assignment2

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## Install packages for summary

install.packages(“gt”) install.packages(“gtsummary”) install.packages(“dplyr”)

## Import Dataset  
library(readr)  
train <- read\_csv("~/GitHub/chu\_SIRE506/assign2/data/train.csv")

## Rows: 891 Columns: 12  
## ── Column specification ────────────────────────────────────────────────────────  
## Delimiter: ","  
## chr (5): Name, Sex, Ticket, Cabin, Embarked  
## dbl (7): PassengerId, Survived, Pclass, Age, SibSp, Parch, Fare  
##   
## ℹ Use `spec()` to retrieve the full column specification for this data.  
## ℹ Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

View(train)  
  
# create table of summary statistic  
library(gt)  
library(gtsummary)  
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

table1 <- train %>%  
 select(Survived, Age, Fare, Pclass, Sex, SibSp, Parch) %>%  
 tbl\_summary(  
 by = Survived,  
 label = list(  
 SibSp ~ "Number of siblings/spouses aboard",   
 Parch ~ "Number of parents/children aboard",  
 Pclass ~ "Ticket class"  
 ),  
 # Customize the summary statistics for numeric variables to show IQR  
 statistic = list(  
 all\_continuous() ~ "{median} ({IQR})"  
 )  
 ) %>%  
 modify\_header(label = "Variable") %>%  
 modify\_spanning\_header(all\_stat\_cols() ~ "Survival Status")   
  
 # Convert to gt table and add caption  
table1\_gt <- as\_gt(table1) %>%  
 tab\_caption(  
 caption = "Figure 1: Summary Statistic for Titanic by Survival Status"  
 )  
print(table1\_gt)

