In [4]:	1 2 2 3 3 4 4 5 495 496 496 497 497 498 498 499 500 500 rows × 9 colum	324 316 322 314 332 337 330 312 327 ns	107 104 110 103 108 117 120 103 113	4 4.0 3 3.0 3 3.5 2 2.0 5 4.5 5 5.0 5 4.5 4 4.0 4 4.5	4.5 8.87 3.5 8.00 2.5 8.67 3.0 8.21 4.0 9.02 5.0 9.87 5.0 9.56 5.0 8.43 4.5 9.04	1 1 0 1 1 1 0	0.76 0.72 0.80 0.65 0.87 0.96 0.93 0.73 0.84	
	500 rows × 9 columns data.shape (500, 9)							
In [6]: In [7]:	2 TOEFL Score 3 University 4 SOP 5 LOR 6 CGPA 7 Research 8 Chance of dtypes: float64 memory usage: 3 #Analysing the	re 50 7 Rating 50 50 50 50 Admit 50 4(4), int64(35.3 KB	non-null	int64 int64 float64 float64 float64 int64 float64				
Out[7]:	count500.000000mean250.500000std144.481833min1.00000025%125.75000050%250.50000075%375.250000max500.000000	500.000000 316.472000 11.295148 290.000000 308.000000 317.000000 325.000000	500.000000 107.192000 6.081868 92.000000 103.000000 107.000000 112.000000		3.374000 3 0.991004 0 1.000000 1 2.500000 3 3.500000 3	LOR CGP .00000 500.00000 .48400 8.57644 .92545 0.60481 .00000 6.80000 .00000 8.12750 .50000 8.56000 .00000 9.04000 .00000 9.92000	500.000000 0 0.560000 0 0.496884 0 0.000000 0 0.000000 1.000000 1.000000	500.00000 0.72174 0.14114 0.34000 0.63000 0.72000 0.82000 0.97000
<pre>In [8]: Out[8]:</pre>	Serial No. count 500.000000 mean 250.500000 std 144.481833 min 1.000000 25% 125.750000 50% 250.500000	GRE Score TO 500.000000	.number]) DEFL Score Unit 500.000000 107.192000 6.081868 92.000000 103.000000 107.000000		3.374000 3 0.991004 0 1.000000 1 2.500000 3	LOR CGF .00000 500.00000 .48400 8.57644 .92545 0.60481 .00000 6.80000 .00000 8.12750 .50000 8.56000	500.000000 0 0.560000 0 0.496884 0 0.000000 0 0.000000	Chance of Admit 500.00000 0.72174 0.14114 0.34000 0.63000 0.72000
<pre>In [9]: Out[9]:</pre>	75% 375.250000 max 500.000000 data.describe(SOP count 500.000000 mean 3.374000 std 0.991004 min 1.000000	340.000000 include=[np LOR 500.00000 500 3.48400 8 0.92545 0	CGPA Chance	4.000000 5.000000 e of Admit 500.00000 0.72174 0.14114 0.34000		.00000 9.04000 .00000 9.92000		0.82000
[n [10]: Out[10]:	25% 2.500000 50% 3.500000 75% 4.000000 max 5.000000 data.isnull().s Serial No. GRE Score TOEFL Score University Rations	3.00000 8 3.50000 8 4.00000 9 5.00000 9 Sum()/len(da 0.0 0.0 0.0	3.127500 3.560000 9.040000 9.920000	0.63000 0.72000 0.82000 0.97000				
[n [11]: [n [12]: Out[12]:	LOR CGPA Research Chance of Admit dtype: float64 #Non-Graphical data['Research' 1 56.0 0 44.0 Name: Research,	0.0 0.0 0.0 0.0 Analysis		ata)*100				
In [13]: In [14]: Out[14]: In [15]:	groupby_researd	ch.max() b. GRE Score 0 339 8 340	120 120	niversity Rating 5	5.0 5.0 5.0 5.0	9.70 9.92 , 'mean', 'ma	0.89	
