```
In [62]:
```

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline

Filename ='/users/ambilurama/Downloads/Nano/data analysis/survival - Sheetl.csv'

survival_df = pd.read_csv(Filename ,index_col='PassengerId' )
# using Passengerid as the index
```

In [63]:

survival_df.head()

Out[63]:

		Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
I	PassengerId									
	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500
4 4	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833
;	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250
•	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

```
In [64]:
survival_df.groupby('Survived').groups
Out[64]:
{0: [1,
  5,
  6,
  7,
  8,
  13,
  14,
  15,
  17,
  19,
  21,
  25,
  27,
  28,
  30,
  31,
  34,
  35,
In [65]:
survival_df.groupby('Survived').size()
Out[65]:
Survived
0
     549
     342
dtype: int64
In [66]:
survival_df.groupby('Sex').size()
Out[66]:
Sex
female
           314
male
           577
dtype: int64
```

```
In [ ]:
```

In [67]:

survival_df.groupby(['Survived','Sex']).size()

Out[67]:

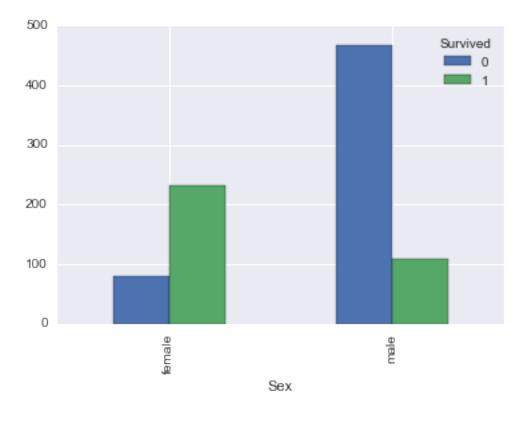
Sex	female	male
Survived		
0	81	468
1	233	109

In [68]:

survival_df.groupby(['Sex','Survived']).size().unstack().plot.bar()

Out[68]:

<matplotlib.axes._subplots.AxesSubplot at 0x11d522290>



```
In [69]:
survival df.groupby(['Survived','Name']).groups
Out[69]:
{(0, 'Abbing, Mr. Anthony'): [846],
 (0, 'Abbott, Mr. Rossmore Edward'): [747],
 (0, 'Abelson, Mr. Samuel'): [309],
 (0, 'Adahl, Mr. Mauritz Nils Martin'): [366],
 (0, 'Adams, Mr. John'): [402],
 (0, 'Ahlin, Mrs. Johan (Johanna Persdotter Larsson)'): [41],
 (0, 'Alexander, Mr. William'): [811],
 (0, 'Alhomaki, Mr. Ilmari Rudolf'): [841],
 (0, 'Ali, Mr. Ahmed'): [211],
 (0, 'Ali, Mr. William'): [785],
 (0, 'Allen, Mr. William Henry'): [5],
 (0, 'Allison, Miss. Helen Loraine'): [298],
 (0, 'Allison, Mrs. Hudson J C (Bessie Waldo Daniels)'): [499],
 (0, 'Allum, Mr. Owen George'): [835],
 (0, 'Andersson, Master. Sigvard Harald Elias'): [851],
 (0, 'Andersson, Miss. Ebba Iris Alfrida'): [814],
 (0, 'Andersson, Miss. Ellis Anna Maria'): [120],
 (0. 'Andersson, Miss. Ingeborg Constanzia'): [542],
In [70]:
survival df.groupby(['Survived','Age']).groups
Out[70]:
\{(0, 7.0): [51, 279],
 (0, 20.0): [13, 92, 114, 132, 379, 405, 442, 641, 683, 726, 841, 877]
 (0, 23.5): [297],
 (0, nan): [6],
 (0, nan): [681],
 (0, 10.0): [420, 820],
 (0, nan): [215],
 (0, 17.0): [115, 164, 434, 501, 533, 722, 845],
 (0, 20.5): [228],
 (0, 28.5): [58, 736],
 (0, 61.0): [171, 327, 626],
 (0, nan): [503],
 (0, nan): [186],
 (0, 32.0): [71, 207, 383, 520, 637, 658, 666, 770, 891],
 (0, nan): [816],
 (0, nan): [869],
```

(0, 70.0): [673, 746],

```
Out[71]:
Survived
                                          1
                                          2
Pclass
             Williams, Mr. Charles Eugene
Name
Sex
                                       male
Age
                                        NaN
                                          0
SibSp
Parch
                                          0
                                     244373
Ticket
                                         13
Fare
                                        NaN
Cabin
Embarked
                                          S
Name: 18, dtype: object
In [72]:
survival_df.loc[156]
Out[72]:
Survived
                                         0
Pclass
                                         1
Name
             Williams, Mr. Charles Duane
Sex
                                      male
                                        51
Age
SibSp
                                         0
Parch
                                         1
                                 PC 17597
Ticket
                                   61.3792
Fare
Cabin
                                       NaN
                                         C
Embarked
Name: 156, dtype: object
In [73]:
survival df.groupby('Survived').get group(0)
Out[73]:
```

Sex

male

male

Braund, Mr.

Owen Harris

William Henry

Allen, Mr.

Age

22.0 1

35.0 0

SibSp | Parch | Ticket

A/5 21171

373450

0

0

Fa

7.2

3.8

Survived | Pclass | Name

3

3

PassengerId

1

5

0

0

In [71]:

survival_df.loc[18]

6	0	3	Moran, Mr. James	male	NaN	0	0	330877	8.4
7	0	1	McCarthy, Mr. Timothy J	male	54.0	0	0	17463	51
8	0	3	Palsson, Master. Gosta Leonard	male	2.0	3	1	349909	21
13	0	3	Saundercock, Mr. William Henry	male	20.0	0	0	A/5. 2151	8.0
14	0	3	Andersson, Mr. Anders Johan	male	39.0	1	5	347082	31
15	0	3	Vestrom, Miss. Hulda Amanda Adolfina	female	14.0	0	0	350406	7.8
17	0	3	Rice, Master. Eugene	male	2.0	4	1	382652	29
19	0	3	Vander Planke, Mrs. Julius (Emelia Maria Vande	female	31.0	1	0	345763	18
21	0	2	Fynney, Mr. Joseph J	male	35.0	0	0	239865	26
25	0	3	Palsson, Miss. Torborg Danira	female	8.0	3	1	349909	21
27	0	3	Emir, Mr. Farred Chehab	male	NaN	0	0	2631	7.2
28	0	1	Fortune, Mr. Charles Alexander	male	19.0	3	2	19950	26
30	0	3	Todoroff, Mr. Lalio	male	NaN	0	0	349216	7.8
31	0	1	Uruchurtu, Don. Manuel	male	40.0	0	0	PC 17601	27

				Е						
3	4	0	2	Wheadon, Mr. Edward H	male	66.0	0	0	C.A. 24579	10
3	5	0	1	Meyer, Mr. Edgar Joseph	male	28.0	1	0	PC 17604	82
3	6	0	1	Holverson, Mr. Alexander Oskar	male	42.0	1	0	113789	52
3	8	0	3	Cann, Mr. Ernest Charles	male	21.0	0	0	A./5. 2152	8.0
3	9	0	3	Vander Planke, Miss. Augusta Maria	female	18.0	2	0	345764	18
4	1	0	3	Ahlin, Mrs. Johan (Johanna Persdotter Larsson)	female	40.0	1	0	7546	9.4
4	2	0	2	Turpin, Mrs. William John Robert (Dorothy Ann	female	27.0	1	0	11668	21
4	3	0	3	Kraeff, Mr. Theodor	male	NaN	0	0	349253	7.8
4	6	0	3	Rogers, Mr. William John	male	NaN	0	0	S.C./A.4. 23567	8.0
4	7	0	3	Lennon, Mr. Denis	male	NaN	1	0	370371	15
4	9	0	3	Samaan, Mr. Youssef	male	NaN	2	0	2662	21
5	0	0	3	Arnold- Franchi, Mrs. Josef (Josefine Franchi)	female	18.0	1	0	349237	17
				Panula,						

51	0	3	Master. Juha Niilo	male	7.0	4	1	3101295	39
52	0	3	Nosworthy, Mr. Richard Cater	male	21.0	0	0	A/4. 39886	7.8
•••									
845	0	3	Culumovic, Mr. Jeso	male	17.0	0	0	315090	8.6
846	0	3	Abbing, Mr. Anthony	male	42.0	0	0	C.A. 5547	7.5
847	0	3	Sage, Mr. Douglas Bullen	male	NaN	8	2	CA. 2343	69
848	0	3	Markoff, Mr. Marin	male	35.0	0	0	349213	7.8
849	0	2	Harper, Rev. John	male	28.0	0	1	248727	33
851	0	3	Andersson, Master. Sigvard Harald Elias	male	4.0	4	2	347082	31
852	0	3	Svensson, Mr. Johan	male	74.0	0	0	347060	7.7
853	0	3	Boulos, Miss. Nourelain	female	9.0	1	1	2678	15
855	0	2	Carter, Mrs. Ernest Courtenay (Lilian Hughes)	female	44.0	1	0	244252	26
860	0	3	Razi, Mr. Raihed	male	NaN	0	0	2629	7.2
861	0	3	Hansen, Mr. Claus Peter	male	41.0	2	0	350026	14
862	0	2	Giles, Mr. Frederick Edward	male	21.0	1	0	28134	11
864	0	3	Sage, Miss. Dorothy Edith	female	NaN	8	2	CA. 2343	69

				"Dolly"						
865	5	0	2	Gill, Mr. John William	male	24.0	0	0	233866	13
868	8	0	1	Roebling, Mr. Washington Augustus II	male	31.0	0	0	PC 17590	50
869	9	0	3	van Melkebeke, Mr. Philemon	male	NaN	0	0	345777	9.5
871	1	0	3	Balkic, Mr. Cerin	male	26.0	0	0	349248	7.8
873	3	0	1	Carlsson, Mr. Frans Olof	male	33.0	0	0	695	5.0
874	4	0	3	Vander Cruyssen, Mr. Victor	male	47.0	0	0	345765	9.0
877	7	0	3	Gustafsson, Mr. Alfred Ossian	male	20.0	0	0	7534	9.8
878	8	0	3	Petroff, Mr. Nedelio	male	19.0	0	0	349212	7.8
879	9	0	3	Laleff, Mr. Kristo	male	NaN	0	0	349217	7.8
882	2	0	3	Markun, Mr. Johann	male	33.0	0	0	349257	7.8
883	3	0	3	Dahlberg, Miss. Gerda Ulrika	female	22.0	0	0	7552	10
884	4	0	2	Banfield, Mr. Frederick James	male	28.0	0	0	C.A./SOTON 34068	10
885	5	0	3	Sutehall, Mr. Henry Jr	male	25.0	0	0	SOTON/OQ 392076	7.0
886	6	0	3	Rice, Mrs. William (Margaret Norton)	female	39.0	0	5	382652	29
				Montvila,						

887	0	2	Rev. Juozas	male	27.0	0	0	211536	13
889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23
891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.7

549 rows × 11 columns

In [74]:

