alcoholic   Palmkernel Oil   Forapefruit and products   Coffee and products   Coffee and products   Rigmeat   Wine   Groundnut Oil   Demersal Fish
Gr Lemon Olives Coco	Butter, Ghee - Fats, Animals, Raw - Cottonseed Oil - Spices, Other - Olive Oil - Alcohol, Non-Food - Soyabean Oil - Marine Fish, Other - Peas - Sunflowerseed Oil - Pimento - Tea (including mate) - Oilcrops Oil, Other - Beverages, Alcoholic - Palmkernel Oil - Palmkernel Oil - Grapefruit and products - ns, Limes and products - Pigmeat - Wine - Groundnut Oil -
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Country Algeria  Fish, Book  Name: Val  # Group a  Grapes and  # We want  # we slid  data_2010  data_2010  1 2010  2 2010  3 2010  2 2010  2 2010  3 2010  2 2010  2 2010  3 2010  2 2010  3 2010  2 2010  3 2010  2 2010  3 2010  2 2010  3 2010  2 309 2010  2 311 2010  2 312 rows a  # Group a  item_2010  print (ite  Cassava a  Fish, Book  Name: Val  # Slice on  Oats = it  print (oat  Country  Algeria  Ethiopia  Ghana  Kenya  Lesotho  Morocco  Sountisia  Ethiopia  Ghana  Kenya  Lesotho  Morocco  Sountry  Algeria  Ethiopia  Ghana  Kenya  Lesotho  Morocco  Sountisia  Ethiopia  Ghana  Kenya  Lesotho  Morocco  Sountry  Algeria  Ethiopia  Ghana  Kenya  Lesotho  Morocco  Sountry  Algeria  Ethiopia  Ghana  Kenya  Lesotho  Morocco  Sountry  Algeria  Ethiopia  Country  Algeria  Ethiopia  Morocco  Sountry  Sierra  Ethiopia  Morocco  Country  Sierra  Ethiopia  Morocco  Country  Sierra  Morocco  Country  Sierra  Ethiopia  Morocco  Country  Sierra  Morocco  Country  Morocco  Country  Morocco  Country  Morocco  Country  Morocco  Morocco  Country  Morocco  Morocco  Morocco  Country  Morocco  Morocco  Morocco  Morocco  Morocco  Morocco	Simulation of the control of the con
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	<pre>Dji_prod = Djibouti.groupby('Item')['Value'].sum() Dji_prod.sort_values(ascending= False)  Item Vegetables, Other</pre>
	Beans 20 Offals, Edible 19 Lemons, Limes and products 18 Fruits, Other 17 Tomatoes and products 13 Meat, Other 10 Pelagic Fish 8 Demersal Fish 6 Pimento 3 Marine Fish, Other 1 Sugar (Raw Equivalent) 0
	Maize and products 0 Oranges, Mandarines 0 Fats, Animals, Raw 0 Dates 0 Crustaceans 0 Cephalopods 0 Sugar cane 0 Name: Value, dtype: int64
	#find the spread of the production data using boxplot Year_prod_value.plot(kind='box', figsize=(12,7))  plt.title('Distribution of food production for 45 Africa countries') plt.ylabel('Amount of food production(kt)')  Text(0, 0.5, 'Amount of food production(kt)')  Distribution of food production for 45 Africa countries
	850000
	700000 - 7000000 - 700000 - 700000 - 700000 - 700000 - 700000 - 700000 - 7000000 - 700000 - 700000 - 700000 - 700000 - 700000 - 700000 - 7000000 - 700000 - 700000 - 700000 - 700000 - 700000 - 700000 - 7000000 - 700000 - 700000 - 700000 - 700000 - 700000 - 700000 - 7000000 - 700000 - 700000 - 700000 - 700000 - 700000 - 700000 - 7000000 - 700000 - 700000 - 700000 - 700000 - 700000 - 700000 - 700000
In [31]:	#find the spread of food production in Nigeria Nga_year = Nigeria.groupby('Year')['Value'].sum() Nga_year.sort_values(ascending= False) Nga_year.plot(kind='box', figsize=(12,7))
Out[31]:	plt.title('Distribution of food production in Nigeria') plt.ylabel('Amount of food production(kt)')  Text(0, 0.5, 'Amount of food production(kt)')  Distribution of food production in Nigeria  180000
	170000 - (X) 165000 - 160000 - 155000 -
	150000 - 145000 - 140000 -
	#find the spread of the supply data using boxplot Year_sup_value.plot(kind='box', figsize=(12,7))  plt.title('Distribution of food supply for 45 Africa countries') plt.ylabel('Amount of food production(kt)')  Text(0, 0.5, 'Amount of food production(kt)')  Distribution of food supply for 45 Africa countries
	113000 - (X) 112000 -
	111000 - 111000 - 1100000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 1100000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 1100000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 1100000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 1100000 - 1100000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000 - 110000
In [33]:	#find the spread of food production in Egypt and compare to Nigeria above  Egy_year = Egypt.groupby('Year')['Value'].sum()  Egy_year.sort_values(ascending= False)  Egy_year.plot(kind='box', figsize=(12,7))
