	RowNumber	CustomerId	Surname	CreditScore	Geography	Gender	Age	Tenure	Balance	NumOfProdu	ucts HasCrC	ard IsActiveMem	ber EstimatedSal	ary Exited
9995	9996	15606229	Obijiaku	771	France	Male	39		0.00				0 96270	0.64 0
9996	9997	15569892	Johnstone	516	France	Male	35	10	57369.61				1 101699	0.77 0
9997	9998	15584532	Liu	709	France	Female	36		0.00				1 4208	5.58 1
9998	9999	15682355	Sabbatini	772	Germany	Male	42	3	75075.31		2		0 92888	.52 1
9999	10000	15628319	Walker	792	France	Female	28	4	130142.79				0 38190	.78 0
	RowNumb	er Custon	merId Cred	ditScore	Age	Tenure		Bal	lance Num	OfProducts	HasCrCard	IsActiveMember	EstimatedSalary	Exite
coun	t 10000.000	00 1.000000	0e+04 1000	0.000000 100	000.00000	10000.000	000	10000.00	10000 10	000.000000	10000.00000	10000.000000	10000.000000	10000.000000
mear	5000.500	00 1.569094	le+07 65	0.528800	38.921800	5.012	800	76485.88	9288	1.530200	0.70550	0.515100	100090.239881	0.203700
std	2886.895	68 7.193619	e+04 9	6.653299	10.487806	2.892	174	62397.40	5202	0.581654	0.45584	0.499797	57510.492818	0.402769

11.580000 1.00000 1.556570e+07 350.000000 0.000000 1.000000 0.00000 0.000000 0.000000 18.000000 0.000000 32.000000 25% 2500.75000 1.562853e+07 584.000000 3.000000 0.000000 1.000000 0.00000 0.000000 51002.110000 0.000000 5.000000 97198.540000 **50%** 5000.50000 1.569074e+07 652.000000 37.000000 1.000000 1.00000 1.000000 100193.915000 0.000000 75% 7500.25000 1.575323e+07 718.000000 7.000000 127644.240000 2.000000 149388.247500 0.000000 1.000000 1.000000 max 10000.00000 1.581569e+07 850.000000 92.000000 10.000000 250898.090000 4.000000 1.00000 199992.480000

df.isnull()

	RowNumber	CustomerId	Surname	CreditScore	Geography	Gender	Age	Tenure	Balance	NumOfProducts	HasCrCard	IsActiveMember	EstimatedSalary	Exited
0	False	False	False	False	False	False	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False	False	False	False	False	False	False
9995	False	False	False	False	False	False	False	False	False	False	False	False	False	False
9996	False	False	False	False	False	False	False	False	False	False	False	False	False	False
9997	False	False	False	False	False	False	False	False	False	False	False	False	False	False
9998	False	False	False	False	False	False	False	False	False	False	False	False	False	False
9999	False	False	False	False	False	False	False	False	False	False	False	False	False	False

RowNumber Customerld Surname CreditScore 0 Geography Gender Age Tenure 0 Balance NumOfProducts 0 HasCrCard IsActiveMember 0 EstimatedSalary 0 Exited

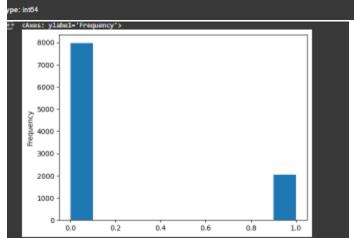
	CreditScore	Geography	Gender	Age	Tenure	Balance	NumOfProducts	HasCrCard	IsActiveMember	EstimatedSalary	Exited
0	619	France	Female	42	2	0.00	1			101348.88	
1	608	Spain	Female	41		83807.86	1	0	1	112542.58	0
2	502	France	Female	42	8	159660.80	3		0	113931.57	
3	699	France	Female	39		0.00	2	0	0	93826.63	0
4	850	Spain	Female	43	2	125510.82	1			79084.10	0

CreditScore	Age	Tenure	Balance	NumOfProducts	HasCrCard	IsActiveMember	EstimatedSalary	Exited	Geography_Germany	Geography_Spain	Gender_Male
619	42		0.00				101348.88		False	False	False
608	41		83807.86		0		112542.58	0	False	True	False
502	42	8	159660.80				113931.57		False	False	False
699	39		0.00	2	0	0	93826.63	0	False	False	False
850	43		125510.82				79084.10		False	True	False

['Exited'].value_counts() #Imbalanced Data

count

xited



CreditScore	Age	Tenure	Balance	NumOfProducts	HasCrCard	IsActiveMember	EstimatedSalary	Geography_Germany	Geography_Spain	Gender_Male		
850	81	5	0.000000	2		1	44827.470000	False	False	True		
350	39	0	109733.200000	2	0	0	123602.110000	True	False	True		
	40	0	111098.850000	1		1	172321.210000	False	False	False		
	51	10	0.000000	1	1	1	125823.790000	False	False	True		
	54		152677.480000	1		1	191973.490000	False	True	True		
384	46	6	409.855222	1	0	0	157315.717371	False	True	False		
386	43	6	0.000000	1	1	0	157180.999953	False	False	False		
	53		131955.070000	1		1	62514.650000	False	True	False		
387	53	1	153030.746479	1	0	1	191967.118711	False	True	True		
388	45	6	128806.802855	1		0	146435.798513	False	False	False		
15926 rows × 1	15926 rows × 1 columns											