```
unsurvived_df=survival_df.groupby('Survived').get_group(0)
```

In [75]:

```
survival_df.groupby('Survived').get_group(1)
```

Out[75]:

	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Е
PassengerId											
2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.00	1	0	PC 17599	71.2833	C85	С
3	1	3	Heikkinen, Miss. Laina	female	26.00	0	0	STON/O2. 3101282	7.9250	NaN	S
4	1	1	Futrelle, Mrs. Jacques Heath (Lily	female	35.00	1	0	113803	53.1000	C123	S

```
In [76]:
```

```
survival_df.groupby('Survived').get_group(1)['Name']
```

Out[76]:

PassengerId

```
2 Cumings, Mrs. John Bradley (Florence Briggs Th...
```

3 Heikkinen, Miss. Laina

4 Futrelle, Mrs. Jacques Heath (Lily May Peel)

```
Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
10
                     Nasser, Mrs. Nicholas (Adele Achem)
                          Sandstrom, Miss. Marguerite Rut
11
                                 Bonnell, Miss. Elizabeth
12
16
                        Hewlett, Mrs. (Mary D Kingcome)
18
                             Williams, Mr. Charles Eugene
20
                                  Masselmani, Mrs. Fatima
22
                                    Beesley, Mr. Lawrence
23
                              McGowan, Miss. Anna "Annie"
24
                             Sloper, Mr. William Thompson
      Asplund, Mrs. Carl Oscar (Selma Augusta Emilia...
26
29
                            O'Dwyer, Miss. Ellen "Nellie"
          Spencer, Mrs. William Augustus (Marie Eugenie)
32
33
                                 Glynn, Miss. Mary Agatha
37
                                         Mamee, Mr. Hanna
40
                              Nicola-Yarred, Miss. Jamila
                Laroche, Miss. Simonne Marie Anne Andree
44
45
                            Devaney, Miss. Margaret Delia
                                O'Driscoll, Miss. Bridget
48
                Harper, Mrs. Henry Sleeper (Myna Haxtun)
53
54
       Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkin...
56
                                        Woolner, Mr. Hugh
57
                                        Rugg, Miss. Emily
59
                             West, Miss. Constance Mirium
62
                                      Icard, Miss. Amelie
66
                                 Moubarek, Master. Gerios
                             Nye, Mrs. (Elizabeth Ramell)
67
810
          Chambers, Mrs. Norman Campbell (Bertha Griggs)
821
       Hays, Mrs. Charles Melville (Clara Jennings Gr...
822
                                        Lulic, Mr. Nikola
824
                                       Moor, Mrs. (Beila)
828
                                    Mallet, Master. Andre
829
                             McCormack, Mr. Thomas Joseph
830
               Stone, Mrs. George Nelson (Martha Evelyn)
831
                 Yasbeck, Mrs. Antoni (Selini Alexander)
832
                         Richards, Master. George Sibley
836
                              Compton, Miss. Sara Rebecca
839
                                          Chip, Mr. Chang
840
                                     Marechal, Mr. Pierre
843
                                  Serepeca, Miss. Augusta
850
            Goldenberg, Mrs. Samuel L (Edwiga Grabowska)
854
                                Lines, Miss. Mary Conover
856
                               Aks, Mrs. Sam (Leah Rosen)
857
              Wick, Mrs. George Dennick (Mary Hitchcock)
858
                                   Daly, Mr. Peter Denis
859
                   Baclini, Mrs. Solomon (Latifa Qurban)
       Swift, Mrs. Frederick Joel (Margaret Welles Ba...
863
866
                                 Bystrom, Mrs. (Karolina)
867
                             Duran y More, Miss. Asuncion
870
                          Johnson, Master. Harold Theodor
        Beckwith, Mrs. Richard Leonard (Sallie Monypeny)
872
875
                   Abelson, Mrs. Samuel (Hannah Wizosky)
```

9

```
Najib, Miss. Adele Kiamie "Jane"
876
           Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)
880
            Shelley, Mrs. William (Imanita Parrish Hall)
881
                             Graham, Miss. Margaret Edith
888
                                     Behr, Mr. Karl Howell
890
Name: Name, dtype: object
In [ ]:
In [77]:
survival_df.groupby('Parch').size()
Out[77]:
Parch
0
     678
1
     118
2
      80
3
       5
4
       4
       5
5
6
       1
dtype: int64
In [ ]:
```

```
In [78]:
```

survival df.groupby('Survived').get group(1)

Out[78]:

	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Е
PassengerId											
2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.00	1	0	PC 17599	71.2833	C85	С
3	1	3	Heikkinen, Miss. Laina	female	26.00	0	0	STON/O2. 3101282	7.9250	NaN	S
4	1	1	Futrelle, Mrs. Jacques Heath (Lily	female	35.00	1	0	113803	53.1000	C123	S

In [79]:

survival_df.groupby('Parch').get_group(2)['Name']

Out[79]:

