Assignment2.rmd

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library(readr)  
library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(gtsummary)  
library(knitr)  
library(ggplot2)  
train <- read.csv("train.csv")

#This is the command for call every package that you need to use for this code #command for read the csv file and store in train

This is an example of Titanic data

print(head(train))#show the top 10 lines of train data frame

## PassengerId Survived Pclass  
## 1 1 0 3  
## 2 2 1 1  
## 3 3 1 3  
## 4 4 1 1  
## 5 5 0 3  
## 6 6 0 3  
## Name Sex Age SibSp Parch  
## 1 Braund, Mr. Owen Harris male 22 1 0  
## 2 Cumings, Mrs. John Bradley (Florence Briggs Thayer) female 38 1 0  
## 3 Heikkinen, Miss. Laina female 26 0 0  
## 4 Futrelle, Mrs. Jacques Heath (Lily May Peel) female 35 1 0  
## 5 Allen, Mr. William Henry male 35 0 0  
## 6 Moran, Mr. James male NA 0 0  
## Ticket Fare Cabin Embarked  
## 1 A/5 21171 7.2500 S  
## 2 PC 17599 71.2833 C85 C  
## 3 STON/O2. 3101282 7.9250 S  
## 4 113803 53.1000 C123 S  
## 5 373450 8.0500 S  
## 6 330877 8.4583 Q

table1 <- train %>%  
 select(Survived, Sex) %>%  
 tbl\_summary(by = Survived)

#store the select column in the table1 as table platform and calculate form gtsummary function

#use as pipe for continues input/output” Table for show selected of survived sex column

print(table1)