Out[33]:	plt.title('Distribution of food production in Egypt') plt.ylabel('Amount of food production(kt)')  Text(0, 0.5, 'Amount of food production(kt)')  Distribution of food production in Egypt  95000
	92500 -  92500 -  (x) 90000 -  87500 -  85000 -  82500 -
	82500 - 80000 - 77500 - 75000
In [34]:	#Find the distribution of Value of the production data count, bin_edges = np.histogram(prod_data['Value']) print(count) print(bin_edges)
In [35]:	[22880 174 21 15 0 3 6 5 3 3] [ 0. 5400. 10800. 16200. 21600. 27000. 32400. 37800. 43200. 48600. 54000.]  Values of food production in the range 0. to 5400. is 22,880. As the range increases, food production quantity decrease drastically  prod_data.plot(kind='hist', figsize=(10,6), xticks=bin_edges)
III [00].	plt.title('Histogram of food production "Value" in kt') plt.ylabel('Frequency') plt.xlabel('Quantity of Value in kt')  plt.show()  Histogram of food production "Value" in kt  Walue  Walue
	20000 - 15000 - 20000 -
	5000 - 5400 10800 16200 21600 27000 32400 37800 43200 48600 54000  Quantity of Value in kt
In [36]:	
	plt.xlabel('Quantity of Value in kt') plt.show()  Histogram of food supply "Value" in kt  100 - 80 -
	80 - 40 - 20 -
In [37]:	#We find the percentage contribution of food production in the given years #autopct create percentage.  Year_prod_value.plot(kind='pie', figsize=(12, 7), autopct='%1.1f%%', startangle=90,
	Year_prod_value.plot(kind='pie', figsize=(12, 7), autopct='%1.1f%%', startangle=90, shadow=True)  plt.title("Percentage contribution of yearly production value")  plt.axis('equal')  plt.show()  Percentage contribution of yearly production value  2004  2013
	2005 8.8% 11.5% 2012 2006
	9.5% 10.7% 2011 2007 9.7% 9.9% 2010
In [38]:	
	plt.axis('equal') plt.show()  Percentage contribution of yearly supply value 2004 2013
	9.8% 10.2% 2011
Jr	# find the spread of supply of food in 2004
	<pre>sup_2004 = sup_data.loc[2004] sup_2004.plot(kind='box', figsize=(12,7))  <matplotlib.axessubplots.axessubplot 0x2a7ff90ebc8="" at=""></matplotlib.axessubplots.axessubplot></pre>
	2800 - 2600 - 2400 -
	2200 - 2000 - 1800 - Value
<pre>In [40]: Out[40]:</pre>	There are outliers present, we can find the countries having those outliers <pre>sup_2004.head() sup_2004.reset_index().sort_values(by="Value", ascending=False)</pre> Year
	27       2004       Morocco       3263         40       2004       Tunisia       3248         26       2004       Mauritius       3023         0       2004       Algeria       2987         36       2004       South Africa       2940         10       2004       Cote d'Ivoire       2738
	16       2004       Ghana       2682         14       2004       Gabon       2676         31       2004       Nigeria       2655         25       2004       Mauritania       2599         20       2004       Lesotho       2541         24       2004       Mali       2540         5       2004       Cabo Verde       2523
	33       2004       Sao Tome and Principe       2513         4       2004       Burkina Faso       2505         38       2004       Swaziland       2469         15       2004       Gambia       2465         2       2004       Benin       2461         30       2004       Niger       2453
	17       2004       Guinea       2426         41       2004       Uganda       2351         37       2004       Sudan       2271         29       2004       Namibia       2268         9       2004       Congo       2263         18       2004       Guinea-Bissau       2257         34       2004       Senegal       2248
	34       2004       Senegal       2248         39       2004       Togo       2246         6       2004       Cameroon       2246         3       2004       Botswana       2191         23       2004       Malawi       2166         11       2004       Djibouti       2136         42       2004       United Republic of Tanzania       2098
	21       2004       Liberia       2092         28       2004       Mozambique       2059         44       2004       Zimbabwe       2044         1       2004       Angola       2030         8       2004       Chad       2026         35       2004       Sierra Leone       2024