```
PassengerId
```

```
Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
28
                          Fortune, Mr. Charles Alexander
                Laroche, Miss. Simonne Marie Anne Andree
44
59
                            West, Miss. Constance Mirium
                      Goodwin, Master. William Frederick
60
64
                                    Skoog, Master. Harald
69
                         Andersson, Miss. Erna Alexandra
                               Goodwin, Miss. Lillian Amy
72
79
                           Caldwell, Master. Alden Gates
                               Fortune, Miss. Mabel Helen
89
94
                                  Dean, Mr. Bertram Frank
120
                       Andersson, Miss. Ellis Anna Maria
                            Newsom, Miss. Helen Monypeny
137
141
                            Boulos, Mrs. Joseph (Sultana)
                        Ford, Miss. Robina Maggie "Ruby"
148
149
                Navratil, Mr. Michel ("Louis M Hoffman")
154
                         van Billiard, Mr. Austin Blyler
160
                               Sage, Master. Thomas Henry
166
         Goldsmith, Master. Frank John William "Frankie"
                             Sage, Miss. Constance Gladys
181
183
                   Asplund, Master. Clarence Gustaf Hugo
                     Kink-Heilmann, Miss. Luise Gretchen
185
```

234	Asplund, Miss. Lillian Gertrud
234	Collyer, Miss. Marjorie "Lottie"
238	Hamalainen, Mrs. William (Anna)
255	Rosblom, Mrs. Viktor (Helena Wilhelmina)
256	Touma, Mrs. Darwis (Hanne Youssef Razi)
262	Asplund, Master. Edvin Rojj Felix
298	Allison, Miss. Helen Loraine
200	Milison, Miss. neich Bolume
534	Peter, Mrs. Catherine (Catherine Rizk)
536	Hart, Miss. Eva Miriam
540	Frolicher, Miss. Hedwig Margaritha
541	Crosby, Miss. Harriet R
542	Andersson, Miss. Ingeborg Constanzia
543	Andersson, Miss. Sigrid Elisabeth
551	Thayer, Mr. John Borland Jr
586	Taussig, Miss. Ruth
594	Bourke, Miss. Mary
609	Laroche, Mrs. Joseph (Juliette Marie Louise La
616	Herman, Miss. Alice
635	Skoog, Miss. Mabel
643	Skoog, Miss. Margit Elizabeth
660	Newell, Mr. Arthur Webster
684	Goodwin, Mr. Charles Edward
686	Laroche, Mr. Joseph Philippe Lemercier
743	Ryerson, Miss. Susan Parker "Suzette"
755	Herman, Mrs. Samuel (Jane Laver)
764	Carter, Mrs. William Ernest (Lucile Polk)
784	Johnston, Mr. Andrew G
789	Dean, Master. Bertram Vere
793	Sage, Miss. Stella Anna
803	Carter, Master. William Thornton II
814	Andersson, Miss. Ebba Iris Alfrida
820	Skoog, Master. Karl Thorsten
828	Mallet, Master. Andre
847	Sage, Mr. Douglas Bullen
851	Andersson, Master. Sigvard Harald Elias
864	Sage, Miss. Dorothy Edith "Dolly"
889	Johnston, Miss. Catherine Helen "Carrie"
Name:	Name, dtype: object

Sage, Mr. Frederick

202

```
survival_df.groupby('Parch').size()
Out[80]:
Parch
0
     678
1
     118
2
      80
3
        5
4
        4
5
        5
        1
dtype: int64
In [81]:
Alive_df=pd.DataFrame.from_dict(survival_df.groupby('Survived').get_group(1))
print Alive df
              Survived
                         Pclass
PassengerId
2
                               1
                      1
3
                      1
                               3
4
                               1
                      1
9
                               3
                      1
                               2
10
                      1
                               3
11
                      1
12
                               1
                      1
                               2
16
                      1
                               2
18
                      1
20
                               3
                      1
22
                      1
                               2
23
                               3
                      1
24
                      1
                               1
                               3
26
                      1
29
                      1
                               3
32
                               1
                      1
33
                      1
                               3
In [82]:
people_Alive_df=pd.DataFrame.from_dict(survival_df.groupby('Survived').get_group(1)
In [83]:
people_Alive_df
Out[83]:
```

In [80]:

Name

PassengerId	
2	Cumings, Mrs. John Bradley (Florence Briggs Th
3	Heikkinen, Miss. Laina
4	Futrelle, Mrs. Jacques Heath (Lily May Peel)
9	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
10	Nasser, Mrs. Nicholas (Adele Achem)
11	Sandstrom, Miss. Marguerite Rut
12	Bonnell, Miss. Elizabeth
16	Hewlett, Mrs. (Mary D Kingcome)
18	Williams, Mr. Charles Eugene
20	Masselmani, Mrs. Fatima
22	Beesley, Mr. Lawrence
23	McGowan, Miss. Anna "Annie"
24	Sloper, Mr. William Thompson
26	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia
29	O'Dwyer, Miss. Ellen "Nellie"
32	Spencer, Mrs. William Augustus (Marie Eugenie)
33	Glynn, Miss. Mary Agatha
37	Mamee, Mr. Hanna
40	Nicola-Yarred, Miss. Jamila
44	Laroche, Miss. Simonne Marie Anne Andree
45	Devaney, Miss. Margaret Delia
48	O'Driscoll, Miss. Bridget
53	Harper, Mrs. Henry Sleeper (Myna Haxtun)
54	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkin
56	Woolner, Mr. Hugh
57	Rugg, Miss. Emily
59	West, Miss. Constance Mirium
62	Icard, Miss. Amelie
66	Moubarek, Master. Gerios
67	Nye, Mrs. (Elizabeth Ramell)

810	Chambers, Mrs. Norman Campbell (Bertha Griggs)
821	Hays, Mrs. Charles Melville (Clara Jennings Gr
822	Lulic, Mr. Nikola
824	Moor, Mrs. (Beila)
828	Mallet, Master. Andre
829	McCormack, Mr. Thomas Joseph
830	Stone, Mrs. George Nelson (Martha Evelyn)
831	Yasbeck, Mrs. Antoni (Selini Alexander)
832	Richards, Master. George Sibley
836	Compton, Miss. Sara Rebecca
839	Chip, Mr. Chang
840	Marechal, Mr. Pierre
843	Serepeca, Miss. Augusta
850	Goldenberg, Mrs. Samuel L (Edwiga Grabowska)
854	Lines, Miss. Mary Conover
856	Aks, Mrs. Sam (Leah Rosen)
857	Wick, Mrs. George Dennick (Mary Hitchcock)
858	Daly, Mr. Peter Denis
859	Baclini, Mrs. Solomon (Latifa Qurban)
863	Swift, Mrs. Frederick Joel (Margaret Welles Ba
866	Bystrom, Mrs. (Karolina)
867	Duran y More, Miss. Asuncion
870	Johnson, Master. Harold Theodor
872	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)
875	Abelson, Mrs. Samuel (Hannah Wizosky)
876	Najib, Miss. Adele Kiamie "Jane"
880	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)
881	Shelley, Mrs. William (Imanita Parrish Hall)
888	Graham, Miss. Margaret Edith
890	Behr, Mr. Karl Howell

