THE TITANIC

Overview

The table below shows the number of people on board when the titanic sank, the people who survived, their sex, ages, fare, siblings/ spouses aboard and children/parent aboard.

Survived	Pclass	Name	Sex	Age	Siblings/Spouses Aboard	Parents/Children Aboard	Fare
0	3	Mr. Owen Harris Braund	male	22	1	0	7.25
1	1	Mrs. John Bradley (Florence Briggs Thayer) Cumings	female	38	1	0	71.2833
1	3	Miss. Laina Heikkinen	female	26	0	0	7.925
1	1	Mrs. Jacques Heath (Lily May Peel) Futrelle	female	35	1	0	53.1
0	3	Mr. William Henry Allen	male	35	0	0	8.05
0	3	Mr. James Moran	male	27	0	0	8.4583
0	1	Mr. Timothy J McCarthy	male	54	0	0	51.8625
0	3	Master. Gosta Leonard Palsson	male	2	3	1	21.075
1	3	Mrs. Oscar W (Elisabeth Vilhelmina Berg) Johnson	female	27	0	2	11.1333
1	2	Mrs. Nicholas (Adele Achem) Nasser	female	14	1	0	30.0708
1	3	Miss. Marguerite Rut Sandstrom	female	4	1	1	16.7
1	1	Miss. Elizabeth Bonnell	female	58	0	0	26.55
0	3	Mr. William Henry Saundercock	male	20	0	0	8.05
0	3	Mr. Anders Johan Andersson	male	39	1	5	31.275
0	3	Miss. Hulda Amanda Adolfina Vestrom	female	14	0	0	7.8542
1	2	Mrs. (Mary D Kingcome) Hewlett	female	55	0	0	16
0	3	Master. Eugene Rice	male	2	4	1	29.125
1	2	Mr. Charles Eugene Williams	male	23	0	0	13
0	3	Mrs. Julius (Emelia Maria Vandemoortele) Vander Planke	female	31	1	0	18
1	3	Mrs. Fatima Masselmani	female	22	0	0	7.225
0	2	Mr. Joseph J Fynney	male	35	0	0	26
1	2	Mr. Lawrence Beesley	male	34	0	0	13
1	3	Miss. Anna McGowan	female	15	0	0	8.0292
1	1	Mr. William Thompson Sloper	male	28	0	0	35.5
0	3	Miss. Torborg Danira Palsson	female	8	3	1	21.075
1	3	Mrs. Carl Oscar (Selma Augusta Emilia Johansson) Asplund	female	38	1	5	31.3875

The total number of people onboard is 887. This is shown in the picture below

```
print(data.info())
[ ]
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 887 entries, 0 to 886
Data columns (total 8 columns):
 #   Column                   Non-Null Count  Dtype
---  ------                   --------------  -----
 0   Survived                 887 non-null    int64
 1   Pclass                   887 non-null    int64
 2   Name                     887 non-null    object
 3   Sex                      887 non-null    object
 4   Age                      887 non-null    float64
 5   Siblings/Spouses Aboard  887 non-null    int64
 6   Parents/Children Aboard  887 non-null    int64
 7   Fare                     887 non-null    float64
dtypes: float64(2), int64(4), object(2)
memory usage: 55.6+ KB
None
```
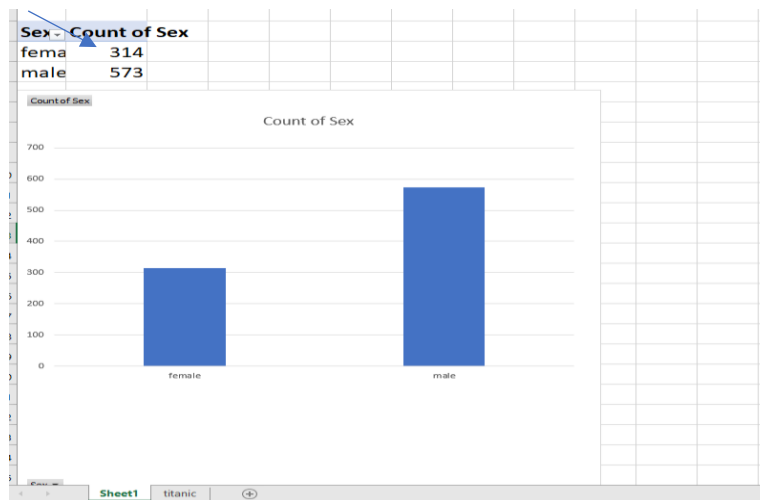.

To start with, the first column shows the number of people who survived. Using the pivot table ,I have discovered that 342 people survived. 233 are female and 109 are male.