## <div id="xluleejemy" style="padding-left:0px;padding-right:0px;padding-top:10px;padding-bottom:10px;overflow-x:auto;overflow-y:auto;width:auto;height:auto;">  
## <style>#xluleejemy table {  
## font-family: system-ui, 'Segoe UI', Roboto, Helvetica, Arial, sans-serif, 'Apple Color Emoji', 'Segoe UI Emoji', 'Segoe UI Symbol', 'Noto Color Emoji';  
## -webkit-font-smoothing: antialiased;  
## -moz-osx-font-smoothing: grayscale;  
## }  
##   
## #xluleejemy thead, #xluleejemy tbody, #xluleejemy tfoot, #xluleejemy tr, #xluleejemy td, #xluleejemy th {  
## border-style: none;  
## }  
##   
## #xluleejemy p {  
## margin: 0;  
## padding: 0;  
## }  
##   
## #xluleejemy .gt\_table {  
## display: table;  
## border-collapse: collapse;  
## line-height: normal;  
## margin-left: auto;  
## margin-right: auto;  
## color: #333333;  
## font-size: 16px;  
## font-weight: normal;  
## font-style: normal;  
## background-color: #FFFFFF;  
## width: auto;  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #A8A8A8;  
## border-right-style: none;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #A8A8A8;  
## border-left-style: none;  
## border-left-width: 2px;  
## border-left-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_caption {  
## padding-top: 4px;  
## padding-bottom: 4px;  
## }  
##   
## #xluleejemy .gt\_title {  
## color: #333333;  
## font-size: 125%;  
## font-weight: initial;  
## padding-top: 4px;  
## padding-bottom: 4px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-bottom-color: #FFFFFF;  
## border-bottom-width: 0;  
## }  
##   
## #xluleejemy .gt\_subtitle {  
## color: #333333;  
## font-size: 85%;  
## font-weight: initial;  
## padding-top: 3px;  
## padding-bottom: 5px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-top-color: #FFFFFF;  
## border-top-width: 0;  
## }  
##   
## #xluleejemy .gt\_heading {  
## background-color: #FFFFFF;  
## text-align: center;  
## border-bottom-color: #FFFFFF;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_bottom\_border {  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_col\_headings {  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_col\_heading {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: normal;  
## text-transform: inherit;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## vertical-align: bottom;  
## padding-top: 5px;  
## padding-bottom: 6px;  
## padding-left: 5px;  
## padding-right: 5px;  
## overflow-x: hidden;  
## }  
##   
## #xluleejemy .gt\_column\_spanner\_outer {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: normal;  
## text-transform: inherit;  
## padding-top: 0;  
## padding-bottom: 0;  
## padding-left: 4px;  
## padding-right: 4px;  
## }  
##   
## #xluleejemy .gt\_column\_spanner\_outer:first-child {  
## padding-left: 0;  
## }  
##   
## #xluleejemy .gt\_column\_spanner\_outer:last-child {  
## padding-right: 0;  
## }  
##   
## #xluleejemy .gt\_column\_spanner {  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## vertical-align: bottom;  
## padding-top: 5px;  
## padding-bottom: 5px;  
## overflow-x: hidden;  
## display: inline-block;  
## width: 100%;  
## }  
##   
## #xluleejemy .gt\_spanner\_row {  
## border-bottom-style: hidden;  
## }  
##   
## #xluleejemy .gt\_group\_heading {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## text-transform: inherit;  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## vertical-align: middle;  
## text-align: left;  
## }  
##   
## #xluleejemy .gt\_empty\_group\_heading {  
## padding: 0.5px;  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## vertical-align: middle;  
## }  
##   
## #xluleejemy .gt\_from\_md > :first-child {  
## margin-top: 0;  
## }  
##   
## #xluleejemy .gt\_from\_md > :last-child {  
## margin-bottom: 0;  
## }  
##   
## #xluleejemy .gt\_row {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## margin: 10px;  
## border-top-style: solid;  
## border-top-width: 1px;  
## border-top-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## vertical-align: middle;  
## overflow-x: hidden;  
## }  
##   
## #xluleejemy .gt\_stub {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## text-transform: inherit;  
## border-right-style: solid;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #xluleejemy .gt\_stub\_row\_group {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## text-transform: inherit;  
## border-right-style: solid;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## padding-left: 5px;  
## padding-right: 5px;  
## vertical-align: top;  
## }  
##   
## #xluleejemy .gt\_row\_group\_first td {  
## border-top-width: 2px;  
## }  
##   
## #xluleejemy .gt\_row\_group\_first th {  
## border-top-width: 2px;  
## }  
##   
## #xluleejemy .gt\_summary\_row {  
## color: #333333;  
## background-color: #FFFFFF;  
## text-transform: inherit;  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #xluleejemy .gt\_first\_summary\_row {  
## border-top-style: solid;  
## border-top-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_first\_summary\_row.thick {  
## border-top-width: 2px;  
## }  
##   
## #xluleejemy .gt\_last\_summary\_row {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_grand\_summary\_row {  
## color: #333333;  
## background-color: #FFFFFF;  
## text-transform: inherit;  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #xluleejemy .gt\_first\_grand\_summary\_row {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-top-style: double;  
## border-top-width: 6px;  
## border-top-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_last\_grand\_summary\_row\_top {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-bottom-style: double;  
## border-bottom-width: 6px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_striped {  
## background-color: rgba(128, 128, 128, 0.05);  
## }  
##   
## #xluleejemy .gt\_table\_body {  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_footnotes {  
## color: #333333;  
## background-color: #FFFFFF;  
## border-bottom-style: none;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 2px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_footnote {  
## margin: 0px;  
## font-size: 90%;  
## padding-top: 4px;  
## padding-bottom: 4px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #xluleejemy .gt\_sourcenotes {  
## color: #333333;  
## background-color: #FFFFFF;  
## border-bottom-style: none;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 2px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #xluleejemy .gt\_sourcenote {  
## font-size: 90%;  
## padding-top: 4px;  
## padding-bottom: 4px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #xluleejemy .gt\_left {  
## text-align: left;  
## }  
##   
## #xluleejemy .gt\_center {  
## text-align: center;  
## }  
##   
## #xluleejemy .gt\_right {  
## text-align: right;  
## font-variant-numeric: tabular-nums;  
## }  
##   
## #xluleejemy .gt\_font\_normal {  
## font-weight: normal;  
## }  
##   
## #xluleejemy .gt\_font\_bold {  
## font-weight: bold;  
## }  
##   
## #xluleejemy .gt\_font\_italic {  
## font-style: italic;  
## }  
##   
## #xluleejemy .gt\_super {  
## font-size: 65%;  
## }  
##   
## #xluleejemy .gt\_footnote\_marks {  
## font-size: 75%;  
## vertical-align: 0.4em;  
## position: initial;  
## }  
##   
## #xluleejemy .gt\_asterisk {  
## font-size: 100%;  
## vertical-align: 0;  
## }  
##   
## #xluleejemy .gt\_indent\_1 {  
## text-indent: 5px;  
## }  
##   
## #xluleejemy .gt\_indent\_2 {  
## text-indent: 10px;  
## }  
##   
## #xluleejemy .gt\_indent\_3 {  
## text-indent: 15px;  
## }  
##   
## #xluleejemy .gt\_indent\_4 {  
## text-indent: 20px;  
## }  
##   
## #xluleejemy .gt\_indent\_5 {  
## text-indent: 25px;  
## }  
##   
## #xluleejemy .katex-display {  
## display: inline-flex !important;  
## margin-bottom: 0.75em !important;  
## }  
##   
## #xluleejemy div.Reactable > div.rt-table > div.rt-thead > div.rt-tr.rt-tr-group-header > div.rt-th-group:after {  
## height: 0px !important;  
## }  
## </style>  
## <table class="gt\_table" data-quarto-disable-processing="false" data-quarto-bootstrap="false">  
## <thead>  
## <tr class="gt\_col\_headings">  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_left" rowspan="1" colspan="1" scope="col" id="&lt;span class='gt\_from\_md'&gt;&lt;strong&gt;Characteristic&lt;/strong&gt;&lt;/span&gt;"><span class='gt\_from\_md'><strong>Characteristic</strong></span></th>  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_center" rowspan="1" colspan="1" scope="col" id="&lt;span class='gt\_from\_md'&gt;&lt;strong&gt;0&lt;/strong&gt;&lt;br /&gt;&#10;N = 549&lt;/span&gt;&lt;span class=&quot;gt\_footnote\_marks&quot; style=&quot;white-space:nowrap;font-style:italic;font-weight:normal;line-height: 0;&quot;&gt;&lt;sup&gt;1&lt;/sup&gt;&lt;/span&gt;"><span class='gt\_from\_md'><strong>0</strong><br />  
## N = 549</span><span class="gt\_footnote\_marks" style="white-space:nowrap;font-style:italic;font-weight:normal;line-height: 0;"><sup>1</sup></span></th>  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_center" rowspan="1" colspan="1" scope="col" id="&lt;span class='gt\_from\_md'&gt;&lt;strong&gt;1&lt;/strong&gt;&lt;br /&gt;&#10;N = 342&lt;/span&gt;&lt;span class=&quot;gt\_footnote\_marks&quot; style=&quot;white-space:nowrap;font-style:italic;font-weight:normal;line-height: 0;&quot;&gt;&lt;sup&gt;1&lt;/sup&gt;&lt;/span&gt;"><span class='gt\_from\_md'><strong>1</strong><br />  
## N = 342</span><span class="gt\_footnote\_marks" style="white-space:nowrap;font-style:italic;font-weight:normal;line-height: 0;"><sup>1</sup></span></th>  
## </tr>  
## </thead>  
## <tbody class="gt\_table\_body">  
## <tr><td headers="label" class="gt\_row gt\_left">Sex</td>  
## <td headers="stat\_1" class="gt\_row gt\_center"><br /></td>  
## <td headers="stat\_2" class="gt\_row gt\_center"><br /></td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    female</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">81 (15%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">233 (68%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    male</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">468 (85%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">109 (32%)</td></tr>  
## </tbody>  
##   
## <tfoot class="gt\_footnotes">  
## <tr>  
## <td class="gt\_footnote" colspan="3"><span class="gt\_footnote\_marks" style="white-space:nowrap;font-style:italic;font-weight:normal;line-height: 0;"><sup>1</sup></span> <span class='gt\_from\_md'>n (%)</span></td>  
## </tr>  
## </tfoot>  
## </table>  
## </div>