```
342 \text{ rows} \times 1 \text{ columns}
In [ ]:
In [84]:
def split_name(data):
    full_name=data.split(" ")
    last name=full name[0]
    salutation=full name[1]
    first_name_1=full_name[2]
    if len(full name)==3:
        first name 2= ' '
    else:
        first name 2=full name[3]
    return (last_name, salutation, first_name_1, first_name_2)
In [ ]:
In [85]:
print split_name("Lines Miss Mary Conover")
('Lines', 'Miss', 'Mary', 'Conover')
In [ ]:
In [86]:
def clear_name(data):
    return (data['Name'].str.translate(None, "(,)."))
In [87]:
clear_name(people_Alive_df)
Out[87]:
PassengerId
2
         Cumings Mrs John Bradley Florence Briggs Thayer
3
                                       Heikkinen Miss Laina
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Johnson Mrs Oscar W Elisabeth Vilhelmina Berg Nasser Mrs Nicholas Adele Achem Sandstrom Miss Marguerite Rut Bonnell Miss Elizabeth Hewlett Mrs Mary D Kingcome Williams Mr Charles Eugene Masselmani Mrs Fatima Beesley Mr Lawrence McGowan Miss Anna "Annie" Sloper Mr William Thompson Msplund Mrs Carl Oscar Selma Augusta Emilia Jo O'Dwyer Miss Ellen "Nellie" Spencer Mrs William Augustus Marie Eugenie Glynn Miss Mary Agatha Mamee Mr Hanna O'Driscoll Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia O'Driscoll Miss Bridget Harper Mrs Henry Sleeper Myna Haxtun Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre Maccormack Mr Thomas Joseph Stone Mrs George Nelson Martha Evelyn Yasbeck Mrs Antoni Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca Richards Master George Sibley Compton Miss Sara Rebecca Chip Mr Chang Marechal Mr Pierre Als Mrs Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Aks Mrs	4	Futrelle Mrs Jacques Heath Lily May Peel
Sandstrom Miss Marguerite Rut Sandstrom Miss Marguerite Rut Bonnell Miss Elizabeth Hewlett Mrs Mary D Kingcome Williams Mr Charles Eugene Masselmani Mrs Fatima Beesley Mr Lawrence McGowan Miss Anna "Annie" Sloper Mr William Thompson Asplund Mrs Carl Oscar Selma Augusta Emilia Jo O'Dwyer Miss Ellen "Nellie" Spencer Mrs William Augustus Marie Eugenie Glynn Miss Mary Agatha Mamee Mr Hanna Nicola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia O'Driscoll Miss Bridget Harper Mrs Henry Sleeper Myna Haxtun Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Card Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Mallet Master Andre Moor Mrs Beila Mallet Master Andre Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph Stone Mrs George Nelson Martha Evelyn Yasbeck Mrs Antoni Selini Alexander McCormack Mr Thomas Joseph Compton Miss Sara Rebecca Chip Mr Chang Marechal Mr Pierre Serepeca Miss Augusta Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Mick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Swift Mrs Frederick Joel Margaret Welles Barron Myon Mrs Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Johnson Master Harold Theodor		-
Bonnell Miss Elizabeth Hewlett Mrs Mary D Kingcome Williams Mr Charles Eugene Masselmani Mrs Fatima Beesley Mr Lawrence McGowan Miss Anna "Annie" Lawrence McGowan Miss Anna "Annie" Asplund Mrs Carl Oscar Selma Augusta Emilia Jo Spencer Mrs William Augusta Emilia Jo Spencer Mrs William Augusta Emilia Jo Spencer Mrs William Augusta Emilia Jo Mamee Mr Hanna Mocolner Mrs Mrs Henry Sleeper Myna Haxtun Mamee Mr Hugh Moolner Mr Hugh Moolner Mr Hugh Moolner Mr Hugh Moolner Mr Hugh Mugg Miss Emily Mest Miss Constance Mirium Lard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Moor Mrs Beila Mallet Master Andre Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph Mascell Mr Pierre McCormack Mr Thomas Joseph Maccormack Mr Thomas Mr Mac	10	-
Hewlett Mrs Mary D Kingcome Williams Mr Charles Eugene Masselmani Mrs Fatima Beesley Mr Lawrence McGowan Miss Anna "Annie" Sloper Mr William Thompson Asplund Mrs Carl Oscar Selma Augusta Emilia Jo Spencer Mrs William Augustus Marie Eugenie Glynn Miss Mary Agatha Mamee Mr Hanna Glynn Miss Mary Agatha Mamee Mr Hanna Nicola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia Beach Devaney Miss Margaret Delia Glynn Miss Bridget Harper Mrs Henry Sleeper Myna Haxtun Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Rugg Miss Emily West Miss Constance Mirium Card Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre McOormack Mr Thomas Joseph McOormack Mr Thomas Joseph Stone Mrs George Nelson Martha Evelyn Yasbeck Mrs Antoni Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca Richards Master George Sibley Compton Miss Sara Rebecca Richards Master George Sibley Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Mick Mrs George Dennick Mary Hitchcock Back Mars Frederick Joel Margaret Welles Barron Wick Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Swift Mrs Frederick Joel Margaret Welles Barron Duran y More Miss Asuncion Johnson Master Harold Theodor	11	Sandstrom Miss Marguerite Rut
Milliams Mr Charles Eugene Masselmani Mrs Fatima Beesley Mr Lawrence McGowan Miss Anna "Annie" Sloper Mr William Thompson Asplund Mrs Carl Oscar Selma Augusta Emilia Jo O'Dwyer Miss Ellen "Nellie" Spencer Mrs William Augustus Marie Eugenie Glynn Miss Mary Agatha Mamee Mr Hanna Micola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia O'Driscoll Miss Bridget Harper Mrs Henry Sleeper Myna Haxtun Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Lard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph McCormack Mrs Antoni Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca Richards Master George Sibley Compton Miss Sara Rebecca Richards Master George Sibley Marechal Mr Pierre McCormack Mr Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Mrs George Dennick Mary Hitchcock Back Malle Mars Frederick Joel Margaret Welles Barron McCorm y More Miss Rauncion Mystrom Mrs Karollina Mystrom Mrs Karollina Mystrom Mrs Karollina More Miss Sauncion More Miss Mary Conover Aks Mrs Sam Leah Rosen More Miss More Miss More Miss Mary Conover Aks Mrs Sam Leah Rosen More Miss More Miss Miss More M	12	Bonnell Miss Elizabeth
Beesley Mr Lawrence McGowan Miss Anna "Annie" Asplund Mrs Carl Oscar Selma Augusta Emilia Jo O'Dwyer Miss Ellen "Nellie" Spencer Mrs William Augustus Emilia Jo Glynn Miss Mary Agatha Mamee Mr Hanna Micola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia Woolner Mrs Lizzie Elizabeth Anne Wilkinson Harper Mrs Henry Sleeper Myna Haxtun Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Moolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Icard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph Stone Mrs George Nelson Martha Evelyn Stone Mrs George Nelson Martha Evelyn Stone Mrs George Nelson Martha Evelyn Marechal Mr Pierre Grigh Marechal Mr Pierre Grigh Marechal Mr Pierre Grigh Marechal Mr Pierre Ass Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Mick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Morn Mrs Karolina	16	Hewlett Mrs Mary D Kingcome
Beesley Mr Lawrence McGowan Miss Anna "Annie" Sloper Mr William Thompson Asplund Mrs Carl Oscar Selma Augusta Emilia Jo O'Dwyer Miss Ellen "Nellie" Spencer Mrs William Augustus Marie Eugenie Glynn Miss Mary Agatha Mamee Mr Hanna Micola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia Messer Devaney Miss Margaret Delia Messer Devaney Miss Margaret Delia Messer Mrs Harper Mrs Henry Sleeper Myna Haxtun Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Messer Messer Messer Moolner Mr Hugh Rugg Miss Emily Mest Miss Constance Mirium Icard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Moor Mrs Beila Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Mallet Master Andre McCormack Mr Thomas Joseph	18	Williams Mr Charles Eugene
McGowan Miss Anna "Annie" Sloper Mr William Thompson Asplund Mrs Carl Oscar Selma Augusta Emilia Jo O'Dwyer Miss Ellen "Nellie" Spencer Mrs William Augustus Marie Eugenie Glynn Miss Mary Agatha Mamee Mr Hanna Micola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia O'Driscoll Miss Bridget Harper Mrs Henry Sleeper Myna Haxtun Harper Mrs Henry Sleeper Myna Haxtun Harper Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Lard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph Stone Mrs George Nelson Martha Evelyn Yasbeck Mrs Antoni Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca Richards Master George Sibley Compton Miss Sara Rebecca Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Back Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Bystrom Mrs Karolina Bystrom Mrs Karolina Duran y More Miss Asuncion	20	Masselmani Mrs Fatima
Asplund Mrs Carl Oscar Selma Augusta Emilia Jo O'Dwyer Miss Ellen "Nellie" Spencer Mrs William Augustus Marie Eugenie Glynn Miss Mary Agatha Mamee Mr Hanna Nicola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia Bernet Mrs Lizzie Elizabeth Anne Wilkinson Harper Mrs Henry Sleeper Myna Haxtun Haunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Harper Mrs Henry Sleeper Myna Haxtun Haunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Harper Mrs Henry Sleeper Myna Haxtun Haunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Haunthorpe Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre Moor Mrs Beila Moor Mrs Beila Mallet Master Andre Mrs George Nelson Martha Evelyn Mrs Arabenda Mr Pierre Mrs Arabenda Mrs Pi	22	Beesley Mr Lawrence
Asplund Mrs Carl Oscar Selma Augusta Emilia Jo O'Dwyer Miss Ellen "Nellie" Spencer Mrs William Augustus Marie Eugenie Mamee Mr Hanna Mamee Mr Hanna Micola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia O'Driscoll Miss Bridget Harper Mrs Henry Sleeper Myna Haxtun Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Icard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre Mallet Master Andre Mallet Master Andre Mallet Master Andre Mocormack Mr Thomas Joseph Stone Mrs George Nelson Martha Evelyn Yasbeck Mrs Antoni Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca Chip Mr Chang Marechal Mr Pierre Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina	23	McGowan Miss Anna "Annie"