	19       2004       Kenya       2022         7       2004       Central African Republic       1989         22       2004       Madagascar       1980         32       2004       Rwanda       1969         13       2004       Ethiopia       1882         43       2004       Zambia       1866
<pre>In [41]: Out[41]:</pre>	The countries are Egypt, Morocco and Tunisia(they have high values compare to others).  # Find the spread of supply of food in 2012 sup_2012 = sup_data.loc[2012] sup_2012.head() sup_2012.reset_index() sup_2012.plot(kind='box', figsize=(12,7))
Jut[41]:	<matplotlib.axessubplots.axessubplot 0x2a7ff8b1148="" at=""></matplotlib.axessubplots.axessubplot>
out[41]:	<pre><matplotlib.axessubplots.axessubplot 0x2a7ff8b1148="" at=""></matplotlib.axessubplots.axessubplot></pre> <pre>3500 -</pre>
out[41]:	3500 -
Out[41]:	There is an outlier present , we can find the outlier with the code below and "Eqypt" is the outlier. We can find for the remaining years too.
	There is an outlier present, we can find the outlier with the code below and "Eqypt" is the outlier. We can find for the remaining years too.   sup_2012_country = sup_2012 .groupby('Country')['Value'].sum() print(sup_2012_country.sort_values(ascending=False))  Country Egypt 3861 Tunisia 3390 Morocco 3366 Algeria 3272 Gnana 3043 South Africa 3014 Mauritius 3014
	There is an outlier present, we can find the outlier with the code below and "Eqypt" is the outlier. We can find for the remaining years too.  sup_2012_country_=sup_2012_cycoupty('Country')['Value'].sum() print(sup_2012_country.sort_values(ascending-False))  Country Egypt Tunisis 3390 Moranca 3366 Algeris 3772 Ghana 3043 South Africa 3014 Rearitius
	There is an outlier present, we can find the outlier with the code below and "Eqypt" is the outlier. We can find for the remaining years too.
	There is an outlier present, we can find the outlier with the code below and "Eqypt" is the outlier. We can find for the remaining years too.    Sup_2012_country = sup_2012_groupby ('Country') ('Value').sum()   print   sup_2012_country.set_values (sacending=Palse))   Country = Sup_2012_country.set_values (sacending=Palse)
	There is an outlier present, we can find the outlier with the code below and "Eqypt" is the outlier. We can find for the remaining years too.    Supplementaries   Supplemen
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In [42]: In [43]: In [44]:	There is an outlier present, we can find the outlier with the code below and "Eqypt" is the outlier. We can find for the remaining years too.  There is an outlier present, we can find the outlier with the code below and "Eqypt" is the outlier. We can find for the remaining years too.  The code of the remaining years too.  The code of the co
<pre>In [43]: In [44]: Out [44]:</pre>	### There is an outlier present, we can find the outlier with the code below and "Eqypt" is the outlier. We can find for the remaining years too.  #### April 10
<pre>In [43]: In [44]: Out [44]:</pre>	There is an outlier present, we can find the outlier with the code below and "Exypt" is the outlier. We can find for the remaining years too.  There is an outlier present, we can find the outlier with the code below and "Exypt" is the outlier. We can find for the remaining years too.  There is an outlier present, we can find the outlier with the code below and "Exypt" is the outlier. We can find for the remaining years too.  There is an outlier present, we can find the outlier with the code below and "Exypt" is the outlier. We can find for the remaining years too.  There is an outlier present, we can find the outlier with the code below and "Exypt" is the outlier. We can find the outlier with the code below and "Exypt" is the outlier. We can find the outlier with the code below and "Exypt" is the outlier. We can find the outlier with the code below and "Exypt" is the outlier. We can find the outlier with the code below and "Exypt" is the outlier. We can find the outlier with the code below and "Exypt" is the outlier. We can find the outlier with the code below and "Exypt" is the outlier. We can find the outlier with the code below and "Exypt" is the outlier. We can find the outlier with the code below and "Exypt" is the outlier. We can find the outlier with the code below and "Exypt" is the outlier. We can find the outlier.
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