	TEAM ID: P Exploratory Da	ata Analysis:								
In [1]:	Required libraries.									
	import matplotlib.py import seaborn as an									
In [2]: In [3]:	df= pd.read_csv(*C:)	/Users/nprav/OneD	rive/Desktop/Re.	althcare_Data/t		vallable				
	case_id Hospital	L_code Hospital_type	_code City_Code_F	Hospital Hospital		Cooms Department Ward in Hospital 3 radiotherapy	_Type Ward_Facility	_Code Bed Grade Patientid City_C	Type of Severity Visite ode_Patient Admission of v Illness Pa 7.0 Emergency Extreme	with Age A atient
	1 2 2 3 3 4	2 10 26	e b	5 1 2	z x	2 radiotherapy 2 anesthesia 2 radiotherapy	S S	F 2.0 31397 E 2.0 31397 D 2.0 31397	7.0 Trauma Extrema 7.0 Trauma Extrema 7.0 Trauma Extrema	2 51- 60 2 51- 60 2 51- 60
	4 5 318433 318434	26	b	2	Y	2 radiotherapy	8 	D 2.0 31397	7.0 Trauma Extrame	60  41-
	318434 318435 318435 318436	24		1 4	×	2 anesthesia 3 gynecology	Q R	E 4.0 325 F 4.0 125235	8.0 Urgent Moderate 10.0 Emergency Minor	50 4 81- 90 3 71- 80
	318436 318437 318437 318438 318438 rows x 18 colum	11 19 ns	a a	7	Y	3 anesthesia 5 gyneodogy	Q Q	D 3.0 91081 C 2.0 21841	8.0 Trauma Minor  8.0 Emergency Minor	5 11- 20 2 11- 2 20
In [4]:	df.head()				Availab	ile				
	case_id Hospital_code		City_Code_Hos pits	al Hospital_region	_code Rooms Hospit	ra Department Ward_Type in	Ward_Facility_Code	Bed patientid City_Code_P	Illness Patient	Age Admissi
	2 3 1	2 00	c e	5 1 2	z x	2 radiotherapy 2 anesthesia 2 radiotherapy	8 8	F 2.0 31397 E 2.0 31397 D 2.0 31397	7.0 Trauma Extreme 2	51- 60 51- 60
		26	b	2	Y	2 radiotherapy	S	D 2.0 31397	7.0 Tsauma Extreme 2	51- 60 60
Out[5]:		_code Hospital_type				vailable Extra cooms Department Ward in Hospital			Type of Saverity Visite ode_Patient Admission of v Illness Pa	
	318433 318434 318434 318435 318435 318438	6 24 7	*	6 1 4	x x x	3 radiotherapy 2 anesthesia 3 gynecology	Q Q R	F 4.0 86409 E 4.0 325 F 4.0 125235	23.0 Emergency Moderate  8.0 Urgent Moderate  10.0 Emergency Minor	3 41- 50 4 81- 90 3 /1- 80
	318436 318437 318437 318438	11	b a	7	Y	3 anesthesia 5 gynecology	0	D 3.0 91081 C 2.0 21841	8.0 Trauma Minor 8.0 Emergency Minor	5 11- 20 2 11- 2 20
	df.info() <class #="" 'pandas.core.="" (total="" 318438="" column<="" columns="" data="" e="" rangeindex:="" td=""><td>frame.DataFrame' ntries, 0 to 318 18 columns):</td><td>Non-Null Co</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></class>	frame.DataFrame' ntries, 0 to 318 18 columns):	Non-Null Co							
	Came_id  Nospital_code  Rospital_type_c  City_Code_Rospi  Rospital_region  Available_Extra	code  tal  _code   Rooms in Hospita	318438 non- 318438 non- 318438 non- 318438 non- 318438 non- al 318438 non-	-null int64 -null object -null int64 -null object						
	6 Department 7 Ward_Type 8 Ward_Facility_C 9 Red Grade 10 patientid 11 City_Code_Patie 12 Type of Admissi	tode	318438 non- 318438 non- 318438 non- 318325 non- 318438 non- 313906 non- 318438 non-	-null float64 -null int64 -null float64						
	13 Severity of Ill 14 Visitors with P 15 Age 16 Admission_Depos	ness stient	318438 non- 318438 non- 318438 non- 318438 non-	-null object -null int64 -null object						
In [7]:	dtypes: float64(3), memory usage: 43.7+ df.dtypes case_id Rospital_code									
	case_id Hospital_code Hospital_type_code City_Code_Hospital Hospital_region_code Available Extra Ro Department Ward_Type Ward_Facility Code	ooms in Hospita	object							
	Ward_Type Ward_Facility_Code Red Grade patientid City_Code_Patient Type of Admission Severity of Illness Visitors with Patien	t	object float64 int64 float64 object object int64							