O'Dwyer Miss Ellen "Nellie" Spencer Mrs William Augustus Marie Eugenie Glynn Miss Mary Agatha Mamee Mr Hanna Micola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia O'Driscoll Miss Bridget Harper Mrs Henry Sleeper Myna Haxtun Harper Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Lard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph Stone Mrs George Nelson Martha Evelyn Yasbeck Mrs Antoni Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca Chip Mr Chang Maredal Mr Pierre Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Bystrom Mrs Karolina Bystrom Mrs Karolina Duran y More Miss Asuncion	24	Sloper Mr William Thompson
Spencer Mrs William Augustus Marie Eugenie Glynn Miss Mary Agatha Mamee Mr Hanna Micola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia Devaney Miss Margaret Delia Beaunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Harper Mrs Henry Sleeper Myna Haxtun Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Lard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Moubarek Master Gerios Nye Mrs Elizabeth Ramell Moor Mrs Beila Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre Moor Mrs Beila Mallet Master Andre Mecormack Mr Thomas Joseph Mecormack Mr Thomas Joseph Stone Mrs George Nelson Martha Evelyn Yasbeck Mrs Antoni Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca Grege Compton Miss Sara Rebecca Grege Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Mick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Duran y More Miss Asuncion Duran y More Miss Asuncion	26	Asplund Mrs Carl Oscar Selma Augusta Emilia Jo
Glynn Miss Mary Agatha Mamee Mr Hanna Micola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia O'Driscoll Miss Bridget Harper Mrs Henry Sleeper Myna Haxtun Haunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Lard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph McCormack Mr Thomas McCormack Mr Thomas Mr Joseph McCormack Mr Thomas Mr Joseph McC	29	O'Dwyer Miss Ellen "Nellie"
Mamee Mr Hanna Nicola-Yarred Miss Jamila Laroche Miss Simonne Marie Anne Andree Devaney Miss Margaret Delia O'Driscoll Miss Bridget O'Driscoll Miss Bridget Harper Mrs Henry Sleeper Myna Haxtun Harper Mrs Henry Sleeper Myna Haxtun Harper Mrs Henry Sleeper Myna Haxtun Moolner Mr Hugh West Miss Constance Mirium Loard Miss Amelie Moubarek Master Gerios Mye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Moor Mrs Sara Rebecca Chip Mr Chang Marechal Mr Pierre Moor Miss Mary Conover Aks Mrs Sam Leah Rosen Moor Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Moor Mrs Frederick Joel Margaret Welles Barron Moor Mrs Moor Miss Asuncion Mort Mrs Mror Miss Asuncion Mort Mrs Mrs Mrs Mrs Maroli Mrs Mrs Maroli Mrs Mrs Mrs Maroli Mrs Mrs Mrs Maroli Mrs	32	Spencer Mrs William Augustus Marie Eugenie
Nicola-Yarred Miss Jamila 44 Laroche Miss Simonne Marie Anne Andree 45 Devaney Miss Margaret Delia 48 O'Driscoll Miss Bridget 53 Harper Mrs Henry Sleeper Myna Haxtun 54 Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson 56 Woolner Mr Hugh 57 Rugg Miss Emily 59 West Miss Constance Mirium 62 Icard Miss Amelie 66 Moubarek Master Gerios 67 Nye Mrs Elizabeth Ramell 68 Moubarek Master Gerios 69 Nye Mrs Elizabeth Ramell 60 Moubarek Master Gerios 60 Nye Mrs Elizabeth Ramell 61 Moor Mrs Beila 62 Lulic Mr Nikola 63 Mallet Master Andre 64 Moor Mrs Beila 65 Mallet Master Andre 65 Mallet Master Andre 66 Moor Mrs George Nelson Martha Evelyn 67 Yasbeck Mrs Antoni Selini Alexander 68 Richards Master George Sibley 68 Compton Miss Sara Rebecca 68 Marechal Mr Pierre 68 Marechal Mr Samuel L Edwiga Grabowska 69 Marechal Mr Pierre 69 Marechal Mr Pierre 60 Moubarek Mary Hitchcock 60 Daly Mr Peter Denis 61 Mr Peter Denis 62 Mr Mr Peter Denis 63 Swift Mrs Frederick Joel Margaret Welles Barron 64 Bystrom Mrs Karolina 65 Duran y More Miss Asuncion 66 Duran y More Miss Asuncion 67 Duran y More Miss Asuncion 67 Duran y More Miss Asuncion	33	Glynn Miss Mary Agatha
44 Laroche Miss Simonne Marie Anne Andree 45 Devaney Miss Margaret Delia 48 O'Driscoll Miss Bridget 53 Harper Mrs Henry Sleeper Myna Haxtun 54 Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson 56 Woolner Mr Hugh 57 Rugg Miss Emily 59 West Miss Constance Mirium 62 Icard Miss Amelie 66 Moubarek Master Gerios 67 Nye Mrs Elizabeth Ramell 68 Moubarek Master Gerios 69 Nye Mrs Elizabeth Ramell 60 Moubarek Master Gerios 60 Nye Mrs Elizabeth Ramell 61 Lulic Mr Nikola 62 Lulic Mr Nikola 63 Mallet Master Andre 64 Moor Mrs Beila 65 Moor Mrs Beila 66 Moor Mrs Beila 67 Compton Miss Sara Rebecca 68 Richards Master George Sibley 68 Compton Miss Sara Rebecca 68 Compton Miss Sara Rebecca 68 Marechal Mr Pierre 68 As Mrs Samuel L Edwiga Grabowska 68 Lines Miss Mary Conover 68 Aks Mrs Sam Leah Rosen 68 Aks Mrs Sam Leah Rosen 68 Baclini Mrs Solomon Latifa Qurban 68 Swift Mrs Frederick Joel Margaret Welles Barron 68 Bystrom Mrs Karolina 687 Duran y More Miss Auncion 688 Duran y More Miss Asuncion 687 Duran y More Miss Asuncion 687 Duran y More Miss Asuncion 688 Duran y More Miss Asuncion 687 Duran y More Miss Asuncion 688 Duran y More Miss Asuncion 689 Duran y More Miss Asuncion 680 Duran y More Miss Asuncion	37	Mamee Mr Hanna
45 Devaney Miss Margaret Delia 48 O'Driscoll Miss Bridget 53 Harper Mrs Henry Sleeper Myna Haxtun 54 Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson 56 Woolner Mr Hugh 57 Rugg Miss Emily 59 West Miss Constance Mirium 62 Icard Miss Amelie 66 Moubarek Master Gerios 67 Nye Mrs Elizabeth Ramell 68 Moubarek Master Gerios 69 Nye Mrs Elizabeth Ramell 69 Moubarek Master Gerios 60 Nye Mrs Elizabeth Ramell 60 Moubarek Master Gerios 61 Nye Mrs Elizabeth Ramell 61 Moubarek Master Gerios 62 Lulic Mr Nikola 63 Moor Mrs Beila 64 Moor Mrs Beila 65 McCormack Mr Thomas Joseph 65 McCormack Mr Thomas Joseph 67 McCormack Mr Thomas Joseph 68 McCompton Miss Sara Rebecca 68 Mallet Master George Sibley 69 Compton Miss Sara Rebecca 69 Chip Mr Chang 69 Compton Miss Sara Rebecca 69 Marechal Mr Pierre 69 Serepeca Miss Augusta 60 Goldenberg Mrs Samuel L Edwiga Grabowska 60 Lines Miss Mary Conover 61 Aks Mrs Sam Leah Rosen 62 Aks Mrs Sam Leah Rosen 63 Wick Mrs George Dennick Mary Hitchcock 64 Daly Mr Peter Denis 65 Baclini Mrs Solomon Latifa Qurban 66 Bystrom Mrs Karolina 66 Bystrom Mrs Karolina 66 Duran y More Miss Asuncion 66 Duran y More Miss Asuncion 67 Duran y More Miss Asuncion 67 Duran y More Miss Asuncion	40	Nicola-Yarred Miss Jamila
Harper Mrs Henry Sleeper Myna Haxtun Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Licard Miss Amelie Moubarek Master Gerios Mye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Hays Mrs Charles Melville Clara Jennings Gregg Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph Stone Mrs George Nelson Martha Evelyn Yasbeck Mrs Antoni Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca Richards Master George Sibley Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Mick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Duran y More Miss Asuncion Duran y More Miss Asuncion	44	Laroche Miss Simonne Marie Anne Andree
Harper Mrs Henry Sleeper Myna Haxtun Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Icard Miss Amelie Moubarek Master Gerios Mye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph McCormack Mr Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca Richards Master George Sibley Gompton Miss Sara Rebecca Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Mick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Mick Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Duran y More Miss Asuncion	45	Devaney Miss Margaret Delia
Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Icard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph George Nelson Martha Evelyn Yasbeck Mrs Antoni Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca George Miss Augusta Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis George Daly Mr Peter Denis Symit Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Duran y More Miss Asuncion	48	O'Driscoll Miss Bridget
Woolner Mr Hugh Rugg Miss Emily West Miss Constance Mirium Icard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell R10 Chambers Mrs Norman Campbell Bertha Griggs R21 Hays Mrs Charles Melville Clara Jennings Gregg R22 Lulic Mr Nikola Moor Mrs Beila Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph R29 McCormack Mr Thomas Joseph R30 Stone Mrs George Nelson Martha Evelyn R31 Yasbeck Mrs Antoni Selini Alexander Richards Master George Sibley Compton Miss Sara Rebecca R39 Chip Mr Chang R40 Marechal Mr Pierre R43 Serepeca Miss Augusta R50 Goldenberg Mrs Samuel L Edwiga Grabowska R54 Lines Miss Mary Conover R55 Aks Mrs Sam Leah Rosen R57 Wick Mrs George Dennick Mary Hitchcock R58 Daly Mr Peter Denis R59 Baclini Mrs Solomon Latifa Qurban R63 Swift Mrs Frederick Joel Margaret Welles Barron R66 Bystrom Mrs Karolina R67 Duran y More Miss Asuncion R70 Johnson Master Harold Theodor	53	Harper Mrs Henry Sleeper Myna Haxtun
Rugg Miss Emily West Miss Constance Mirium Icard Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Roman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Moor Mrs Beila Mallet Master Andre Moor Mrs Beila Mallet Master Andre Mocormack Mr Thomas Joseph McCormack Mr Thomas Joseph	54	Faunthorpe Mrs Lizzie Elizabeth Anne Wilkinson
West Miss Constance Mirium I card Miss Amelie Moubarek Master Gerios Nye Mrs Elizabeth Ramell Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre Mallet Master Andre Mages McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph McCormack Mr Samtha Evelyn Mrs George Nelson Martha Evelyn Mrs George Nelson Martha Evelyn Mrs George Nelson Martha Evelyn Mrs George Sibley Mrs George Miss Augusta Marechal Mr Pierre Mrs George Miss Augusta Mrs George Dennick Mary Conover Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Mrs Solomon Latifa Qurban Mrs Swift Mrs Frederick Joel Margaret Welles Barron Mrs George Denrick Mary More Miss Asuncion Mrs Duran y More Miss Asuncion Mrs Duran y More Miss Asuncion Mrs Obenson Master Harold Theodor	56	Woolner Mr Hugh
62	57	Rugg Miss Emily