Out[15]:	GRE Score 290 293 1 294 2 295 5 296 5	0.460000 0.47 0.640000 0.64 0.475000 0.69 0.512000 0.69 0.522000 0.61 0.498333 0.59	0.64 0.46 0.37 0.44					
	299 10 300 12 301 11 302 7 303 5 304 12 305 11 306 7	0.507000 0.69 0.537000 0.68 0.595833 0.71 0.624545 0.68 0.558571 0.65 0.590000 0.77 0.570833 0.71 0.624545 0.71 0.642857 0.73 0.627000 0.79	0.38 0.36 0.44 0.46 0.36 0.38 0.53 0.48					
	309 9 310 11 311 16 312 24 313 12 314 16 315 13 316 18	0.655385 0.77 0.637778 0.76 0.667273 0.76 0.665000 0.79 0.685417 0.81 0.696250 0.84 0.645385 0.79 0.661667 0.77	0.48 0.54 0.42 0.50 0.53 0.54 0.39 0.49					
	318 12 319 12 320 16 321 17 322 17 323 13 324 23 325 15	0.690000 0.84 0.702500 0.78 0.729167 0.82 0.790000 0.92 0.805294 0.93 0.784706 0.92 0.785385 0.92 0.813913 0.92 0.742667 0.91 0.822500 0.91	0.63 0.65 0.64 0.69 0.61 0.45 0.70 0.52					
	327 17 328 9 329 10 330 8 331 9 332 8 333 4 334 8	0.822300 0.91 0.801176 0.93 0.848889 0.94 0.853000 0.90 0.906250 0.93 0.918889 0.94 0.893750 0.94 0.930000 0.96 0.916250 0.97 0.940000 0.96	0.61 0.78 0.72 0.86 0.86 0.79 0.89					
In [16]: Out[16]:	337 2 338 4 339 3 340 9 data.groupby(Chan coun	nce of Admit	0.92 0.91 0.89 0.90	ance of Admi	t ':['coun	t', 'mean',	max', 'min']	})
	93 2 94 2 95 3 96 0 97 - 98 10 99 23	1 0.510000 0. 2 0.460000 0. 2 0.490000 0. 3 0.516667 0. 6 0.476667 0. 7 0.502857 0. 0 0.567000 0. 3 0.566957 0. 4 0.597083 0.	46 0.46 56 0.42 62 0.44 54 0.34 65 0.38 76 0.36					
	102 24 103 25 104 29 105 3 106 26 107 26 108 19 109 19	0 0.610500 0. 4 0.651667 0. 5 0.678000 0. 9 0.678966 0. 7 0.648108 0. 8 0.676429 0. 8 0.708214 0. 9 0.724211 0. 9 0.752632 0. 4 0.767045 0.	80 0.50 76 0.52 82 0.42 79 0.39 81 0.52 84 0.53 87 0.45 85 0.62					
	111 20 112 28 113 19 114 18 115 11 116 10 117 8 118 10	0.767045 0. 0.767045 0. 0.767045 0. 0.804000 0. 8 0.800000 0. 9 0.860526 0. 8 0.840556 0. 1 0.879091 0. 6 0.901875 0. 8 0.927500 0. 0 0.925000 0. 0 0.930000 0.	93 0.52 96 0.55 96 0.76 96 0.61 95 0.70 96 0.78 96 0.87 94 0.90					
In [17]: Out[17]: In [18]:	data.groupby(Chance of count in Research 0 220 0	9 0.934444 0. 'Research') of Admit mean max 0.634909 0.89 0.789964 0.97	97 0.86 . agg({'Chanc	e of Admit '	:['count',	'mean', 'max	(', 'min']})	
In [19]:	data['GRE Score <matplotlib.axe< td=""><td>e'].plot(kin</td><td></td><td></td><td>1771a58></td><td></td><td></td><td></td></matplotlib.axe<>	e'].plot(kin			1771a58>			
In [20]: Out[20]:	data['T0EFL Sco	ore'].plot(I			ef4ec50>			
In [21]:	data['CGPA'].p			0)	o£40090>			
Out[21]:	20 - 15 - 10 -		s.AxesSubplo	t at 0x7f1dd	ef4e080>			