#Show the table1

table2 <- train %>%  
 select(Survived, Sex, Age) %>%  
 filter(Survived==1) %>%  
 filter(!is.na(Age))

#Store the select column in table2 (selected only the survived and not NA in their ages)

Table for show only the Age and Sex of the servived

print(table2)

## Survived Sex Age  
## 1 1 female 38.00  
## 2 1 female 26.00  
## 3 1 female 35.00  
## 4 1 female 27.00  
## 5 1 female 14.00  
## 6 1 female 4.00  
## 7 1 female 58.00  
## 8 1 female 55.00  
## 9 1 male 34.00  
## 10 1 female 15.00  
## 11 1 male 28.00  
## 12 1 female 38.00  
## 13 1 female 14.00  
## 14 1 female 3.00  
## 15 1 female 19.00  
## 16 1 female 49.00  
## 17 1 female 29.00  
## 18 1 female 21.00  
## 19 1 female 5.00  
## 20 1 female 38.00  
## 21 1 female 29.00  
## 22 1 female 17.00  
## 23 1 male 32.00  
## 24 1 male 0.83  
## 25 1 female 30.00  
## 26 1 male 29.00  
## 27 1 female 17.00  
## 28 1 female 33.00  
## 29 1 female 23.00  
## 30 1 male 23.00  
## 31 1 female 34.00  
## 32 1 female 21.00  
## 33 1 female 32.50  
## 34 1 male 12.00  
## 35 1 male 24.00  
## 36 1 female 29.00  
## 37 1 female 19.00  
## 38 1 female 22.00  
## 39 1 female 24.00  
## 40 1 male 27.00  
## 41 1 female 22.00  
## 42 1 female 16.00  
## 43 1 female 40.00  
## 44 1 male 9.00  
## 45 1 female 1.00  
## 46 1 male 1.00  
## 47 1 female 4.00  
## 48 1 male 45.00  
## 49 1 female 32.00  
## 50 1 female 19.00  
## 51 1 male 3.00  
## 52 1 female 44.00  
## 53 1 female 58.00  
## 54 1 male 18.00  
## 55 1 male 26.00  
## 56 1 female 16.00  
## 57 1 male 40.00  
## 58 1 female 35.00  
## 59 1 female 31.00  
## 60 1 female 27.00  
## 61 1 female 32.00  
## 62 1 male 16.00  
## 63 1 male 38.00  
## 64 1 male 19.00  
## 65 1 female 35.00  
## 66 1 female 5.00  
## 67 1 female 8.00  
## 68 1 female 24.00  
## 69 1 male 37.00  
## 70 1 female 29.00  
## 71 1 female 30.00  
## 72 1 female 35.00  
## 73 1 female 50.00  
## 74 1 male 3.00  
## 75 1 male 25.00  
## 76 1 female 58.00  
## 77 1 female 35.00  
## 78 1 male 25.00  
## 79 1 female 41.00  
## 80 1 female 63.00  
## 81 1 female 35.00  
## 82 1 male 19.00  
## 83 1 male 30.00  
## 84 1 male 42.00  
## 85 1 female 22.00  
## 86 1 female 26.00  
## 87 1 female 19.00  
## 88 1 female 50.00  
## 89 1 male 0.92  
## 90 1 female 17.00  
## 91 1 female 30.00  
## 92 1 female 24.00  
## 93 1 female 18.00  
## 94 1 female 26.00  
## 95 1 female 24.00  
## 96 1 female 31.00  
## 97 1 female 40.00  
## 98 1 female 30.00  
## 99 1 female 22.00  
## 100 1 female 36.00  
## 101 1 female 36.00  
## 102 1 female 31.00  
## 103 1 female 16.00  
## 104 1 female 41.00  
## 105 1 male 45.00  
## 106 1 male 2.00  
## 107 1 female 24.00  
## 108 1 female 24.00  
## 109 1 female 40.00  
## 110 1 male 3.00  
## 111 1 female 22.00  
## 112 1 female 60.00  
## 113 1 female 24.00  
## 114 1 male 25.00  
## 115 1 female 22.00  
## 116 1 female 42.00  
## 117 1 female 1.00  
## 118 1 female 35.00  
## 119 1 female 36.00  
## 120 1 female 17.00  
## 121 1 male 36.00  
## 122 1 male 21.00  
## 123 1 female 23.00  
## 124 1 female 24.00  
## 125 1 female 28.00  
## 126 1 male 39.00  
## 127 1 male 3.00  
## 128 1 female 33.00  
## 129 1 male 44.00  
## 130 1 female 34.00  
## 131 1 female 18.00  
## 132 1 female 28.00  
## 133 1 female 19.00  
## 134 1 male 32.00  
## 135 1 male 28.00  
## 136 1 female 42.00  
## 137 1 female 14.00  
## 138 1 female 24.00  
## 139 1 female 45.00  
## 140 1 female 28.00  
## 