Moubarek Master Gerios Nye Mrs Elizabeth Ramell 810 Chambers Mrs Norman Campbell Bertha Griggs 821 Hays Mrs Charles Melville Clara Jennings Gregg 822 Lulic Mr Nikola 824 Moor Mrs Beila 828 Mallet Master Andre 829 McCormack Mr Thomas Joseph 830 Stone Mrs George Nelson Martha Evelyn 831 Yasbeck Mrs Antoni Selini Alexander 832 Richards Master George Sibley 836 Compton Miss Sara Rebecca 839 Compton Miss Sara Rebecca 839 Chip Mr Chang 840 Marechal Mr Pierre 843 Serepeca Miss Augusta 850 Goldenberg Mrs Samuel L Edwiga Grabowska 854 Lines Miss Mary Conover 856 Aks Mrs Sam Leah Rosen 857 Wick Mrs George Dennick Mary Hitchcock 858 Daly Mr Peter Denis 859 Baclini Mrs Solomon Latifa Qurban 863 Swift Mrs Frederick Joel Margaret Welles Barron 866 Bystrom Mrs Karolina 867 Duran y More Miss Asuncion 970 Johnson Master Harold Theodor	59	West Miss Constance Mirium
810 Chambers Mrs Norman Campbell Bertha Griggs 821 Hays Mrs Charles Melville Clara Jennings Gregg 822 Lulic Mr Nikola 824 Moor Mrs Beila 828 Mallet Master Andre 829 McCormack Mr Thomas Joseph 830 Stone Mrs George Nelson Martha Evelyn 831 Yasbeck Mrs Antoni Selini Alexander 832 Richards Master George Sibley 836 Compton Miss Sara Rebecca 839 Chip Mr Chang 840 Marechal Mr Pierre 843 Serepeca Miss Augusta 850 Goldenberg Mrs Samuel L Edwiga Grabowska 854 Lines Miss Mary Conover 856 Aks Mrs Sam Leah Rosen 857 Wick Mrs George Dennick Mary Hitchcock 858 Daly Mr Peter Denis 859 Baclini Mrs Solomon Latifa Qurban 863 Swift Mrs Frederick Joel Margaret Welles Barron 866 Bystrom Mrs Karolina 867 Duran y More Miss Asuncion 870 Johnson Master Harold Theodor	62	Icard Miss Amelie
Chambers Mrs Norman Campbell Bertha Griggs Hays Mrs Charles Melville Clara Jennings Gregg Lulic Mr Nikola Moor Mrs Beila Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph McCormack Matter McCormack McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph McCormack Mr Thomas Joseph		Moubarek Master Gerios
Hays Mrs Charles Melville Clara Jennings Gregg R22 Lulic Mr Nikola R24 Moor Mrs Beila R28 Mallet Master Andre R29 McCormack Mr Thomas Joseph R30 Stone Mrs George Nelson Martha Evelyn R31 Yasbeck Mrs Antoni Selini Alexander R32 Richards Master George Sibley R36 Compton Miss Sara Rebecca R39 Compton Miss Sara Rebecca R48 Serepeca Miss Augusta R50 Goldenberg Mrs Samuel L Edwiga Grabowska R51 Lines Miss Mary Conover R52 Aks Mrs Sam Leah Rosen R53 Wick Mrs George Dennick Mary Hitchcock R54 Daly Mr Peter Denis R55 Baclini Mrs Solomon Latifa Qurban R65 Baclini Mrs Solomon Latifa Qurban R66 Bystrom Mrs Karolina R67 Duran y More Miss Asuncion R70 Johnson Master Harold Theodor	67	Nye Mrs Elizabeth Ramell
Hays Mrs Charles Melville Clara Jennings Gregg R22 Lulic Mr Nikola R24 Moor Mrs Beila R28 Mallet Master Andre R29 McCormack Mr Thomas Joseph R30 Stone Mrs George Nelson Martha Evelyn R31 Yasbeck Mrs Antoni Selini Alexander R32 Richards Master George Sibley R36 Compton Miss Sara Rebecca R39 Chip Mr Chang R40 Marechal Mr Pierre R43 Serepeca Miss Augusta R50 Goldenberg Mrs Samuel L Edwiga Grabowska R54 Lines Miss Mary Conover R56 Aks Mrs Sam Leah Rosen R57 Wick Mrs George Dennick Mary Hitchcock R58 Daly Mr Peter Denis R59 Baclini Mrs Solomon Latifa Qurban R63 Swift Mrs Frederick Joel Margaret Welles Barron R66 Bystrom Mrs Karolina R67 Duran y More Miss Asuncion Johnson Master Harold Theodor	810	 Chambers Mrs Norman Campbell Bertha Griggs
Lulic Mr Nikola Moor Mrs Beila Mallet Master Andre McCormack Mr Thomas Joseph McCormack Master George Sibley McCompton Miss Sara Rebecca McCompton Miss Sara Rebecca McCormack Master George Sibley McCompton Miss Sara Rebecca McCormack Mrs Sara Rebecca McLip Mr Chang McCormack Mrs Sara Rebecca McLip Mr Chang McCormack Mrs Sara Rebecca McCormack Mrs Sara Rebecca McLip Mrs Sara Rebecca McLip Mrs Sara Rebecca McCormack Mrs Sara		
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829 Stone Mrs George Nelson Martha Evelyn 831 Yasbeck Mrs Antoni Selini Alexander 832 Richards Master George Sibley 836 Compton Miss Sara Rebecca 839 Chip Mr Chang 840 Marechal Mr Pierre 843 Serepeca Miss Augusta 850 Goldenberg Mrs Samuel L Edwiga Grabowska 854 Lines Miss Mary Conover 856 Aks Mrs Sam Leah Rosen 857 Wick Mrs George Dennick Mary Hitchcock 858 Daly Mr Peter Denis 859 Baclini Mrs Solomon Latifa Qurban 863 Swift Mrs Frederick Joel Margaret Welles Barron 866 Bystrom Mrs Karolina 867 Duran y More Miss Asuncion 870 Johnson Master Harold Theodor		
Stone Mrs George Nelson Martha Evelyn Yasbeck Mrs Antoni Selini Alexander Richards Master George Sibley Richards Master George Sibley Compton Miss Sara Rebecca Richards Martha Evelyn Richards Master George Sibley Richards Master George Sibley Richards Master George Sibley Richards Master Chip Mr Chang Richards Mr Pierre Richards Mr Pierre Richards Mr Pierre Richards Mrs Augusta Richards Mrs Augusta Richards Mrs Mary Conover Richards Mrs Sam Leah Rosen Richards Marthald Richards Master Baron Richards Mrs Samuel L Edwiga Grabowska Richards Mrs Samuel L Edwiga Grabowska Richards Mrs Margusta Richards Mrs Samuel L Edwiga Grabowska Richards Mrs Margusta Richards Mrs Margusta Richards Mrs Margusta Richards Mrs Samuel L Edwiga Grabowska Richards Mrs Margusta Rebecca Richards Mrs Sama Rebecca Richards M	829	McCormack Mr Thomas Joseph
Richards Master George Sibley Compton Miss Sara Rebecca Chip Mr Chang Marechal Mr Pierre Serepeca Miss Augusta Serepeca Miss Augusta Serepeca Miss Augusta Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Serepeca Miss Augusta Lines Miss Mary Conover Reference Aks Mrs Sam Leah Rosen Reference Beorge Dennick Mary Hitchcock Reference Baclini Mrs Solomon Latifa Qurban Reference Bystrom Mrs Karolina Reference Bystrom Bys	830	-
Compton Miss Sara Rebecca Chip Mr Chang Marechal Mr Pierre Mass Serepeca Miss Augusta Serepeca Miss Augusta Serepeca Miss Augusta Lines Miss Mary Conover Mass Mrs Sam Leah Rosen Mick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Mass Mass Sam Leah Rosen Serepeca Miss Augusta Mass Mass Mass Mass Conover Mass Mrs Sam Leah Rosen Mick Mrs George Dennick Mary Hitchcock Mass Daly Mr Peter Denis Mass Mass Mass Mass Mass Mass Mass Mas	831	Yasbeck Mrs Antoni Selini Alexander
Chip Mr Chang Marechal Mr Pierre Serepeca Miss Augusta Serepeca Miss Augusta Lines Miss Mary Conover Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Serepeca Miss Augusta Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Aks Mrs Sam Leah Rosen Berron Berron Latifa Qurban Berron Berron Mrs Frederick Joel Margaret Welles Barron Berron Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor	832	Richards Master George Sibley
Marechal Mr Pierre Serepeca Miss Augusta Serepeca Miss Augusta Source Miss Mary Conover Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor	836	Compton Miss Sara Rebecca
Serepeca Miss Augusta Source Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor	839	Chip Mr Chang
Goldenberg Mrs Samuel L Edwiga Grabowska Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor	840	Marechal Mr Pierre
Lines Miss Mary Conover Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor	843	Serepeca Miss Augusta
Aks Mrs Sam Leah Rosen Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor	850	Goldenberg Mrs Samuel L Edwiga Grabowska
Wick Mrs George Dennick Mary Hitchcock Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor	854	Lines Miss Mary Conover
Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor	856	Aks Mrs Sam Leah Rosen
Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor	0.5.7	
Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor	857	Wick Mrs George Dennick Mary Hitchcock
Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor		
Duran y More Miss Asuncion Johnson Master Harold Theodor	858	Daly Mr Peter Denis
Johnson Master Harold Theodor	858 859	Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban
	858 859 863	Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron
Beckwith Mrs Richard Leonard Sallie Monypeny	858 859 863 866 867	Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion
	858 859 863 866 867 870	Daly Mr Peter Denis Baclini Mrs Solomon Latifa Qurban Swift Mrs Frederick Joel Margaret Welles Barron Bystrom Mrs Karolina Duran y More Miss Asuncion Johnson Master Harold Theodor

```
875
                        Abelson Mrs Samuel Hannah Wizosky
876
                           Najib Miss Adele Kiamie "Jane"
               Potter Mrs Thomas Jr Lily Alexenia Wilson
880
881
                Shelley Mrs William Imanita Parrish Hall
888
                               Graham Miss Margaret Edith
890
                                       Behr Mr Karl Howell
Name: Name, dtype: object
In [ ]:
In [88]:
def split names(names):
    return names.apply(split name)
In [89]:
split names(clear name(people Alive df))
Out[89]:
PassengerId
2
               (Cumings, Mrs, John, Bradley)
3
                 (Heikkinen, Miss, Laina,
4
            (Futrelle, Mrs, Jacques, Heath)
9
                    (Johnson, Mrs, Oscar, W)
10
              (Nasser, Mrs, Nicholas, Adele)
11
         (Sandstrom, Miss, Marguerite, Rut)
12
               (Bonnell, Miss, Elizabeth,
16
                     (Hewlett, Mrs, Mary, D)
            (Williams, Mr, Charles, Eugene)
18
20
                (Masselmani, Mrs, Fatima,
22
                  (Beesley, Mr, Lawrence,
23
             (McGowan, Miss, Anna, "Annie")
24
            (Sloper, Mr, William, Thompson)
26
                 (Asplund, Mrs, Carl, Oscar)
29
           (O'Dwyer, Miss, Ellen, "Nellie")
32
          (Spencer, Mrs, William, Augustus)
33
                 (Glynn, Miss, Mary, Agatha)
37
                       (Mamee, Mr, Hanna,
           (Nicola-Yarred, Miss, Jamila,
40
            (Laroche, Miss, Simonne, Marie)
44
45
           (Devaney, Miss, Margaret, Delia)
             (O'Driscoll, Miss, Bridget,
48
53
               (Harper, Mrs, Henry, Sleeper)
54
       (Faunthorpe, Mrs, Lizzie, Elizabeth)
                      (Woolner, Mr, Hugh,
56
57
                      (Rugg, Miss, Emily,
59
            (West, Miss, Constance, Mirium)
```