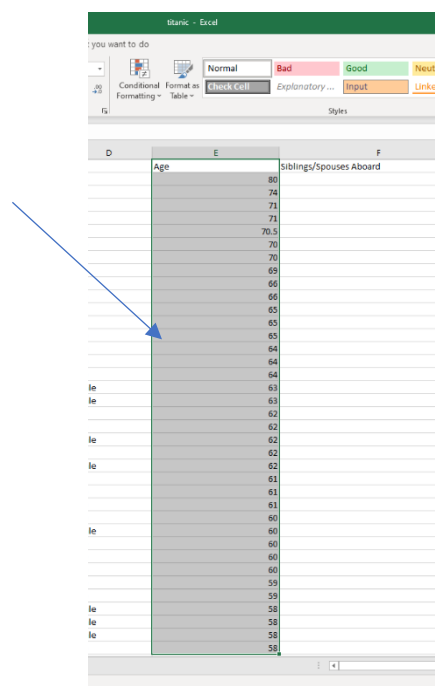| Row Labels	Sum of Survived
female	233
male	109
(blank)	
Grand Total	342

Secondly, in the second column is the Pclass. The Pclass simply shows the classes of the people onboard in order to show the level of luxuries they are severed with. There are three classes in the ship 1st, 2nd and 3rd classes. I have also seen that 488 people used the 3rd class therefore more people used the 3rd class.

Also, regarding the sex of the people onboard we had a total 573 men compared to 314 this means that men onboard were more than the women.

Then, regarding the age of people on board we have the age range to be 80-1 years old. The oldest on the ship was 80yrs old whiles 1yr old was the youngest on the ship.

Furthermore, taking a look at the siblings/spouses column, the highest amount of siblings and spouses is 8 brought by one person and the lowest is 1.

Siblings/Spouses Aboard	Parents/Children Aboard	Fare
21	8	2
20	8	2
18	8	2
17	8	2
14	8	2
8	8	2
5	8	2
16	5	2
14	5	2
11	5	2
9	5	2
1	5	2
17	4	2
16	4	1
14	4	1
11	4	2
9	4	2
9	4	2
8	4	1
7	4	1
7	4	1
6	4	2
5	4	2
4	4	1
4	4	2
3	4	2
2	4	1
2	4	2
2	4	1
1	4	1
33	3	0
30	3	0
24	3	2
23	3	2
19	3	2
12	3	1
10	3	2

In the next column, we have the parents and siblings aboard the ship. The highest number of parents and children onboard is 6 and the lowest is 1.

ge	Siblings/Spouses Ab	Parents/Children Aboard	Fare
43	1		6
39	1		5
39	1		5
38	1		5
41	0		5
39	0		5
64	1		4
45	1		4
40	1		4
29	0		4
24	2		3
54	1		3
48	1		3
16	1		3
24	0		3
21	8		2
20	8		2
18	8		2
17	8		2
14	8		2
8	8		2
5	8		2
16	5		2
14	5		2
11	5		2
9	5		2
1	5		2
17	4		2
11	4		2
9	4		2
9	4		2
6	4		2
5	4		2
4	4		2
3	4		2
2	4		2

The last and final column shows the fare that each individual paid. The highest fare was 512.3292 and the lowest was 4.0125.

	Survived	Pclass	Name	Sex	Age	Siblings/Spouses Ab	Parents/Children Aboard	Fare
1	Survived	Pclass	Name	Sex	Age	Siblings/Spouses Ab	Parents/Children Aboard	Fare
2	1	1	Mr. Thom	male	36	0	1	512.3292
3	1	3	Miss. Ann	female	35	0	0	512.3292
4	1	1	Mr. Gusta	male	35	0	0	512.3292
5	0	3	Mr. Mark I	male	64	1	4	263
6	1	3	Miss. Alic	female	24	3	2	263
7	1	3	Miss. Mab	female	23	3	2	263
8	0	3	Mr. Charle	male	19	3	2	263
9	1	1	Miss. Susa	female	21	2	2	262.375
10	1	3	Miss. Emil	female	18	2	2	262.375
11	1	3	Mrs. Jame	female	50	0	1	247.5208
12	0	3	Mr. Quigg	male	24	0	1	247.5208
13	1	1	Mrs. John	female	18	1	0	227.525
14	0	2	Mr. Victor	male	45	0	0	227.525
15	1	3	Miss. Rosa	female	42	0	0	227.525
16	1	1	Miss. Caro	female	38	0	0	227.525
17	0	2	Mr. John F	male	49	0	0	221.7792
18	0	3	Mr. Harry	male	27	0	2	211.5
19	1	1	Mrs. Edwa	female	43	0	1	211.3375
20	1	1	Miss. Geo	female	15	0	1	211.3375
21	1	1	Miss. Elisa	female	29	0	0	211.3375
22	1	3	Miss. Mar	female	31	0	2	164.8667
23	1	1	Mrs. Geor	female	45	1	1	164.8667
24	1	3	Mrs. Willi	female	58	0	1	153.4625
25	0	3	Mr. Georg	male	38	0	1	153.4625
26	1	2	Miss. Eliza	female	40	0	0	153.4625
27	0	2	Mrs. Huds	female	25	1	2	151.55
28	0	3	Miss. Hele	female	2	1	2	151.55
29	1	3	Master. Hi	male	0.92	1	2	151.55
30	1	1	Miss. Alic	female	22	0	0	151.55
31	1	3	Mrs. Willi	female	48	1	0	146.5208
32	1	3	Miss. Elise	female	58	0	0	146.5208
33	1	3	Miss. Mari	female	36	0	0	135.6333
34	1	3	Miss. Ame	female	35	0	0	135.6333
35	0	3	Mr. Sante	male	22	0	0	135.6333
36	1	3	Mrs. Fredr	female	40	1	1	134.5
37	1	3	Miss. Eliza	female	41	0	0	134.5
38	1	2	Dr. Henry	male	50	2	0	133.65