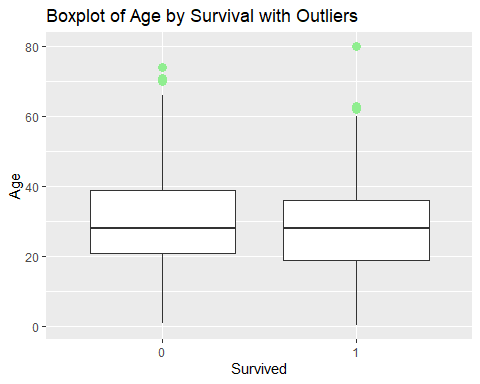
## <div id="klaqfompua" style="padding-left:0px;padding-right:0px;padding-top:10px;padding-bottom:10px;overflow-x:auto;overflow-y:auto;width:auto;height:auto;">  
## <style>#klaqfompua table {  
## font-family: system-ui, 'Segoe UI', Roboto, Helvetica, Arial, sans-serif, 'Apple Color Emoji', 'Segoe UI Emoji', 'Segoe UI Symbol', 'Noto Color Emoji';  
## -webkit-font-smoothing: antialiased;  
## -moz-osx-font-smoothing: grayscale;  
## }  
##   
## #klaqfompua thead, #klaqfompua tbody, #klaqfompua tfoot, #klaqfompua tr, #klaqfompua td, #klaqfompua th {  
## border-style: none;  
## }  
##   
## #klaqfompua p {  
## margin: 0;  
## padding: 0;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .gt\_caption {  
## padding-top: 4px;  
## padding-bottom: 4px;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .gt\_bottom\_border {  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .gt\_column\_spanner\_outer:first-child {  
## padding-left: 0;  
## }  
##   
## #klaqfompua .gt\_column\_spanner\_outer:last-child {  
## padding-right: 0;  
## }  
##   
## #klaqfompua .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%;  
## }  
##   
## #klaqfompua .gt\_spanner\_row {  
## border-bottom-style: hidden;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .gt\_from\_md > :first-child {  
## margin-top: 0;  
## }  
##   
## #klaqfompua .gt\_from\_md > :last-child {  
## margin-bottom: 0;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .gt\_row\_group\_first td {  
## border-top-width: 2px;  
## }  
##   
## #klaqfompua .gt\_row\_group\_first th {  
## border-top-width: 2px;  
## }  
##   
## #klaqfompua .gt\_summary\_row {  
## color: #333333;  
## background-color: #FFFFFF;  
## text-transform: inherit;  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #klaqfompua .gt\_first\_summary\_row {  
## border-top-style: solid;  
## border-top-color: #D3D3D3;  
## }  
##   
## #klaqfompua .gt\_first\_summary\_row.thick {  
## border-top-width: 2px;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .gt\_grand\_summary\_row {  
## color: #333333;  
## background-color: #FFFFFF;  
## text-transform: inherit;  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .gt\_striped {  
## background-color: rgba(128, 128, 128, 0.05);  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .gt\_footnote {  
## margin: 0px;  
## font-size: 90%;  
## padding-top: 4px;  
## padding-bottom: 4px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #klaqfompua .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;  
## }  
##   
## #klaqfompua .gt\_sourcenote {  
## font-size: 90%;  
## padding-top: 4px;  
## padding-bottom: 4px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #klaqfompua .gt\_left {  
## text-align: left;  
## }  
##   
## #klaqfompua .gt\_center {  
## text-align: center;  
## }  
##   
## #klaqfompua .gt\_right {  
## text-align: right;  
## font-variant-numeric: tabular-nums;  
## }  
##   
## #klaqfompua .gt\_font\_normal {  
## font-weight: normal;  
## }  
##   
## #klaqfompua .gt\_font\_bold {  
## font-weight: bold;  
## }  
##   
## #klaqfompua .gt\_font\_italic {  
## font-style: italic;  
## }  
##   
## #klaqfompua .gt\_super {  
## font-size: 65%;  
## }  
##   
## #klaqfompua .gt\_footnote\_marks {  
## font-size: 75%;  
## vertical-align: 0.4em;  
## position: initial;  
## }  
##   
## #klaqfompua .gt\_asterisk {  
## font-size: 100%;  
## vertical-align: 0;  
## }  
##   
## #klaqfompua .gt\_indent\_1 {  
## text-indent: 5px;  
## }  
##   
## #klaqfompua .gt\_indent\_2 {  
## text-indent: 10px;  
## }  
##   
## #klaqfompua .gt\_indent\_3 {  
## text-indent: 15px;  
## }  
##   
## #klaqfompua .gt\_indent\_4 {  
## text-indent: 20px;  
## }  
##   
## #klaqfompua .gt\_indent\_5 {  
## text-indent: 25px;  
## }  
##   
## #klaqfompua .katex-display {  
## display: inline-flex !important;  
## margin-bottom: 0.75em !important;  
## }  
##   
## #klaqfompua 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">  
## <caption>Figure 1: Summary Statistic for Titanic by Survival Status</caption>  
## <thead>  
## <tr class="gt\_col\_headings gt\_spanner\_row">  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_left" rowspan="2" colspan="1" scope="col" id="&lt;span class='gt\_from\_md'&gt;Variable&lt;/span&gt;"><span class='gt\_from\_md'>Variable</span></th>  
## <th class="gt\_center gt\_columns\_top\_border gt\_column\_spanner\_outer" rowspan="1" colspan="2" scope="colgroup" id="&lt;span class='gt\_from\_md'&gt;Survival Status&lt;/span&gt;">  
## <span class="gt\_column\_spanner"><span class='gt\_from\_md'>Survival Status</span></span>  
## </th>  
## </tr>  
## <tr class="gt\_col\_headings">  
## <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">Age</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">28 (18)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">28 (17)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    Unknown</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">125</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">52</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">Fare</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">11 (18)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">26 (45)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">Ticket class</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">    1</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">80 (15%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">136 (40%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    2</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">97 (18%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">87 (25%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    3</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">372 (68%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">119 (35%)</td></tr>  
## <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>  
## <tr><td headers="label" class="gt\_row gt\_left">Number of siblings/spouses aboard</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">    0</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">398 (72%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">210 (61%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    1</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">97 (18%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">112 (33%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    2</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">15 (2.7%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">13 (3.8%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    3</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">12 (2.2%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">4 (1.2%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    4</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">15 (2.7%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">3 (0.9%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    5</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">5 (0.9%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">0 (0%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    8</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">7 (1.3%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">0 (0%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">Number of parents/children aboard</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">    0</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">445 (81%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">233 (68%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    1</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">53 (9.7%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">65 (19%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    2</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">40 (7.3%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">40 (12%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    3</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">2 (0.4%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">3 (0.9%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    4</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">4 (0.7%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">0 (0%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    5</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">4 (0.7%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">1 (0.3%)</td></tr>  
## <tr><td headers="label" class="gt\_row gt\_left">    6</td>  
## <td headers="stat\_1" class="gt\_row gt\_center">1 (0.2%)</td>  
## <td headers="stat\_2" class="gt\_row gt\_center">0 (0%)</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 (IQR); n (%)</span></td>  
## </tr>  
## </tfoot>  
## </table>  
## </div>

# create boxplot

install.packages(“ggplot2”)

library(ggplot2)  
# create boxplot of age by survival with outliers  
boxplot\_age <- ggplot (train, aes(x = as.factor(Survived), y = Age)) +  
 geom\_boxplot(outlier.colour = "lightgreen", outlier.shape = 16, outlier.size = 3) +  
 labs(x = "Survived", y = "Age", title = "Boxplot of Age by Survival with Outliers")  
print(boxplot\_age)

## Warning: Removed 177 rows containing non-finite outside the scale range  
## (`stat\_boxplot()`).



# create boxplot of fare by survival with outliers  
boxplot\_fare <- ggplot (train, aes(x = as.factor(Survived), y = Fare)) +  
 geom\_boxplot(outlier.colour = "lightslateblue", outlier.shape = 16, outlier.size = 3) +  
 labs(x = "Survived", y = "Fare", title = "Boxplot of Age by Survival with Outliers")  
print(boxplot\_fare)