In [8]:	Age Admission_Deposit Stay dtype: object df.shape		int64 object float64 object							
Out[8]:	Before Null Va		ng:							
ut[22]: n [25]:	df.isnull().sum().su 4645 df.isnull()	in ()								
at[25]:	case_id Hospital	_code Hospital_type False	_code City_Code_F	Hospital Hospital_	region_code R	vailable Extra tooms Department Ward in Hospital False False	_Type Ward_Facility	Bed Code Grade patientid City_C False False False	IIINSS PAI	es with Age A tient
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st[26]:	count 318438.000000 31		8438.000000	3184	38.000000 318325	5.000000 318438.000000	313906.000000		38.000000	
	mean 159219.500000 std 91925.278847 min 1.000000 25% 79810.250000 50% 159219.500000	8.633755 1.000000 11.000000	4.771717 3.102535 1.000000 2.000000 5.000000		1.168171 0.000000 2.000000	2.825807 65747.579472 0.873146 37979.938440 1.000000 1.000000 2.000000 32847.000000 3.000000 65724.500000	4.745268 1.000000 4.000000	1.764061 108 0.000000 180 2.000000 418	80.740392 86.776254 00.000000 81.000000	
n [27]:	75% 238828.750000 max 318438.000000 df.isnull().sum()	26.000000	7.000000 13.000000		4.000000	3.000000 98470.000000 4.000000 131624.000000	8.000000 38.000000	4.000000 540	99.000000 98.000000	
ut[27]:	case_id Rospital_code Rospital_type_code City_Code_Rospital Rospital_region_code Available Evtra Rosp	s in Sosnital	0 0 0							
	Department Ward_Type Ward_Facility_Code Red Grade patientid City Code Patient		0 0 0 113 0							
	Type of Admission Severity of Illness Visitors with Patien Age Admission_Deposit Stay dtype: int64	t	0 0 0							
	dtype: int64 df.corr()									
		case_id	Hospital_code Cit	y_Code_Hospital -0.011352	Available Extra Roo	ms in Hospital Bed Grade		le_Patient Visitors with Patient Adr 0.065196 0.00130		
	Hospital City_Code_H Available Extra Rooms in H Bed	case_id 1.00000 al_code -0.043023 ospital -0.011352 lospital 0.042580 d Grade 0.013702	-0.043023 1.000000 0.128294 -0.059638 -0.013730	-0.011352 0.128294 1.000000 -0.045771 -0.049309	Available Extra Roo	0.042580 0.01370 -0.059638 -0.01377 -0.045771 -0.04930 1.000000 -0.11586 -0.115868 1.00000	2 -0.004150 39 0.002291 9 0.000750 8 0.000921 0 0.001845	0.065196 0.00130 -0.015530 -0.02850 -0.023988 0.01818 -0.009681 0.09675 -0.008105 0.08694	00 -0.045972 00 0.045446 44 -0.034455 4 -0.143739 6 0.073833	
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n (20): ut(20):	Hospita City, Code, H. Available Extra Rooms in M. Bec p City_Code) Visitors with Admission_C	case_id 0.00000 al_code 0.043023 ooptiel 0.043023 ooptiel 0.01352 d Grade 0.013702 astendid 0.004150 Patient 0.005196 Patient 0.005196 al_code 0.01302 al_code	0.043023 1.000000 0.128294 0.059638 0.013739 0.002291 0.015530 -0.028500	-0.011352 0.128294 1.000000 -0.045771 -0.049309 0.000750 -0.023988 0.018184	Available Extra Roo	0.042580 0.01370 -0.059638 -0.01377 -0.045771 -0.04930 1.000000 -0.11586 -0.115868 1.00000 0.000921 0.00184 -0.009681 -0.00610 0.096714 0.08894	2 -0.004150 19 0.002291 9 0.000750 8 0.000921 0 0.001645 5 1.000000 5 0.002092 5 0.006889	0.065196 0.00130 -0.015530 -0.02850 -0.023988 0.01816 -0.000881 0.00871 -0.000105 0.08898 1.000002 0.00888 1.000000 -0.1207 -0.012074 1.00000	00 -0.045972 0 0.045446 4 -0.034455 4 -0.143739 6 0.073833 -0.000877 4 0.025897 0 -0.150358	