[n [22]:	sns.boxplot(x= plt.grid() plt.show()	.5 8.0		9.5 10.0 Chance of A	dmit ', da	ta=data)		
In [23]:	sns.boxplot(x=plt.grid()plt.show()	University 'Research',	y Rating	f Admit ', d	ata=data)			
	0.9	0 Resea	arch 1					
In [24]: In [25]:	GRE Score	lysis ta.corr(),ar size_inches	nnot= True) (10, 5)	_	0.83 0.56 0.81 0.47	0.81 0.79		
	SOP0.0 LOR0.0 CGPA0.0 Research0.0 Chance of Admit - 0.0	0.14 0.61 0037 0.52 074 0.83 0053 0.56	0.64 0.73 0.54 0.61 0.81 0.71 0.47 0.43 0.79 0.60	1 0.66 0.66 1 0.71 0.64 0.41 0.37	0.71 0.43 0.71 0.41 0.64 0.37 1 0.5 0.5 1	0.69 - 0 0.68 - 0 0.65 - 0 0.88 - 0 0.55 - 0	2	
[n [26]:	sns.pairplot(daplt.show()		Unive	mit ', palet	te ='coolw			
	Magain 200 200 200 200 200 200 200 200 200 20		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					Chance
	5 4 6 8 3 4 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 (1) 0 (10 (10)) (1) 0 (10) (10) (10) (1) 0 (10) (10) (10) (10) 10) (10) (10) (10) (10) (10) (10) 10) (10) (10) (10) (10) (10) (10) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000 000000 000000 000000 000000 00000		0 00 000000000000000000000000000000000	
In [27]: In [28]:	#Correlation ar #For sample Covariance_gre=	GRE Score	TOEFL Score	-2.5 0.0 2.5 5.0 7.5 University Rating	hance of A	LOR	6 8 10 -2 CGPA	0 2 Research
In [30]:		fl= np.cov(d fl 0481 np.cov(data						
In [32]: Out[32]: In [33]:	Covariance_sope Covariance_sope 0.0956906212424 Covariance_lore Covariance_lore 0.0842964328657 Covariance_cgpa Covariance_cgpa 0.0753258460921	18494 = np.cov(da1 73148 a= np.cov(da	ta['LOR '],	data[' <mark>Chance</mark>	of Admit	'])[0][1]		
In [34]: Out[34]: In [35]: Out[35]: In [36]:	Covariance_r= r Covariance_r 0.0382821643286 #For population np.cov(data['GF 1.2892787200006 np.cov(data['TC	np.cov(data) 657324 n RE Score'], 0004 DEFL Score'	data[' <mark>Chanc</mark>	e of Admit '], bias= Tr	ue)[0][1]		
In [37]: Out[37]: In [38]: Out[38]: In [39]:	0.6786859200006 np.cov(data['Ur 0.1111616400006 np.cov(data['S0 0.0954992399999 np.cov(data['L0 0.0841278400006	DP'], data[DP'], data[DR'], data	'Chance of A	dmit '], bia	s= True)[0]	[1])][1]	
	0.0751751943999	esearch'], desearch'], desearc	data[' <mark>Chance</mark>	of Admit ']	, bias= Tru	e)[0][1]		
Out[40]: In [41]: Out[41]: In [42]: Out[42]:	#Correlation Conp.corrcoef(date) 0.8103506354632	9841	ity Rating'] data['Chance	, data['Chan	ce of Admi			
Out[40]: In [41]: Out[41]: In [42]: Out[42]: In [43]: Out[43]: In [44]: Out[44]: Out[44]: Out[45]:	#Correlation Conp.corrcoef(dat	5906 ta['SOP'], 0						