(Icard, Miss, Amelie,

62

```
66
               (Moubarek, Master, Gerios,
67
               (Nye, Mrs, Elizabeth, Ramell)
          (Chambers, Mrs, Norman, Campbell)
810
821
              (Hays, Mrs, Charles, Melville)
822
                      (Lulic, Mr, Nikola,
824
                       (Moor, Mrs, Beila,
                  (Mallet, Master, Andre,
828
829
            (McCormack, Mr, Thomas, Joseph)
830
                (Stone, Mrs, George, Nelson)
831
             (Yasbeck, Mrs, Antoni, Selini)
         (Richards, Master, George, Sibley)
832
              (Compton, Miss, Sara, Rebecca)
836
839
                        (Chip, Mr, Chang,
                   (Marechal, Mr, Pierre,
840
843
                (Serepeca, Miss, Augusta,
850
                (Goldenberg, Mrs, Samuel, L)
854
                (Lines, Miss, Mary, Conover)
856
                       (Aks, Mrs, Sam, Leah)
857
                (Wick, Mrs, George, Dennick)
858
                    (Daly, Mr, Peter, Denis)
859
            (Baclini, Mrs, Solomon, Latifa)
863
               (Swift, Mrs, Frederick, Joel)
866
                 (Bystrom, Mrs, Karolina,
867
                      (Duran, y, More, Miss)
         (Johnson, Master, Harold, Theodor)
870
872
          (Beckwith, Mrs, Richard, Leonard)
             (Abelson, Mrs, Samuel, Hannah)
875
876
                (Najib, Miss, Adele, Kiamie)
880
                   (Potter, Mrs, Thomas, Jr)
881
           (Shelley, Mrs, William, Imanita)
888
            (Graham, Miss, Margaret, Edith)
890
                    (Behr, Mr, Karl, Howell)
Name: Name, dtype: object
```

```
In [90]:
survival_df.groupby(['Survived','Parch']).size()
Out[90]:
Survived Parch
                    445
          0
           1
                     53
           2
                     40
           3
                      2
           4
                      4
           5
                      4
           6
                      1
           0
1
                    233
           1
                     65
           2
                     40
           3
                      3
           5
                      1
dtype: int64
In [91]:
def age_categorize(age):
    if age>=90:
        return '90+'
    elif age>=80:
        return '80-90'
    elif age>=70:
        return '70 -80'
    elif age>=60:
        return '60-70'
    elif age>=50:
        return '50-60'
    elif age>=40:
        return '40-50'
    elif age>=30:
        return '30-40'
    elif age>=20:
        return '20-30'
    elif age>=10:
        return '10-20'
    elif age<10:</pre>
        return '0-10'
```

```
In [92]:
age_categorize(38)
Out[92]:
'30-40'
In [93]:
def comp_age_categorize(data):
    return data.apply(age_categorize)
In [94]:
In [ ]:
In [95]:
Age_categorize_df.groupby('Age').size()
Out[95]:
Age
0 - 10
           62
10-20
          102
20-30
          220
30-40
          167
40-50
           89
50-60
           48
60-70
           19
70 -80
            6
80-90
            1
dtype: int64
In [96]:
Age_categorize_df.groupby('Age').get_group('0-10')
Out[96]:
```

	Age
PassengerId	
8	0-10
11	0-10
17	0-10
25	0_10

23	0-10
44	0-10
51	0-10
59	0-10
64	0-10
79	0-10
120	0-10
148	0-10
165	0-10
166	0-10
172	0-10
173	0-10
183	0-10
184	0-10
185	0-10
194	0-10
206	0-10
234	0-10
238	0-10
262	0-10
279	0-10
298	0-10
306	0-10
341	0-10
349	0-10
375	0-10
382	0-10
	ļ
446	0-10
449	0-10
470	0-10
480	0-10

100	0 10
481	0-10
490	0-10
531	0-10
536	0-10
542	0-10
550	0-10
619	0-10
635	0-10
643	0-10
645	0-10
692	0-10
721	0-10
751	0-10
752	0-10
756	0-10
778	0-10
788	0-10
789	0-10
804	0-10
814	0-10
825	0-10
828	0-10
832	0-10
851	0-10
853	0-10
870	0-10

62 rows × 1 columns

```
In [97]:
```

```
not_alive_df=survival_df.groupby('Survived').get_group(0)
print not_alive_df
```

	Survived	Pclass	\
PassengerId			
1	0	3	
5	0	3	
6	0	3	
7	0	1	
8	0	3	
13	0	3	
14	0	3	
15	0	3	
17	0	3	
19	0	3	
21	0	2	
25	0	3	
27	0	3	
28	0	1	
30	0	3	
31	0	1	
34	0	2	
25	^	1	