141 1 male 4.00  
## 142 1 female 13.00  
## 143 1 male 34.00  
## 144 1 female 5.00  
## 145 1 male 52.00  
## 146 1 male 49.00  
## 147 1 male 29.00  
## 148 1 female 50.00  
## 149 1 male 48.00  
## 150 1 female 0.75  
## 151 1 female 33.00  
## 152 1 female 23.00  
## 153 1 female 2.00  
## 154 1 female 63.00  
## 155 1 male 25.00  
## 156 1 female 35.00  
## 157 1 male 9.00  
## 158 1 female 54.00  
## 159 1 female 16.00  
## 160 1 female 33.00  
## 161 1 male 26.00  
## 162 1 male 29.00  
## 163 1 male 36.00  
## 164 1 female 54.00  
## 165 1 female 34.00  
## 166 1 female 36.00  
## 167 1 female 30.00  
## 168 1 female 44.00  
## 169 1 female 50.00  
## 170 1 female 2.00  
## 171 1 female 7.00  
## 172 1 female 30.00  
## 173 1 female 22.00  
## 174 1 female 36.00  
## 175 1 male 32.00  
## 176 1 female 19.00  
## 177 1 male 8.00  
## 178 1 male 17.00  
## 179 1 male 22.00  
## 180 1 female 22.00  
## 181 1 female 48.00  
## 182 1 female 39.00  
## 183 1 female 36.00  
## 184 1 male 32.00  
## 185 1 male 62.00  
## 186 1 female 53.00  
## 187 1 male 36.00  
## 188 1 female 34.00  
## 189 1 female 39.00  
## 190 1 male 32.00  
## 191 1 female 25.00  
## 192 1 female 39.00  
## 193 1 female 18.00  
## 194 1 male 60.00  
## 195 1 female 52.00  
## 196 1 male 49.00  
## 197 1 female 24.00  
## 198 1 male 35.00  
## 199 1 male 27.00  
## 200 1 female 22.00  
## 201 1 female 40.00  
## 202 1 female 24.00  
## 203 1 female 4.00  
## 204 1 male 42.00  
## 205 1 male 20.00  
## 206 1 female 21.00  
## 207 1 male 80.00  
## 208 1 male 32.00  
## 209 1 female 28.00  
## 210 1 female 24.00  
## 211 1 female 0.75  
## 212 1 male 48.00  
## 213 1 male 56.00  
## 214 1 female 23.00  
## 215 1 female 18.00  
## 216 1 male 50.00  
## 217 1 male 20.00  
## 218 1 female 40.00  
## 219 1 male 31.00  
## 220 1 female 18.00  
## 221 1 male 36.00  
## 222 1 male 27.00  
## 223 1 female 15.00  
## 224 1 male 31.00  
## 225 1 female 4.00  
## 226 1 female 18.00  
## 227 1 male 35.00  
## 228 1 female 45.00  
## 229 1 male 42.00  
## 230 1 female 22.00  
## 231 1 female 24.00  
## 232 1 male 48.00  
## 233 1 female 38.00  
## 234 1 female 27.00  
## 235 1 female 6.00  
## 236 1 male 27.00  
## 237 1 female 30.00  
## 238 1 female 29.00  
## 239 1 male 35.00  
## 240 1 female 21.00  
## 241 1 male 31.00  
## 242 1 female 30.00  
## 243 1 female 4.00  
## 244 1 male 6.00  
## 245 1 female 48.00  
## 246 1 male 0.67  
## 247 1 female 33.00  
## 248 1 male 20.00  
## 249 1 female 36.00  
## 250 1 female 51.00  
## 251 1 female 54.00  
## 252 1 female 5.00  
## 253 1 female 43.00  
## 254 1 female 13.00  
## 255 1 female 17.00  
## 256 1 female 18.00  
## 257 1 male 1.00  
## 258 1 female 49.00  
## 259 1 female 31.00  
## 260 1 female 31.00  
## 261 1 male 11.00  
## 262 1 male 0.42  
## 263 1 male 27.00  
## 264 1 female 33.00  
## 265 1 female 52.00  
## 266 1 male 27.00  
## 267 1 female 27.00  
## 268 1 male 1.00  
## 269 1 female 62.00  
## 270 1 female 15.00  
## 271 1 male 0.83  
## 272 1 female 39.00  
## 273 1 male 32.00  
## 274 1 female 30.00  
## 275 1 female 16.00  
## 276 1 female 18.00  
## 277 1 female 45.00  
## 278 1 male 51.00  
## 279 1 female 24.00  
## 280 1 female 48.00  
## 281 1 female 42.00  
## 282 1 female 27.00  
## 283 1 male 4.00  
## 284 1 female 47.00  
## 285 1 female 28.00  
## 286 1 female 15.00  
## 287 1 female 56.00  
## 288 1 female 25.00  
## 289 1 female 19.00  
## 290 1 male 26.00