n [28]: ut[28]: n [32]:	Hospita City_Code_H Available Extra Rooms in H Bee p City_Code_H Visitors with Admission_E	ase_id 1.000000 al_code 0.043023 al_code 0.043023 al_code 0.043023 al_code 0.043023 al_code 0.043020 al_code 0.043020 al_code 0.04302 al_code 0.004150 al_code 0.004150 al_code 0.004150 al_code 0.004150 al_code 0.004502 al_code	0.043023 1.000000 0.128294 0.059638 0.013739 0.002291 -0.015630 0.028500 0.045446	0.011352 0.128294 1.000000 0.045771 -0.049309 0.000750 -0.023988 0.018184 -0.034455	Available Extra Roo	0.042580 0.01370 -0.059638 -0.01377 -0.045771 -0.04930 1.000000 -0.11586 -0.115868 1.00000 0.000921 0.00184 -0.009681 -0.00610 0.096714 0.08894	2 -0.004150 19 0.002291 9 0.000750 8 0.000921 0 0.001645 5 1.000000 5 0.002092 5 0.006889	0.065196 0.00130 -0.015530 -0.02850 -0.023988 0.01816 -0.000881 0.00871 -0.000105 0.08898 1.000002 0.00888 1.000000 -0.1207 -0.012074 1.00000	00 -0.045972 0 0.045446 4 -0.034455 4 -0.143739 6 0.073833 -0.000877 4 0.025897 0 -0.150358	
n (28): ut[28]: n (32]: n (33): ut[33]:	Hospita  Oity, Code, J.  Available Extra Booms in the Bee  City, Code, J.  City, Code, J.  Visitors with Admission, G.  Mork With Null  df: ["and Grade"], fail	0,00000	0.043020 1.000000 0.120204 4.059838 4.015730 0.002291 4.015550 4.02550 0.045446	0.011352 0.128294 1.000000 0.045771 -0.049309 0.000750 -0.023988 0.018184 -0.034455	Available Extra Roo	0.042580 0.01370 -0.059638 -0.01377 -0.045771 -0.04930 1.000000 -0.11586 -0.115868 1.00000 0.000921 0.00184 -0.009681 -0.00610 0.096714 0.08894	2 -0.004150 19 0.002291 9 0.000750 8 0.000921 0 0.001645 5 1.000000 5 0.002092 5 0.006889	0.065196 0.00130 -0.015530 -0.02850 -0.023988 0.01816 -0.000881 0.00871 -0.000105 0.08898 1.000002 0.00888 1.000000 -0.1207 -0.012074 1.00000	00 -0.045972 0 0.045446 4 -0.034455 4 -0.143739 6 0.073833 -0.000877 4 0.025897 0 -0.150358	
n [28]: ut[28]: n [32]: n [33]: ut[33]: ut[34]:	Hospital  Oity, Code, J.  Available Extra Rooms in the Bee  P.  City, Code, J.  Visitors vin  Administra, C.  ### Code Code  ### Code  #	0,00000	O-040202 0.100204 0.000308 0.000308 0.000308 0.000308 0.000308 0.000500 0.015530 0.000500 0.0154448	0.011352 0.128294 1.000000 0.045771 -0.049309 0.000750 -0.023988 0.018184 -0.034455	Available Extra Roo	0.042580 0.01370 -0.059638 -0.01377 -0.045771 -0.04930 1.000000 -0.11586 -0.115868 1.00000 0.000921 0.00184 -0.009681 -0.00610 0.096714 0.08894	2 -0.004150 19 0.002291 9 0.000750 8 0.000921 0 0.001645 5 1.000000 5 0.002092 5 0.006889	0.065196 0.00130 -0.015530 -0.02850 -0.023988 0.01816 -0.000881 0.00871 -0.000105 0.08898 1.000002 0.00888 1.000000 -0.1207 -0.012074 1.00000	00 -0.045972 0 0.045446 4 -0.034455 4 -0.143739 6 0.073833 -0.000877 4 0.025897 0 -0.150358	
n [28]: n [32]: n [33]: n [33]: n [34]: ut[34]:	Heapin COp. Cook. J.  Available Ents Rooms in H But P City. Cook. J.  Visities with Adminston. I.  df.immil().mmil	Look   4,040   4,000	0.045023 1.000000 0.112994 0.050510 0.050510 0.000510 0.000500	0.011352 0.128294 1.000000 0.045771 -0.049309 0.000750 -0.023988 0.018184 -0.034455	Available Extra Roo	0.042580 0.01370 -0.059638 -0.01377 -0.045771 -0.04930 1.000000 -0.11586 -0.115868 1.00000 0.000921 0.00184 -0.009681 -0.00610 0.096714 0.08894	2 -0.004150 19 0.002291 9 0.000750 8 0.000921 0 0.001645 5 1.000000 5 0.002092 5 0.006889	0.065196 0.00130 -0.015530 -0.02850 -0.023988 0.01816 -0.000881 0.00871 -0.000105 0.08898 1.000002 0.00888 1.000000 -0.1207 -0.012074 1.00000	00 -0.045972 0 0.045446 4 -0.034455 4 -0.143739 6 0.073833 -0.000877 4 0.025897 0 -0.150358	