In [98]:

print Alive_df

	Survived	Pclass	\
PassengerId			
2	1	1	
3	1	3	
4	1	1	
9	1	3	
10	1	2	
11	1	3	
12	1	1	
16	1	2	
18	1	2	
20	1	3	
22	1	2	
23	1	3	
24	1	1	
26	1	3	
29	1	3	
32	1	1	
33	1	3	
27	1	2	

```
In [99]:
Age_alive=pd.DataFrame.from_dict(comp_age_categorize(Alive_df['Age']))
Age not alive=pd.DataFrame.from dict(comp age categorize(not alive df['Age']))
In [100]:
print Age_alive.groupby('Age').size()
print Age not alive.groupby('Age').size()
Age
0 - 10
         38
10-20
         41
20-30
         77
30-40
         73
40 - 50
         34
50-60
         20
60-70
          6
80-90
          1
dtype: int64
Age
0 - 10
           24
10-20
           61
20-30
          143
30-40
           94
40 - 50
           55
50-60
           28
60-70
           13
70 -80
            6
dtype: int64
In [101]:
x=pd.DataFrame.from_dict({'Survived': Age_alive.groupby('Age').size()})
y=pd.DataFrame.from dict({'Lost': Age not alive.groupby('Age').size()})
In [ ]:
```

In [102]:

```
z=pd.concat([x,y],axis=1)
print z
z.sum()
```

	Survived	Lost
0-10	38.0	24.0
10-20	41.0	61.0
20-30	77.0	143.0
30-40	73.0	94.0
40-50	34.0	55.0
50-60	20.0	28.0
60-70	6.0	13.0
70 -80	NaN	6.0
80-90	1.0	NaN

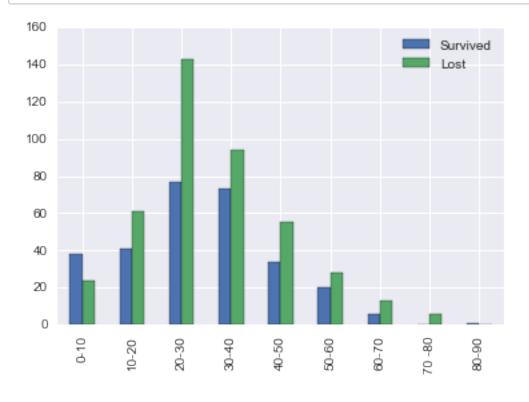
Out[102]:

Survived 290.0 Lost 424.0 dtype: float64

In [103]:

```
%matplotlib inline
```

z.plot.bar()
plt.show()



```
In [104]:
Alive_df.groupby(['SibSp','Parch']).get_group((0,0)).sum()['Survived']
Out[104]:
163.0
In [105]:
len(not_alive_df.groupby(['SibSp','Parch']).get_group((0,0)))
Out[105]:
```

374

In []:

In [106]:

survival_df.groupby('Age').get_group(5)

Out[106]:

	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	С
PassengerId										
59	1	2	West, Miss. Constance Mirium	female	5.0	1	2	C.A. 34651	27.7500	N
234	1	3	Asplund, Miss. Lillian Gertrud	female	5.0	4	2	347077	31.3875	N
449	1	3	Baclini, Miss. Marie Catherine	female	5.0	2	1	2666	19.2583	N
778	1	3	Emanuel, Miss. Virginia Ethel	female	5.0	0	0	364516	12.4750	N

```
In [107]:
```

```
survival_df.groupby(['Embarked','Survived']).size()
```

Out[107]:

Embarked	Survived	
C	0	75
	1	93
Q	0	47
	1	30
S	0	427
	1	217

dtype: int64

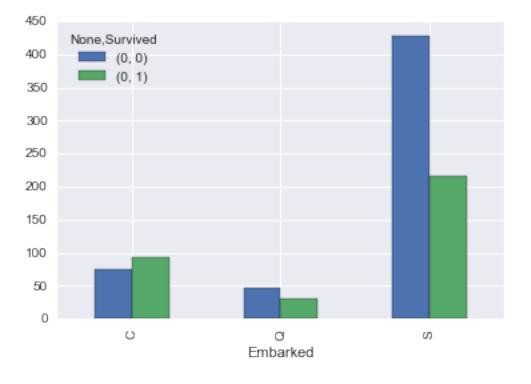
In [108]:

Embarked=pd.DataFrame.from_dict(survival_df.groupby(['Embarked','Survived']).size())
print Embarked
Embarked.plot.bar()

	U	
Survived	0	1
Embarked		
С	75	93
Q	47	30
S	427	217

Out[108]:

<matplotlib.axes._subplots.AxesSubplot at 0x11d534910>



```
In [126]:
 def use_survived_lost(survived):
                  if survived==0:
                                   return 'LostLife'
                  elif survived==1:
                                   return 'Survived'
In [133]:
use_survived_lost(1)
Out[133]:
 'Survived'
In [131]:
passenger_class= pd.DataFrame.from_dict({'Alive':survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival_df.groupby(['Pclass','Survival
print passenger class
                                      Alive
Survived
                                                        0
                                                                              1
Pclass
1
                                                    80
                                                                    136
 2
                                                    97
                                                                         87
 3
                                               372
                                                                     119
In [132]:
 def DF_survived_lost(data):
                  return data.apply(use survived lost)
 print DF_survived_lost(survival_df['Survived'])
PassengerId
                              LostLife
1
                              Survived
 2
 3
                              Survived
 4
                              Survived
5
                             LostLife
 6
                             LostLife
 7
                             LostLife
                              LostLife
 8
9
                              Survived
                              Survived
 10
11
                              Survived
 12
                              Survived
 13
                              LostLife
14
                              LostLife
 15
                              LostLife
 16
                              Survived
```

```
17
       LostLife
18
       Survived
19
       LostLife
20
       Survived
21
       LostLife
22
       Survived
23
       Survived
24
       Survived
25
       LostLife
       Survived
26
27
       LostLife
       LostLife
28
29
       Survived
30
       LostLife
862
       LostLife
863
       Survived
864
       LostLife
       LostLife
865
866
       Survived
867
       Survived
868
       LostLife
869
       LostLife
870
       Survived
871
       LostLife
872
       Survived
873
       LostLife
       LostLife
874
875
       Survived
876
       Survived
877
       LostLife
878
       LostLife
879
       LostLife
880
       Survived
881
       Survived
882
       LostLife
883
       LostLife
884
       LostLife
885
       LostLife
886
       LostLife
887
       LostLife
888
       Survived
889
       LostLife
890
       Survived
891
       LostLife
Name: Survived, dtype: object
```

In []:

In [115]:

passclass = pd.Series(survival_df.groupby(['Pclass','Survived']).size()).unstack()

print passclass

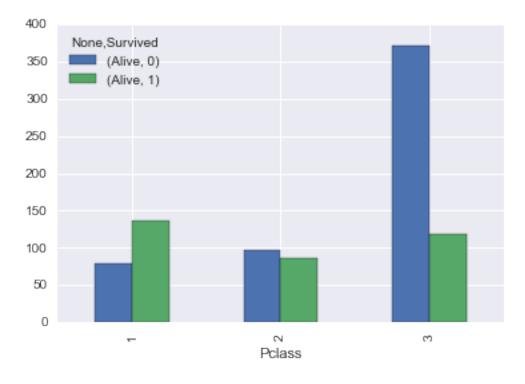
Survived	0	1
Pclass		
1	80	136
2	97	87
3	372	119

In [111]:

passenger_class.plot.bar()

Out[111]:

<matplotlib.axes._subplots.AxesSubplot at 0x11d89bc90>



```
In [ ]:
def split name(data):
    full name=data.split(" ")
    last name=full name[0]
    salutation=full name[1]
    first_name_1=full_name[2]
    if len(full name)==3:
        first name 2= ' '
    else:
        first name 2=full name[3]
    return salutation
print split name("Lines Miss Mary Conover")
In [ ]:
def split names(names):
    return names.apply(split name)
In [2]:
salutations = pd.DataFrame.from dict({'Salutations':split names(Raw survival df['Nar
NameError
                                           Traceback (most recent call
last)
<ipython-input-2-3e8ab3f5049d> in <module>()
---> 1 salutations = Pd.DataFrame.from dict({'Salutations':split name
s(Raw survival df['Name'])})
NameError: name 'Pd' is not defined
In [ ]:
print salutations.tail()
vv=salutations.groupby('Salutations').size()
print vv
```

```
In [ ]:
import heapq
def get_others(data):
    others=0
    if (data< 7):
        others +=data
    return others
In [ ]:
def get_top6(data):
    return data.apply(get_others).sum()
s1= pd.Series(heapq.nlargest(5,vv),index=['Mr','Miss','Mrs','Master','Dr'],name='Sal
s2=pd.Series([get top6(vv)],index=['others'],name='Salutations')
In [ ]:
Top6 =s1.append(s2)
print Top6
In [ ]:
Top6.plot.pie(subplots=True)
```