#shoe the table2

Table show number between sex and age of survived.

survived\_data <- table2%>%  
 select(Sex,Age)%>%  
 tbl\_summary(by = Sex)  
  
  
sumdata <- data.frame(  
 Min = min(table2$Age),  
 Max = max(table2$Age),  
 Mean = mean(table2$Age),  
 Median = median(table2$Age),  
 SD = sd(table2$Age),  
 IQR = IQR(table2$Age)  
)  
  
print(survived\_data)

## <div id="yinoaqsnkj" style="padding-left:0px;padding-right:0px;padding-top:10px;padding-bottom:10px;overflow-x:auto;overflow-y:auto;width:auto;height:auto;">  
## <style>#yinoaqsnkj table {  
## font-family: system-ui, 'Segoe UI', Roboto, Helvetica, Arial, sans-serif, 'Apple Color Emoji', 'Segoe UI Emoji', 'Segoe UI Symbol', 'Noto Color Emoji';  
## -webkit-font-smoothing: antialiased;  
## -moz-osx-font-smoothing: grayscale;  
## }  
##   
## #yinoaqsnkj thead, #yinoaqsnkj tbody, #yinoaqsnkj tfoot, #yinoaqsnkj tr, #yinoaqsnkj td, #yinoaqsnkj th {  
## border-style: none;  
## }  
##   
## #yinoaqsnkj p {  
## margin: 0;  
## padding: 0;  
## }  
##   
## #yinoaqsnkj .gt\_table {  
## display: table;  
## border-collapse: collapse;  
## line-height: normal;  
## margin-left: auto;  
## margin-right: auto;  
## color: #333333;  
## font-size: 16px;  
## font-weight: normal;  
## font-style: normal;  
## background-color: #FFFFFF;  
## width: auto;  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #A8A8A8;  
## border-right-style: none;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #A8A8A8;  
## border-left-style: none;  
## border-left-width: 2px;  
## border-left-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_caption {  
## padding-top: 4px;  
## padding-bottom: 4px;  
## }  
##   
## #yinoaqsnkj .gt\_title {  
## color: #333333;  
## font-size: 125%;  
## font-weight: initial;  
## padding-top: 4px;  
## padding-bottom: 4px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-bottom-color: #FFFFFF;  
## border-bottom-width: 0;  
## }  
##   
## #yinoaqsnkj .gt\_subtitle {  
## color: #333333;  
## font-size: 85%;  
## font-weight: initial;  
## padding-top: 3px;  
## padding-bottom: 5px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-top-color: #FFFFFF;  
## border-top-width: 0;  
## }  
##   
## #yinoaqsnkj .gt\_heading {  
## background-color: #FFFFFF;  
## text-align: center;  
## border-bottom-color: #FFFFFF;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_bottom\_border {  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_col\_headings {  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_col\_heading {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: normal;  
## text-transform: inherit;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## vertical-align: bottom;  
## padding-top: 5px;  
## padding-bottom: 6px;  
## padding-left: 5px;  
## padding-right: 5px;  
## overflow-x: hidden;  
## }  
##   
## #yinoaqsnkj .gt\_column\_spanner\_outer {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: normal;  
## text-transform: inherit;  
## padding-top: 0;  
## padding-bottom: 0;  
## padding-left: 4px;  
## padding-right: 4px;  
## }  
##   
## #yinoaqsnkj .gt\_column\_spanner\_outer:first-child {  
## padding-left: 0;  
## }  
##   
## #yinoaqsnkj .gt\_column\_spanner\_outer:last-child {  
## padding-right: 0;  
## }  
##   
## #yinoaqsnkj .gt\_column\_spanner {  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## vertical-align: bottom;  
## padding-top: 5px;  
## padding-bottom: 5px;  
## overflow-x: hidden;  
## display: inline-block;  
## width: 100%;  
## }  
##   
## #yinoaqsnkj .gt\_spanner\_row {  
## border-bottom-style: hidden;  
## }  
##   
## #yinoaqsnkj .gt\_group\_heading {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## text-transform: inherit;  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## vertical-align: middle;  
## text-align: left;  
## }  
##   
## #yinoaqsnkj .gt\_empty\_group\_heading {  
## padding: 0.5px;  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## vertical-align: middle;  
## }  
##   
## #yinoaqsnkj .gt\_from\_md > :first-child {  
## margin-top: 0;  
## }  
##   
## #yinoaqsnkj .gt\_from\_md > :last-child {  
## margin-bottom: 0;  
## }  
##   
## #yinoaqsnkj .gt\_row {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## margin: 10px;  
## border-top-style: solid;  
## border-top-width: 1px;  
## border-top-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## vertical-align: middle;  
## overflow-x: hidden;  
## }  
##   
## #yinoaqsnkj .gt\_stub {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## text-transform: inherit;  
## border-right-style: solid;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #yinoaqsnkj .gt\_stub\_row\_group {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## text-transform: inherit;  
## border-right-style: solid;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## padding-left: 5px;  
## padding-right: 5px;  
## vertical-align: top;  
## }  
##   
## #yinoaqsnkj .gt\_row\_group\_first td {  
## border-top-width: 2px;  
## }  
##   
## #yinoaqsnkj .gt\_row\_group\_first th {  
## border-top-width: 2px;  
## }  
##   
## #yinoaqsnkj .gt\_summary\_row {  
## color: #333333;  
## background-color: #FFFFFF;  
## text-transform: inherit;  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #yinoaqsnkj .gt\_first\_summary\_row {  
## border-top-style: solid;  
## border-top-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_first\_summary\_row.thick {  
## border-top-width: 2px;  
## }  
##   
## #yinoaqsnkj .gt\_last\_summary\_row {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_grand\_summary\_row {  
## color: #333333;  
## background-color: #FFFFFF;  
## text-transform: inherit;  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #yinoaqsnkj .gt\_first\_grand\_summary\_row {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-top-style: double;  
## border-top-width: 6px;  
## border-top-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_last\_grand\_summary\_row\_top {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-bottom-style: double;  
## border-bottom-width: 6px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_striped {  
## background-color: rgba(128, 128, 128, 0.05);  
## }  
##   
## #yinoaqsnkj .gt\_table\_body {  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_footnotes {  
## color: #333333;  
## background-color: #FFFFFF;  
## border-bottom-style: none;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 2px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_footnote {  
## margin: 0px;  
## font-size: 90%;  
## padding-top: 4px;  
## padding-bottom: 4px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #yinoaqsnkj .gt\_sourcenotes {  
## color: #333333;  
## background-color: #FFFFFF;  
## border-bottom-style: none;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 2px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #yinoaqsnkj .gt\_sourcenote {  
## font-size: 90%;  
## padding-top: 4px;  
## padding-bottom: 4px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #yinoaqsnkj .gt\_left {  
## text-align: left;  
## }  
##   
## #yinoaqsnkj .gt\_center {  
## text-align: center;  
## }  
##   
## #yinoaqsnkj .gt\_right {  
## text-align: right;  
## font-variant-numeric: tabular-nums;  
## }  
##   
## #yinoaqsnkj .gt\_font\_normal {  
## font-weight: normal;  
## }  
##   
## #yinoaqsnkj .gt\_font\_bold {  
## font-weight: bold;  
## }  
##   
## #yinoaqsnkj .gt\_font\_italic {  
## font-style: italic;  
## }  
##   
## #yinoaqsnkj .gt\_super {  
## font-size: 65%;  
## }  
##   
## #yinoaqsnkj .gt\_footnote\_marks {  
## font-size: 75%;  
## vertical-align: 0.4em;  
## position: initial;  
## }  
##   
## #yinoaqsnkj .gt\_asterisk {  
## font-size: 100%;  
## vertical-align: 0;  
## }  
##   
## #yinoaqsnkj .gt\_indent\_1 {  
## text-indent: 5px;  
## }  
##   
## #yinoaqsnkj .gt\_indent\_2 {  
## text-indent: 10px;  
## }  
##   
## #yinoaqsnkj .gt\_indent\_3 {  
## text-indent: 15px;  
## }  
##   
## #yinoaqsnkj .gt\_indent\_4 {  
## text-indent: 20px;  
## }  
##   
## #yinoaqsnkj .gt\_indent\_5 {  
## text-indent: 25px;  
## }  
##   
## #yinoaqsnkj .katex-display {  
## display: inline-flex !important;  
## margin-bottom: 0.75em !important;  
## }  
##   
## #yinoaqsnkj div.Reactable > div.rt-table > div.rt-thead > div.rt-tr.rt-tr-group-header > div.rt-th-group:after {  
## height: 0px !important;  
## }  
## </style>  
## <table class="gt\_table" data-quarto-disable-processing="false" data-quarto-bootstrap="false">  
## <thead>  
## <tr class="gt\_col\_headings">  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_left" rowspan="1" colspan="1" scope="col" id="&lt;span class='gt\_from\_md'&gt;&lt;strong&gt;Characteristic&lt;/strong&gt;&lt;/span&gt;"><span class='gt\_from\_md'><strong>Characteristic</strong></span></th>  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_center" rowspan="1" colspan="1" scope="col" id="&lt;span class='gt\_from\_md'&gt;&lt;strong&gt;female&lt;/strong&gt;&lt;br /&gt;&#10;N = 197&lt;/span&gt;&lt;span class=&quot;gt\_footnote\_marks&quot; style=&quot;white-space:nowrap;font-style:italic;font-weight:normal;line-height: 0;&quot;&gt;&lt;sup&gt;1&lt;/sup&gt;&lt;/span&gt;"><span class='gt\_from\_md'><strong>female</strong><br />  
## N = 197</span><span class="gt\_footnote\_marks" style="white-space:nowrap;font-style:italic;font-weight:normal;line-height: 0;"><sup>1</sup></span></th>  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_center" rowspan="1" colspan="1" scope="col" id="&lt;span class='gt\_from\_md'&gt;&lt;strong&gt;male&lt;/strong&gt;&lt;br /&gt;&#10;N = 93&lt;/span&gt;&lt;span class=&quot;gt\_footnote\_marks&quot; style=&quot;white-space:nowrap;font-style:italic;font-weight:normal;line-height: 0;&quot;&gt;&lt;sup&gt;1&lt;/sup&gt;&lt;/span&gt;"><span class='gt\_from\_md'><strong>male</strong><br />  
## N = 93</span><span class="gt\_footnote\_marks" style="white-space:nowrap;font-style:italic;font-weight:normal;line-height: 0;"><sup>1</sup></span></th>  
## </tr>  
## </thead>  
## <tbody class="gt\_table\_body">  
## <tr><td headers="label" class="gt\_row gt\_left">Age</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">28 (19, 38)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">28 (18, 36)</td></tr>  
## </tbody>  
##   
## <tfoot class="gt\_footnotes">  
## <tr>  
## <td class="gt\_footnote" colspan="3"><span class="gt\_footnote\_marks" style="white-space:nowrap;font-style:italic;font-weight:normal;line-height: 0;"><sup>1</sup></span> <span class='gt\_from\_md'>Median (Q1, Q3)</span></td>  
## </tr>  
## </tfoot>  
## </table>  
## </div>

