Data Manipulation

In [9]: data

ut[9]:		PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
	0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500
	1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833
	2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250
	3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000
	4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500
		•••	•••								
	886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.0000
	887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.0000
	888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23.4500
	889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.0000
	890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.7500
	891 r	ows × 12 colu	ımns								
	√										>

In [10]: data.head()

Out[10]:		Passengerld	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cŧ
	0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	1
	1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833	
	2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	1
	3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	С
	4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	1

In [11]: data.tail()

Out[11]:		PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin
	886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.00	NaN
	887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.00	B42
	888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23.45	NaN
	889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.00	C148
	890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.75	NaN

In [12]: data.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):

#	Column	Non-Null Count	Dtype
0	PassengerId	891 non-null	int64
1	Survived	891 non-null	int64
2	Pclass	891 non-null	int64
3	Name	891 non-null	object
4	Sex	891 non-null	object
5	Age	714 non-null	float64
6	SibSp	891 non-null	int64
7	Parch	891 non-null	int64
8	Ticket	891 non-null	object
9	Fare	891 non-null	float64
10	Cabin	204 non-null	object
11	Embarked	889 non-null	object
dtvn	مد، float64/2) int64(5) obj	oct(5)

dtypes: float64(2), int64(5), object(5)

memory usage: 83.7+ KB

In [13]: data.describe()

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	Passengerld	Survived	Pclass	Age	SibSp	Parch	Fare
count	891.000000	891.000000	891.000000	714.000000	891.000000	891.000000	891.000000
mean	446.000000	0.383838	2.308642	29.699118	0.523008	0.381594	32.204208
std	257.353842	0.486592	0.836071	14.526497	1.102743	0.806057	49.693429
min	1.000000	0.000000	1.000000	0.420000	0.000000	0.000000	0.000000
25%	223.500000	0.000000	2.000000	20.125000	0.000000	0.000000	7.910400
50%	446.000000	0.000000	3.000000	28.000000	0.000000	0.000000	14.454200
75%	668.500000	1.000000	3.000000	38.000000	1.000000	0.000000	31.000000
max	891.000000	1.000000	3.000000	80.000000	8.000000	6.000000	512.329200

In [14]: data.shape

Out[14]: (891, 12)

In [15]: data.size

Out[15]: 10692

In [16]: data.ndim

Out[16]: 2

In [17]: data.columns

In [18]: data.drop(labels="Age",axis=1)

Cabin	Fare	Ticket	Parch	SibSp	Sex	Name	Pclass	Survived	Passengerld		Out[18]:
NaN	7.2500	A/5 21171	0	1	male	Braund, Mr. Owen Harris	3	0	1	0	
C85	71.2833	PC 17599	0	1	female	Cumings, Mrs. John Bradley (Florence Briggs Th	1	1	2	1	
NaN	7.9250	STON/O2. 3101282	0	0	female	Heikkinen, Miss. Laina	3	1	3	2	
C123	53.1000	113803	0	1	female	Futrelle, Mrs. Jacques Heath (Lily May Peel)	1	1	4	3	
NaN	8.0500	373450	0	0	male	Allen, Mr. William Henry	3	0	5	4	
NaN	13.0000	211536	0	0	male	Montvila, Rev. Juozas	2	0	887	886	
B42	30.0000	112053	0	0	female	Graham, Miss. Margaret Edith	1	1	888	887	
NaN	23.4500	W./C. 6607	2	1	female	Johnston, Miss. Catherine Helen "Carrie"	3	0	889	888	
C148	30.0000	111369	0	0	male	Behr, Mr. Karl Howell	1	1	890	889	
NaN	7.7500	370376	0	0	male	Dooley, Mr. Patrick	3	0	891	890	

891 rows × 11 columns

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In [19]: data.drop(labels=2,axis=0)

Out[19]:		Passengerld	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cal
	0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	N
	1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833	С
	3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C1
	4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	N
	5	6	0	3	Moran, Mr. James	male	NaN	0	0	330877	8.4583	N
	886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.0000	N
	887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.0000	Е
	888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	fema l e	NaN	1	2	W./C. 6607	23.4500	N
	889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.0000	C1
	890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.7500	N
	890 r	ows × 12 colu	ımns									
	4											•
Tn [].												
In []:												