Out[40]: In [41]: Out[41]: In [42]: Out[42]: In [43]: Out[43]: In [44]: Out[44]: In [45]: Out[45]: In [46]: Out[46]: In [47]: Out[47]: In [48]: Out[48]: In [49]:	#Correlation Conp.corrcoef(data) 0.8103506354632 np.corrcoef(data) 0.7922276143056 np.corrcoef(data) 0.6901323687886 np.corrcoef(data) 0.6841365241316 np.corrcoef(data) 0.6453645135286 np.corrcoef(data) 0.8824125749045 np.corrcoef(data) 0.8824125749045 np.corrcoef(data) 0.5458710294711	5906 ta['SOP'], 0 5723 ta['LOR '], 9114 ta['CGPA'], 5737 ta['Research 1387	n'], data['C annot= True)	hance of Adm	it '])[0][1]		
Dut[40]: In [41]: Dut[41]: In [42]: In [42]: Dut[42]: In [43]: Dut[43]: In [44]: Dut[44]: In [45]: Dut[45]: In [46]: Dut[46]: In [47]: Dut[47]: In [48]: Dut[48]: In [49]:	#Correlation Conp.corrcoef(data	5906 ta['SOP'], 0 5723 ta['LOR '], 5737 ta['Research 1387 ta.corr(), 6 essubplots 1 0.83 0.64 4 0.83 1 0.65 1 4 0.61 0.64 0.73 370.52 0.54 0.61 74 0.83 0.81 0.71 530.56 0.47 0.43	annot= True) S.AxesSubplo 0.61 0.52 0.83 0.64 0.54 0.81 0.73 0.61 0.71 1 0.66 0.71 0.66 1 0.64 0.71 0.64 1	t at 0x7f1dd	it '])[0][a6dac18> 0 8 6 4	1]		
Dut[40]: In [41]: In [41]: Dut[41]: In [42]: In [43]: In [43]: In [44]: In [45]: In [46]: Dut[46]: In [47]: In [48]: Dut[48]: In [49]: Dut[49]:	#Correlation Conp.corrcoef(data o.8103506354632	5906 ta['SOP'], 0 ta['SOP'], 0 5723 ta['LOR '], 5737 ta['Research 1387 ta.corr(), 6 essubplots 1 0.83 0.64 4 0.83 1 0.65 1 1 0.83 0.64 4 0.83 1 0.65 1 4 0.61 0.64 0.73 370.52 0.54 0.61 74 0.83 0.81 0.71 530.56 0.47 0.43 ment using 3 nce of Admin	annot=True) S.AxesSubplo 0.61 0.52 0.83 0.64 0.54 0.81 0.73 0.61 0.71 1 0.66 0.71 0.66 1 0.64 0.71 0.64 1 0.41 0.37 0.5 0.68 0.65 0.88 0.69 0.65 0.88 0.70 0.64 0.54 0.71 0.64 1 0.71 0.64 1 0.71 0.64 1 0.71 0.64 1 0.71 0.64 1 0.71 0.64 1 0.71 0.64 1	t at 0x7f1dd t at 0x7f1dd 0.56 0.81 0.47 0.79 0.43 0.69 0.41 0.68 0.37 0.65 0.5 0.88 1 0.55 -0 F. 1 Personance of Adm t at 0x7f1dd -0 0.56 0.81 -0 0.47 0.79 0.43 0.69 -0 0.41 0.68 -0 0.5 0.88 1 0.55 -0 F. 1 Personance (IQR) e (0.25)	it '])[0][a6dac18> 0 8 6 4	1]		
Dut[40]: In [41]: Dut[41]: In [42]: In [43]: In [43]: In [44]: In [45]: In [45]: In [46]: Out[46]: In [47]: In [48]: Out[48]: In [49]: In [50]: In [51]: In [52]: In [53]:	#Correlation Conp. corrcoef (data on .8103506354632	1	annot=True) annot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=Innot=I	t at 0x7f1dd 10.56 0.81 0.47 0.79 0.43 0.69 0.41 0.68 0.37 0.65 0.5 0.88 1 0.55 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	it '])[0][a6dac18> 0 8 6 4 2 0 1.5 9.65 4.5 9.65 4.5 8.87 3.5 8.00 2.5 8.67	Research Chan 1 1 1	0.92 0.76 0.72 0.80	5*iqr)]
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