1. Import the Titanic Dataset from the link Titanic Data Set.

Perform the following:

1. a. Is there any difference in fares by different class of tickets?

Note - Show a boxplot displaying the distribution of fares by class

## PART III: Passenger Class and Fare

# Fare

fare <- titanic$fare

# we have fare data for most of the passengers in the data set

length(fare); index<-which(!is.na(fare)); fare<-fare[index]; length(fare)

hist(fare,50,col="blue",freq=FALSE, main="Ticket Fare")

1. b. Is there any association with Passenger class and gender?

Note – Show a stacked bar chart

> library(ggplot2)

> library(readr)

> library(dplyr)

> library(tidyr)

> library(forcats)

titanic <- read\_csv("~/Downloads/titanic\_data.csv")

titanic <- mutate(titanic,

+passenger.class = fct\_recode(as.factor(pclass),

+"1st" = "1", "2nd" = "2", "3rd" = "3")

count(titanic, passenger.class)

ggplot(titanic) +

+geom\_bar(aes(x = passenger.class))