Data Frames Primer

Data Frames Primer

1. Input the following data into a data frame called titanic, and display the entire data frame:

+	++		+
Sex	Class	Survived	Died
+	+		+
Children	First	6	0
Children	Second	24	0
Children	Third	27	52
Men	First	57	118
Men	Second	14	154
Men	Third	75	387
Men	Crew	192	693
Women	First	140	4
Women	Second	80	13
Women	Third	76	89
Women	Crew	20	3
4			

```
In [6]: print('2. Delete the crew members from the data.')
    ts = ts.filter(ts.Class != "Crew")
    ts.show()
```

2. Delete the crew members from the data.

```
+----+
    Sex | Class | Survived | Died |
+-----
|Children| First|
                   61
                      01
|Children|Second|
                   24
                       0 l
|Children| Third|
                   27 | 52 |
    Men| First|
                   57 | 118 |
    Men|Second|
                   14 | 154 |
    Men| Third|
                   75 | 387 |
   Women| First|
                  140
                       4
   Women | Second |
                   80
                       13|
   Women | Third
                   76 | 89 |
+-----+
```

```
In [7]: print('3. Create a new column that is the total number of people for that group (
    ts = ts.withColumn("Total", ts.Survived+ ts.Died)
    ts.show()
```

3. Create a new column that is the total number of people for that group (those who survived + died).

```
+----+
     Sex | Class | Survived | Died | Total |
+----+
|Children| First|
                    6
                         0|
                              6
|Children|Second|
                   24
                         01
                             24
|Children| Third|
                   27 | 52 |
                             79
     Men| First|
                   57 | 118 |
                            175
     Men | Second |
                   14 | 154 |
                            168
     Men| Third|
                   75 | 387 |
                            462
   Women| First|
                   140
                            144
                        4
   Women | Second |
                   80|
                        13|
                            93|
   Women | Third
                   76 | 89 |
                            165
```

```
In [8]: print('4. Delete the column indicating the total number of people in that group.'
    ts = ts.drop("Total")
    ts.show()
```

4. Delete the column indicating the total number of people in that group.

```
+----+
      Sex | Class | Survived | Died |
|Children| First|
                        61
                             0 l
|Children|Second|
                       24
                             01
|Children| Third|
                       27
                           52
      Men| First|
                       57 | 118 |
     Men | Second |
                       14 | 154 |
     Men| Third|
                       75 | 387 |
   Women | First |
                      140
                            4|
   Women | Second |
                       80
                            13
   Women | Third
                       76
                            89
```

```
In [9]: print('5. Only show the rows where more than 80% of the people survived.\n')
ts.filter((ts.Survived/(ts.Survived+ ts.Died))*100 > 80).show()
```

5. Only show the rows where more than 80% of the people survived.

```
In [ ]:
```