#Collect the Sex and age value and calculate.

#Calculate min,max,mean,median,sd,iqr and store.

This table show the information about age of survived between the female and male. Use the Median to calculate the group of age that can survived.The median form female is equal to 28 and it equal to male. The first Quantile is 19 that slightly more then male that 18. Also the value of third Quantile from female still more than meal equal to 2. Although, some number of survived have been removed before use to calculate because of value of age is NA.

Number of Calculate Age of survive

kable(sumdata)

| Min | Max | Mean | Median | SD | IQR |
| --- | --- | --- | --- | --- | --- |
| 0.42 | 80 | 28.34369 | 28 | 14.95095 | 17 |

#Show the table of sumdata in the RMarkdown

Quantile = quantile(table2$Age)  
kable(Quantile, caption = "Quantile of their Age")

Quantile of their Age

|  | x |
| --- | --- |
| 0% | 0.42 |
| 25% | 19.00 |
| 50% | 28.00 |
| 75% | 36.00 |
| 100% | 80.00 |

#calcolate and show each of % of Quantile like 0 25 50 75 and 100

This is the plot graph for Age and sex of the titanic data.

qplot(factor(table2$Sex),table2$Age, data = table2, geom = c("boxplot","jitter"), fill =Sex, main= "graph", xlab = "sex" ,ylab = "age")

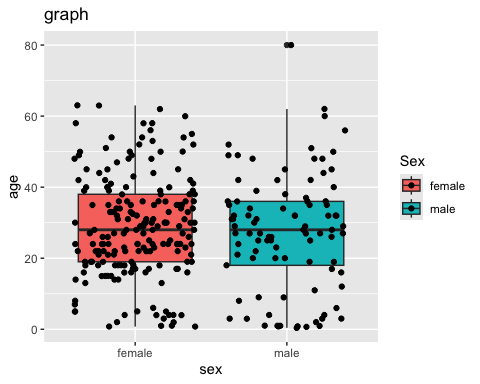
## Warning: `qplot()` was deprecated in ggplot2 3.4.0.  
## This warning is displayed once every 8 hours.  
## Call `lifecycle::last\_lifecycle\_warnings()` to see where this warning was  
## generated.

## Warning: Use of `table2$Sex` is discouraged.  
## ℹ Use `Sex` instead.

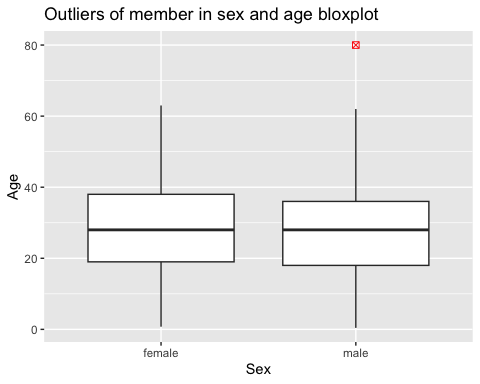
## Warning: Use of `table2$Age` is discouraged.  
## ℹ Use `Age` instead.

## Warning: Use of `table2$Sex` is discouraged.  
## ℹ Use `Sex` instead.

## Warning: Use of `table2$Age` is discouraged.  
## ℹ Use `Age` instead.

 #plot the number of Survived and age devided by sex.

ggplot (table2, aes(x = as.factor(Sex), y = Age)) +  
 geom\_boxplot(outlier.colour = "red", outlier.shape = 7, outlier.size = 2) +  
 labs(x = "Sex", y = "Age", title = "Outliers of member in sex and age bloxplot")



#plot the out liner with the red colour to show the member that out of the range.