n (28): us(28): n (32): n (33): us(33): n (34): us(34):	Heapin COp. Cook. A  Available Ents Rooms in H  But  P  City. Cook. A  Visitors with Administor. (I  df.innil().num().m  df.innil().num().m  df.innil().num().m  df.innil().num().m  df.innil().num().m  df.innil().num().m  df.innil().num()  df.inni	Company   Comp	0.040203 1.000000 0.110094 0.000000 0.110094 0.000000 0.0000000 0.000000 0.000000 0.000000			0.042580 0.01370 -0.059638 -0.01377 -0.045771 -0.04930 1.000000 -0.11586 -0.115868 1.00000 0.000921 0.00184 -0.009681 -0.00610 0.096714 0.08894	2 -0.004150 19 0.002291 9 0.000750 8 0.000921 0 0.001645 5 1.000000 5 0.002092 5 0.006889	0.065196 0.00130 -0.015530 -0.02850 -0.023988 0.01816 -0.000881 0.00871 -0.000105 0.08898 1.000002 0.00888 1.000000 -0.1207 -0.012074 1.00000	00 -0.045972 0 0.045446 4 -0.034455 4 -0.143739 6 0.073833 -0.000877 4 0.025897 0 -0.150358	
n (28): ut(28): n (33): n (33): n (34): ut(34): n (35): n (35): ut(36):	Household City, Code, J.  Available Enter Rooms in His Bee  P.  City, Code, J.  Values vis.  Admination, I.  df.immill.sem().m.  df.immill.sem().m	1   Values	0.045023 1.100000 0.125294 0.05038 0.0125294 0.05038 0.002291 0.002291 0.005330 0.005530 0.005530 0.0055400 0.01554000 0.01554000 0.01554000 0.01554000 0.01554000 0.015540000 0.01554000000000000000000000000000000000			0.042580 0.01370 -0.059638 -0.01377 -0.045771 -0.04930 1.000000 -0.11586 -0.115868 1.00000 0.000921 0.00184 -0.009681 -0.00610 0.096714 0.08894	2 -0.004150 19 0.002291 9 0.000750 8 0.000921 0 0.001645 5 1.000000 5 0.002092 5 0.006889	0.065196 0.00130 -0.015530 -0.02850 -0.023988 0.01816 -0.000881 0.00871 -0.000105 0.08898 1.000002 0.00888 1.000000 -0.1207 -0.012074 1.00000	00 -0.045972 0 0.045446 4 -0.034455 4 -0.143739 6 0.073833 -0.000877 4 0.025897 0 -0.150358	
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n (28): n (32): n (33): ve(33): ve(33): ve(34): n (35): te(34):	Heaping COP, Code, A.  Available Extra Rooms in H Bee  P COP, Code, A.  Visitors with Administra, C.  of incl.      of	case_id 1000000 Look 1000000 Look 1000000 Look 1000000 Look 100000000000000000000000000000000000	0.043023 1.000000 0.122294 0.059233 0.012779 0.002291			0.042580 0.01370 -0.059638 -0.01377 -0.045771 -0.04930 1.000000 -0.11586 -0.115868 1.00000 0.000921 0.00184 -0.009681 -0.00610 0.096714 0.08894	2 -0.004150 19 0.002291 9 0.000750 8 0.000921 0 0.001645 5 1.000000 5 0.002092 5 0.006889	0.065196 0.00130 -0.015530 -0.02850 -0.023988 0.01816 -0.000881 0.00871 -0.000105 0.08898 1.000002 0.00888 1.000000 -0.1207 -0.012074 1.00000	00 -0.045972 0 0.045446 4 -0.034455 4 -0.143739 6 0.073833 -0.000877 4 0.025897 0 -0.150358	
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n (28): n (28): n (33): n (33): n (34): n (36): n (36): n (37):	House COOK, Code, N. A. A. Available Extra Rooms in H Bee Corp. Code, N. M. Bee Corp. Code, N. M. Bee Corp. Code, N. M. M. Bee Corp. Code, N. M.	Company   Comp	0.043023 1.000000 0.122294 0.059233 0.012779 0.002291			0.042580 0.01370 -0.059638 -0.01377 -0.045771 -0.04930 1.000000 -0.11586 -0.115868 1.00000 0.000921 0.00184 -0.009681 -0.00610 0.096714 0.08894	2 -0.004150 19 0.002291 9 0.000750 8 0.000921 0 0.001645 5 1.000000 5 0.002092 5 0.006889	0.065196 0.00130 -0.015530 -0.02850 -0.023988 0.01816 -0.000881 0.00871 -0.000105 0.08898 1.000002 0.00888 1.000000 -0.1207 -0.012074 1.00000	00 -0.045972 0 0.045446 4 -0.034455 4 -0.143739 6 0.073833 -0.000877 4 0.025897 0 -0.150358	
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